V-Ideas

Program: Information Technology

(NBA Accredited)

2021-2022

Be sure with

Vidyalankar

Since 1960
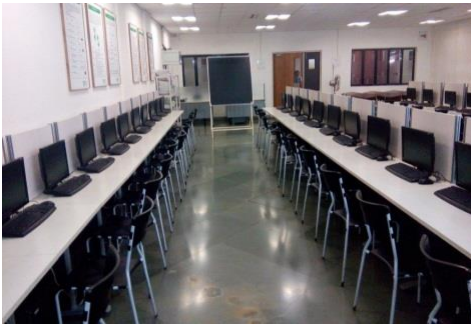
Preface

- **Vidyalankar is a 'Sanskrit' word combining two words Vidya + Alankar. Where Vidya means knowledge and Alankar means Ornament, the essence being that 'knowledge is the true ornament of a progressive mind'.**

- **Vidyalankar Polytechnic is one of the leading college in Mumbai, approved by AICTE, DTE Maharashtra State and Affiliated to MSBTE. It offers under graduate courses in engineering**

- **Vidyalankar Polytechnic was established by Vidyalankar Dyanapeeth Trust in 2002 under the dynamic leadership of Shri. C. S. Deshpande with the aim of imparting Technical Education in various fields of Engineering and Technology. It is located at the heart of Mumbai at Wadala(E).**

- **Courses offered are Computer Engineering, Information Technology, Electronics and Telecommunication Engineering.**

- **The college has excellent infrastructure for Class rooms, Technical library, Laboratories and latest computing facilities.**

Vidyalankar Polytechnic

Vision

To achieve excellence in imparting technical education so as to meet the professional and societal needs.

Mission

- Developing technical skills by imparting knowledge and providing hands on experience.
- Creating an environment that nurtures ethics, leadership and team building.
- Providing industrial exposure for minimizing the gap between academics and industry.

Principal Speak

**Prof. Ashish Ukidve, Principal
Vidyalankar Polytechnic**

Vidyalankar Polytechnic has always believed in providing quality technical education to the student who aspire to become skilled engineers .

We at Vidyalankar put forth for students a challenging ground; tracking them to learn and imply in their career and professional future. Emphasizing to skill and develop their opportunity to widen their innovative horizon.

V-Ideas is compilation of final year student's project ideas that have been processed and developed after fine scrutinizing and tuning by subject expertise. The selected projects were much appreciated by the judges boosting the morale of students.

Technovation the exploration of Technology and Innovation is the annual project exhibition and competition organised by Vidyalankar Polytechnic for final year students of various branches. Technovation enables students to exhibit and display their innovative skills, thus giving them an opportunity to manifest their hidden skills and ideas. This platform has privileged the students to think in new areas of their skills and present it in the best possible way.

Chief Technology Officer (CTO) Speak

Prof. Anjum Mujawar, CTO
Vidyalankar Polytechnic

"A project is complete when it starts working for you rather than you are working for it"

-Scott Allen

The capstone project is designed to consolidate final-year students' learning with valuable hands-on experience to help develop them into well-prepared and well-rounded graduates. It provides them an opportunity to use tools and techniques and implement methods. The capstone project encompasses a real-life working culture which aims to instill a set of specific skills that are both highly valued by employers and will ultimately serve students well into their careers.

To complete the project, students need to plan, estimate, and manage their time and energy. Students deepen their knowledge across disciplines and work effectively in teams while engaging professionally with their peers and professors. Solving real industrial problems is encouraged and facilitated by project guide.

We, at Vidyalankar, provide all the required facilities to complete their project. We also promote industry institute interaction by assigning industry-based problems in the form of project to our students.

V-ideas culminates V-Technovation 2022

"All of us do not have equal talent. But , all of us have an equal opportunity to develop our talents." - A.P.J Abdul Kalam

Vidyalankar Polytechnic has always believed in inculcating a synergetic and academic culture in its students, one that encourages them to be innovative and to be passionate about taking their ideas ahead.

V-Ideas are a collection of the final year project ideas of our students that have been nurtured after much rational thinking, fine-tuning and accurate reflection from teachers, guides and subject experts. The ideation stage is quite different from actual implementation; it is comparable to the transition from form to format, the regulated flow of ink from a nib which produces the actual writing. The Institute initiated an innovative idea of assembling the project ideas and transferring them into a hardcover book known as V-Ideas. This collection of projects acts as a future reference for First, Second and Third year students.

As a part of curriculum, students of diploma undertake a project related to their field and demonstrate the knowledge and skills gained on the subject of their choice. Students also take industry based projects for better and live exposure with the industry. The projects selected by the panel of experts are regularly monitored by the project guides. The innovative and creative projects are projected in V-Technovation. The projects won many awards at various competitions at other institutes.

V-Technovation provides a platform to diploma students to compete, interact and excel.

Program: Information Technology

Vision

To become a leading center in the domain of Information Technology where learners are introduced to the concepts and implementation of technologies.

Mission

- Encouraging academic excellence and a passion for learning through the use of learner-oriented teaching methodologies.
- Providing an environment that inculcates ethics and effective soft-skills and focuses on the development of learners.
- Establishing and reinforcing a symbiotic institute-industry interface so that learners can gain exposure to real-life applications of Information Technology.

Program Educational Objectives

- **PEO 1:** Provide socially responsible, environment friendly solutions to Information technology related broad-based problems adapting professional ethics.
- **PEO 2:** Adapt state-of-the-art Information Technology broad-based techniques to work in multi-disciplinary work environments.
- **PEO 3:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

Program Outcomes

PO1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2. Problem analysis: Identify and analyze well-defined engineering problems using codified standard methods.

PO3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

Program Outcomes

PO5. **Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7. **Life-long learning:** Ability to analyze individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes

PSO 1. Modern Information Technology:

Use latest technologies for operation and application of information.

PSO 2. Information Technology Process:

Maintain the information processes using modern information and communication technologies.

Program: Information Technology

Area ID	Project Area	Project ID	Project Title	Page No.
IF1	Mobile Application	IF1.1	Paws - The stray animal help app	1
		IF1.2	Let's Talk	2
		IF1.3	EV Charging Station Locater	3
		IF1.4	Bike Rent App	4
		IF1.5	Beauty Salon Application	5
		IF1.6	WealthX	6
		IF1.7	Mobile Accessories store	7
		IF1.8	Mechanic Finder	8
		IF1.9	Runathon	9
		IF1.10	All Fit	10
		IF1.11	Bhook -Waste Food Management System	11
		IF1.12	Society security system	12

Program: Information Technology

Area ID	Project Area	Project ID	Project Title	Page No.
IF2	Artificial Intelligence /Machine Learning	IF2.1	FemTech	13
		IF2.2	Maps Data Scraper	14
		IF2.3	Smart Attendance Management System Using Face Recognition	15
		IF2.4	AI Virtual Mouse	16
		IF2.5	AI Based Vidyalankar Guide & Assistant	17
		IF2.6	Melanoma Detection Using Deep Learning	18
		IF2.7	Smart Street Pole	19
IF3	Image Processing	IF3.1	Drowsiness and Seat-Belt Detection	20
IF4	Internet of Things	IF4.1	Smart Blind Stick	21
		IF4.2	Air pollution monitoring system	22

Program: Information Technology

Area ID	Project Area	Project ID	Project Title	Page No.
IF4	Internet of Things	IF4.3	Automation of Water Supply	23
		IF4.4	Smart gas leakage detector system	24
		IF4.5	Smart Gate Entry	25
		IF4.6	Arduino based password door-lock	26
		IF4.7	Smart bicycle	27
		IF4.8	Anti Sleep Alarm for Drivers	28
		IF4.9	Contactless temperature monitoring gate	29
		IF4.10	Smart waste management	30
IF5	Web Application	IF5.1	Freshpiry – Organic Product Expiry Tracking	31
		IF5.2	Coding Expert -Programming Learner Kit	32
		IF5.3	Live Life Nursary	33

Program: Information Technology

Area ID	Project Area	Project ID	Project Title	Page No.
IF5	Web Application	IF5.4	Manisha Mahila Griha Udyoug WebApp	34
		IF5.5	QuickKart	35
		IF5.6	Online Bakery Shop	36
		IF5.7	Digital menu card for restaurants using QR code	37
		IF5.8	Fingerprint online voting system	38
		IF5.9	Online Outfit Store	39
		IF5.10	Online Bookshop	40
		IF5.11	Health and fitness club management	41
		IF5.12	Online Grocery Shop	42
		IF5.13	Web Scraper For LinkedIn	43
		IF5.14	Online Vehicle Parking	44

Program: Information Technology

Area ID	Project Area	Project ID	Project Title	Page No.
IF6	Web Application	IF5.15	Hospital Management System	45
		IF5.16	Fake News detection	46
		IF5.17	Student Portal	47
		IF5.18	Smart CCTV	48
		IF5.19	E -Toll system	49
		IF5.20	Pharmacy Management	50
		IF5.21	Movie Ticket Booking	51
		IF5.22	Online Video directing for entrepreneur	52
IF6	Wireless	IF6.1	Li-Fi technology	53
IF7	Security	IF7.1	Computer Security Learning Kit	54
		IF7.2	Spy-Crop	55
IF8	Blockchain	IF6.1	Decentralized grading system on Blockchain	56

Program : Information Technology

Project Title : Paws – The stray animal help app

Domain : Mobile Application

Name of Project Guide : Er. Yogita Jore

Name of Students : 19202A0026 **–** Vaibhav Gangurde

19202A0018 – Jay Mhatre

19202A0036 – Uday Kawde

19202A0003 – Tanay Chavan

Brief idea of project:
We have designed an app named "PAWS APP" which is totally useful and helpful for animal welfare and their protection. The app can be used by the common citizens as well as government officials and the NGO's. There are many uses of the app in different ways like - if there is any emergency, If anyone wants to adopt any animal or if people want to share some things about their pets or animals.

Screenshots of the Project
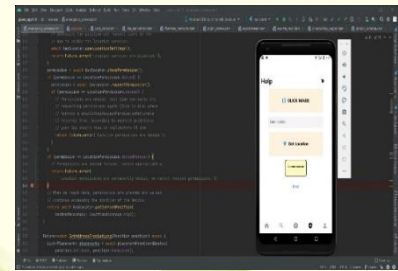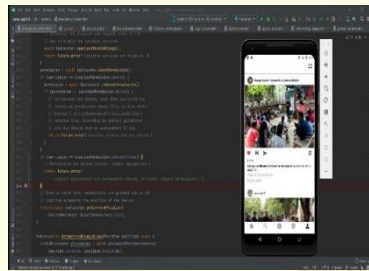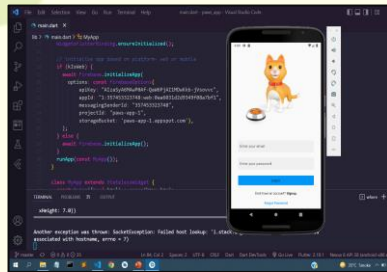
Applications:
- Emergency help for stray animals.
- Community for animal owners

Program : Information Technology

Project Title : Let's Talk

Domain : Mobile Application

Name of Project Guide :	Er. Archana Gopnarayan
Name of Students :	19202A0004 **-** Shruti Patil
	19202A0005 - Amrita Pawar
	19202A0010 - Aditi Chavan
	19202A0052 - Manali Chavan

Brief idea of project:

The community will be full of people who are dealing with Mental health issue and needed somewhere safe to talk. Let's Talk app is here for user through the shiny and the muck, which can really lift user. Let's Talk can be safe place to talk about any struggles and reach support across many areas including, anxiety, self-harm, living with depression, loneliness, , and many more.The features this app holds are exceptional feature such as Breathing Exercises, with that we have also included some yoga Posture and Articles which are mend for the individual mental stability.

Screenshots of the Project
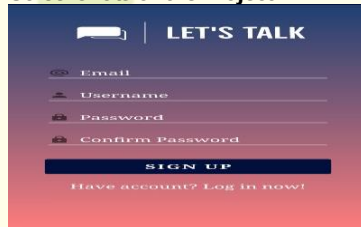
Applications :

- This application will benefit people suffering from anxiety, depression, drug addicts and mental health issues.
- Also beneficial for those who are unable to express their thoughts to others.

Program : Information Technology

Project Title : EV Charging Station Locater

Domain : Mobile Application

Name of Project Guide : Er. Servesh Gupta

Name of Students : 19202A0029 - Rohan Chavan

19202A0030 - Sahil Gaikar

19202A0032 - Sahil Bhingare

19202A0040 - Devang Patankar

Brief idea of project:

Whether you're driving around town or planning a road trip in your electric vehicle (EV), you are probably looking for an easy way to find charging station. Luckily, there are several apps to choose from that can help you charge your EV and get where you need to go. Whether you need to search by connector type, charging speed, distance from a hotel or want information from other users, there is an EV charging app for you.

Screenshots of the Project
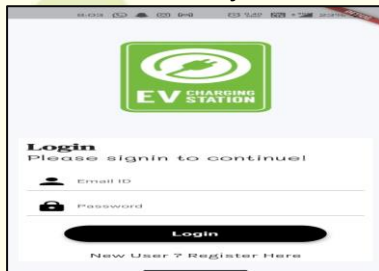
Applications:

• For providing information and find near by Electric charging station .

Program : Information Technology

Project Title : Bike Rent App

Domain : Mobile Application

Name of Project Guide : Er. Chetashri Bhushari

Name of Students : 19202B0052 - Dhruvin soni

19202B0057 - Dishant Rajpurohit

19202B0058 - Sakshi Suryawanshi

20202A0008 - Satvik Satam

Brief idea of project:

Its is a mobile based application which will help people to explore and get the type of 2 –wheeler they want on rent. This will help tourist to get the vehicle at their desired location at their desired time.

Screenshots of the Project
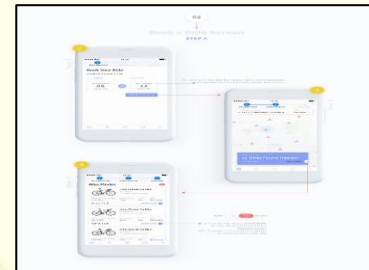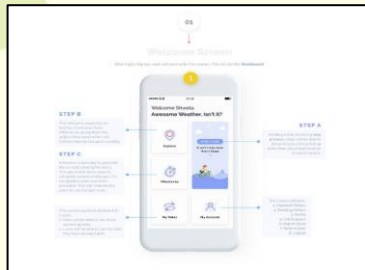
Applications:

- It will be used in the case of traffic jams.
- Helpful for tourists.

Program : Information Technology

Project Title : Beauty Salon Application

Domain : Mobile Application

Name of Project Guide : Er. Yogita Jore

Name of Students : 19202B0045 **–** Suyash Thale

19202B0049 – Shreyas Deshmukh

19202B0050– Yash Kharkar

19202B0019 – Rishabh Trivedi

Brief idea of project:

A Mobile Application which can be used to book an appointment to experience the services offered by our salon. Modules of this Application- Appointment booking and Scheduling, etc. Firebase is used for creating database and java is used as programming language.

Screenshots of the Project
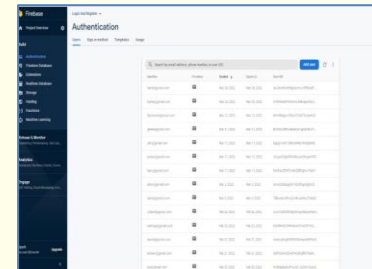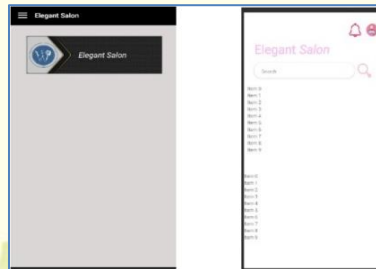
Applications:

• Beauty Salon Appointment booking

Program : Information Technology

Project Title : WealthX

Domain : Mobile Application

Name of Project Guide : Er. Prerana Jalgaonkar

Name of Students : 19202B0020 – Wilma Alex
19202B0021 – Avantika Pawar

Brief idea of project:

Wealthx is a way that can help us to keep up with our spending. It is a mobile application that can keep track user's expenses. Users need to input the required data such as the expense amount, mode and date when the expense was made. This application will help users cut down the unrequired expenses, and thus will help provide a responsible lifestyle.

Screenshots of the Project

Applications:

- Useful for university or school going students, teachers, bachelors, doctors, delivery guy, etc.
- Useful for small business owners/entrepreneurs for financial planning.

Program : Information Technology

Project Title : Mobile Accessories Store

Domain : Mobile Application

Name of Project Guide : Er. Chetashri Bhusari

Name of Students : 19202B0046 - Harsh Chavan

19202B0039 - Siddesh Shewale

18202B0033 - Ameya Vaidya

19202B0029 - Mahesh Jadhav

Brief idea of project:
Mobile accessories store is a project based on Web or Mobile App. It provides customer a wide range of products/gadgets for mobile devices including tech and computer devices.

Screenshots of the Project
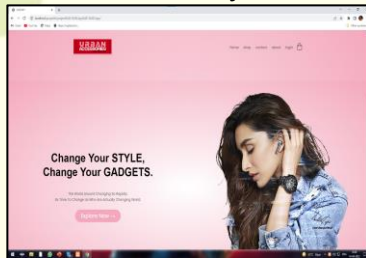
Applications:
- Online Shopping

Program : Information Technology

Project Title : Mechanic Finder

Domain : Mobile Application

Name of Project Guide : Er. Prerana Jalgaonkar

Name of Students : 19202C0007 - Jazlan Naik

19202C0016 – Arman Shaikh

19202C0023 – Bilal Khan

19202C0019 – Pratik Baile

Brief idea of project:
In a breakdown its hard to find a mechanic and get back on the road. This app is designed that will help the user to avail help by using the application and get access to the nearby mechanic and thereby contact them.

Screenshots of the Project:

Applications:
• Vehicle Breakdown Assistance

Program : Information Technology

Project Title : Runathon

Domain : Mobile Application

Name of Project Guide : Er. Sridevi Patil

Name of Students :
19202C1004 – Harshad Raut

19202C1005 – Anujkumar Yadav

19202C1007 – Akash Gonal

Brief idea of project:
Runathon is mobile application designed specially for fitness concern. It also help to track their calories while running. It tracks user location using GPS. We have used MVVM industry level pattern to build our app so it can be easily scalable.

Screenshots of the Project:
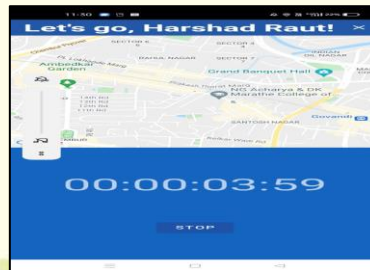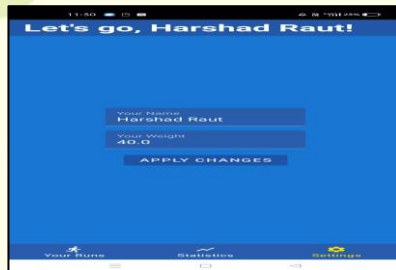
Applications:
- Health and Fitness
- Tracking Running activities

Program : Information Technology

Project Title : All Fit

Domain : Mobile Application

Name of Project Guide : Er. Ketan Bagade

Name of Students : 19201C0039- Bhagyashree Galag

19202C0041-Akshata Kuldev

Brief idea of project:

The fitness app is very useful app from which we can maintain our healthy body and we can stay fit n fine we added some features in fitness app such like we have set the timer and different types of age catogries and if anyone will miss their exercise so the timer will alert them that they must start their exercise and fitness is very important to maintain good healthy body.

Screenshots of the Project
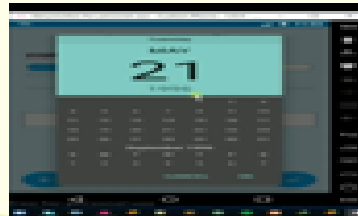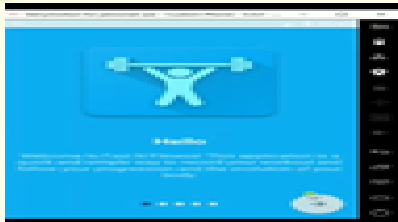
Applications:

• Gym and Fitness centers

Program : Information Technology

Project Title : Bhook-Waste Food Management

Domain : Mobile Application

Name of Project Guide : Er. Sunil Dodake

Name of Students : 19202C0004 - Prabhakar Morajkar

19202C0013 - Ganesh Naidu

Brief idea of project:

Bhook –waste food Management is a Mobile application in which we can donate and receive leftover foods, android studio is been used to make this app. Modules of this application includes- home, login , register , donate and receive etc. MySQL is used for creating database and java is used as programming language.

Screenshots of the Project

Applications:

•   The donator can donate food with the information of store.

•   Receiver can receive food from the Donator.

Program : Information Technology

Project Title : Society Security System

Domain : Mobile Application

Name of Project Guide : Er. Yogita Jore.

Name of Students : 19202C0035 – Sagar Dagle.

19202C0031 - Om Darekar.

Brief idea of project:

If the user wants to use this application, then they need to first login into the application then only they can use this application. Admin can add user personal information. In the delete user, admin can delete a particular user. In the add regular visitor, admin can add regular visitors like milkman, paper man. In the see request, user can see new visitor request. For a particular new visitor user have permission like approve, deny and block the request.

Screenshots of the Project
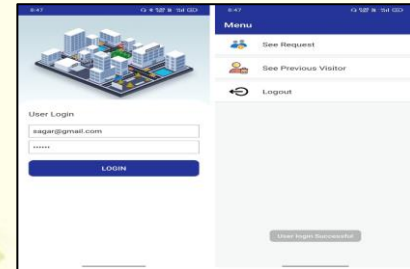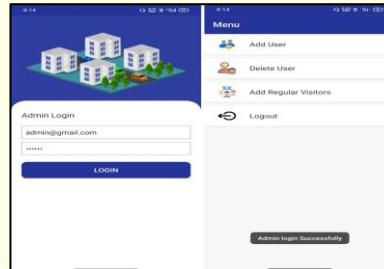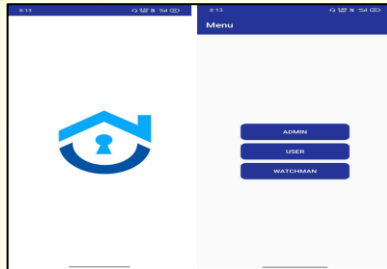
Applications:

- The project is kept track of visitor information for society.
- Daily notices, monthly meetings, cultural Events, miscellaneous contacts for daily needs for society.

Program : Information Technology

Project Title : FemTech

Domain : Artificial Intelligence

Name of Project Guide : Er. Archana Gopnarayan

Name of Students :
19202A0017 – Asmika Panchal

19202A0019 – Shrinidhi Dharap

19202A0038 – Rahul Chaudhari

19202A0048 – Soham Lad

Brief idea of project:

"FemTech" is a menstrual health tracker application to track and analyze menstrual cycle. It provides informative articles on menstrual health and disorders. It provides the users with nearby gynecologists and pharmacy contact details. The app predicts the next menstrual cycle date using 28 Days + Last menstrual date loop and predicts the next menstrual cycle symptoms using Weighted Average Algorithm.

Screenshots of the Project

Applications:

- Educate young women on menstrual health
- Spread awareness through our app totally free of subscription fee.

13

Program : Information Technology

Project Title : Maps Data Scraper (Industry Project by - Sahu Technologies)

Domain : Artificial Intelligence

Name of Project Guide	:	Er. Sridevi Patil, Er. Sushma Pawar
Name of Students	:	19202A0047 - Shourish Kothawale
		19202A0011 - Shubham Jadhav
		19202A0054 - Shishir Nath
		19202A0006 - Piyush Nirbhavane

Brief idea of project:

Provide a solution to this problem we will create a data/web scraper for Google Maps for providing different kinds of data like name, phone, website etc. Web Scrapers allow to find specific data on the internet and then export them into spreadsheets like Microsoft Excel sheet or a CSV file. Web Scrapers are created to extract personalized data hence this project will focus on extracting data through the Google Maps website.

Screenshots of the Project
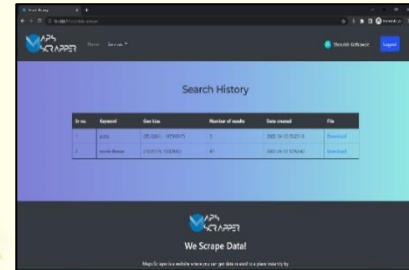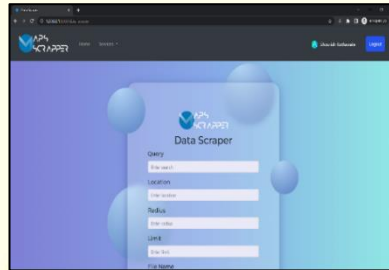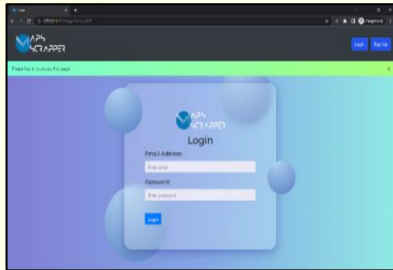
Applications:

• Lead Generation and Data Analysis
• Training and Testing Data for Machine Learning Projects

Program : Information Technology

Project Title : Smart Attendance Management System Using Face Recognition

Domain : Artificial Intelligence

Name of Project Guide : Er. Chetashri Bhusari

Name of Students :

20202A0012 – Suyash Gharat

20202A1001 – Akhilesh Nikhare

20202A1002 – Rushikesh Mhatre

20202A1006 – Smita Shukla

Brief idea of project:

The main purpose of this project is to build a face recognition-based attendance monitoring system for educational institution to enhance and upgrade the current attendance system into more efficient and effective as compared to before. In this project, face databases will be created to pump data into the recognizer algorithm. Then, during the attendance taking session, faces will be compared against the database to seek for identity. When an individual is identified, its attendance will be taken down automatically saving necessary information into a excel sheet. Use of face recognition for the purpose of attendance marking is the smart way of attendance management system.

Screenshots of the Project

Applications:

- In Health care sector for Access Control .
- In Airport security systems that use face recognition technology for passengers and staff.

Program :Information Technology

Project Title : AI Virtual Mouse

Domain : Artificial Intelligence

Name of Project Guide : Er. Archana Gopnarayan

Name of Students : 19202B0001 **-** Krunal Nikam

19202B0011 - Musharraf Mulla

19202B0035 - Aditya Bhosale

19202B0048 - Faiz Shaikh

Brief idea of project:

The mouse is one of the wonderful inventions of Human-Computer Interaction (HCI) technology. Currently, wireless mouse or a Bluetooth mouse still uses devices and is not free of devices completely since it uses a battery for power and a dongle to connect it to the PC.

Screenshots of the Project
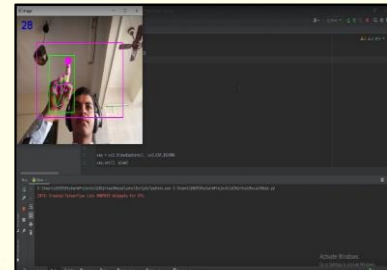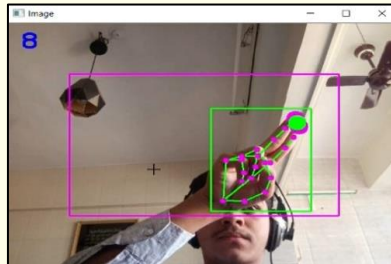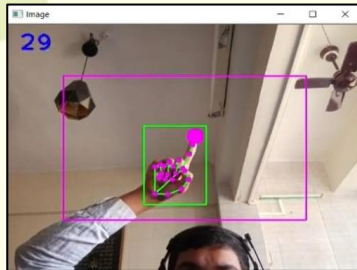
Applications:

- To design a virtual input that can operate on all surfaces.
- The system can be used to control robots and automation systems without the usage of devices.

Program : Information Technology

Project Title : AI Based Vidyalankar Guide & Assistant

Domain : Artificial Intelligence

Name of Project Guide : Er. Sushma Pawar

Name of Students : 19202B0026 - Shri Dhanush Dappili

19202B0016 - Shlok Anchan

19202B0031 - Hardik Gawde

19202B0033 - Viraj Pande

Brief idea of project:

AI Based Vidyalankar Guide Assistant is AI Technology based software system which is specially designed for our VIT campus, and it will tell the correct route to the destination you are searching for. It will help to find the place by co-ordinating with you in the form of voice which will be installed in the software. This software will not only act as a guide of that place but also be useful in working in the same way as Google Assistant, Alexa, SIRI, Microsoft Cortana etc which will be more interactive and make the app anxious in using it.

Screenshots of the Project
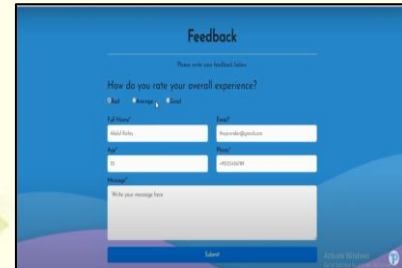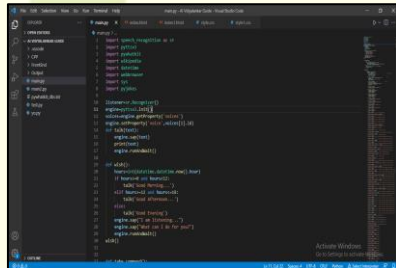
Applications:
• Campus Automation

Program : Information Technology

Project Title : Melanoma Detection Using Deep Learning

Domain : Artificial Intelligence

Name of Project Guide :	Er. Prerana Jalgaonkar
Name of Students :	19202B0023 – Sayali Shimpi
	19202C0010 – Siddharth Suyal
	19202C0019 – Gaurav Kambli
	19202C0020 – Harshkumar Pasi

Brief idea of project:

The Melanoma Detection Model is a reliable predictor with an excellent balance between overall accuracy of 0.904 for early detection of the disease. The aim of this project is to determine the accurate prediction of Melanoma skin disease. The pre-processing steps were carried out which followed Hair removal, shadow removal, glare removal and segmentation of Deep Neural networks will be used to classify. The novelty of the present methodology is that it should do the detection in very quick time hence aiding the technicians to perfect their diagnostic skills.

Screenshots of the Project

Applications:

- This model can help the physicians and dermatologists in early detection of melanoma.
- This project can contribute to the future improvisation in artificial intelligence and as health-tech contributed to the society welfare.

Program : Information Technology

Project Title : Smart Street Pole

Domain : Machine Learning

Name of Project Guide : Er. Archana Gopnarayan

Name of Students :

19202B0014 – Madhushreeya Dhuri

19202B0034 – Shruti Maharana

19202B0063 – Shehzeen Sayed

19202B0064 – Sainath Gounder

Brief idea of project:
In this project, we use an image processing-based method for vehicle speed detection wherein a given recorded video, speed is calculated. If the speed of the vehicle exceeds the given speed limit, then the image of the vehicle is captured, and the number plate is detected. Once the image is captured, image segmentation methods are used for the number plate detection of vehicles.

Screenshots of the Project

Applications:
• School gates
• Traffic Signals , Highways , Colony's

Program : Information Technology

Project Title : Drowsiness and Seat-Belt Detection

Domain :   Image Processing

Name of Project Guide : Er. Prerana Jalgaonkar

Name of Students : 19202B0005 – Nisarg Shah

19202B0030 – Varad Chopdar

19202B0059 – Abhijit Patil

19202B0060 – Harsh Patil

Brief idea of project:
Road accidents is a global tragedy with number of cases increasing year by year. Owing bad infrastructure and dangerous driving habit. In this project, we are making a system which can help driver and provide some necessary alert, so that it reduces the chance of accidents.

Screenshots of the Project
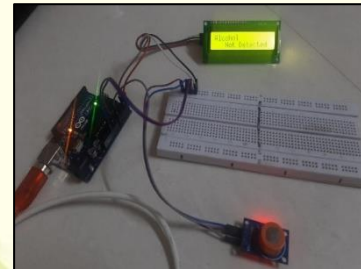
Applications:
- We can integrate it into any vehicle be it car, truck, tempo, buses, etc.
- Using automation all the indications will be provided by the device for the person's safety.

Program : Information Technology

Project Title : Smart Blind Stick

Domain : Internet of Things

Name of Project Guide : Er. Servesh Gupta

Name of Students :
19202A0021 - Nikhil Sable
19202A0028 - Durwa Gawde
19202A0055 - Zeenat Mujawar
19202A0071 - Vaidehi Lanjekar

Brief idea of project:

Technologies are growing very fast, which helps people to get a better and easier life. The Smart Blind Stick for the blind as the name suggests is a device for the visually impaired to guide the user to respective destination and avoiding to collide with the obstacles along with that it can also perform other functions like detect the presence of water, sending an emergency message along with the current location of the blind to their caretaker.

Screenshots of the Project
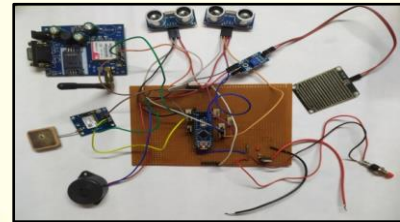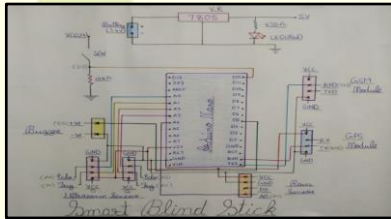
Applications:

- The functioning of the Smart Blind Stick is based on sensors which are automatic so they can use the functions easily.
- This stick facilitates the visually-impaired people through various user-friendly features such as water detection, navigation, obstacle alert and communication.

Program : Information Technology

Project Title : Air pollution monitoring system

Domain : Internet of Things

Name of Project Guide : Er. Servesh Gupta

Name of Students

: 19202A0056 - Mrunmayee Acharekar

9202A0062 - Aryan Kapadi

19202A0066 - Abdullah Khan

19202A0034 - Divya Rane

Brief idea of project:

Auto-services is a website which can be used to call a mechanic to our place, get nearby mechanic if stranded in road. Modules of this website includes- home, services, Insurance, etc. MySQL is used for creating database and php is used as programming language. HTML is used for User Interface designing. Air pollution monitoring system is an IoT based device which can be used at home or industrial places to monitor air. It can monitor gas, humidity and dust. One can check the output through a web application. We have used Microsoft SQL server for database and C# for programming. Designing of webpage is done using html, css and asp.net

Screenshots of the Project
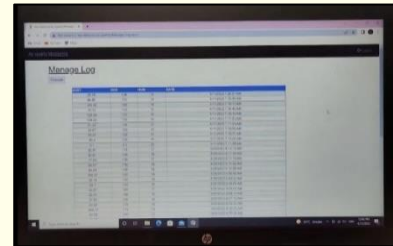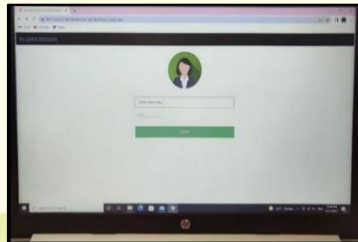
Applications:
- Indoor air quality monitoring.
- Industrial perimeter monitoring.

Program : Information Technology

Project Title : Automation of water supply

Domain : Internet of Things

Name of Project Guide :	Er. Kalyani Pawar
Name of Students :	19202A0041 - Maithili Pawar
	18202A0040 - Darshana Tambe
	19202A0035 - Divesh Tawre
	19202A0033 - Sakshi Gavand

Brief idea of project:

The main aim of our project is to control the water supply. Here we have used Arduino board for controlling the system. This will make the system more efficient for signal and information passing. Our project proposes an economic, efficient, eco-friendly system for controlling the corporation water supply. The advantages by our project are time management, can reduce wastage of water. The system is designed by applying an ultrasonic sensor, an automatic switch module, a water flow sensor, an Arduino TM microcontroller, and a pumping machine in order to automatically switch the water filling.

Screenshots of the Project
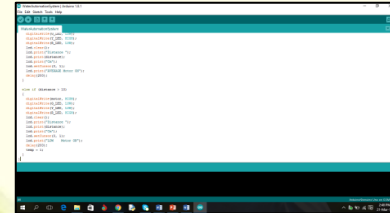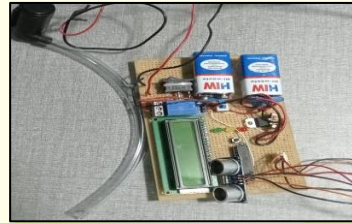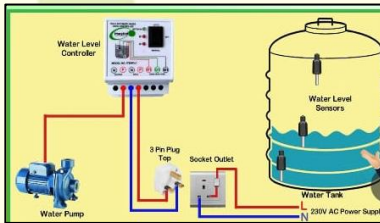
Applications:

*   Load Balancing: The system will be available only for one user or in one tank at a time.
*   Easy Accessibility. Records can be easily accessed and store and other information, respectively.
*   User Friendly: The System will be giving a very user-friendly approach for all user.

Program : Information Technology

Project Title : Smart gas leakage detector system

Domain : Internet of Things

Name of Project Guide :	Er. Trupti Dudhat
Name of Students :	19202A0046 - Adin Raja
	20202A1003 – Qureshi Moinahmed kudus
	20202A1004 – Qureshi Naushin kudus
	20202A1005 – Bhintade Omkar

Brief idea of project:

This system includes Gas Leakage Detector using GSM & Arduino with SMS Alert. We had interfaced Sim800 GSM Module as well as MQ135 Gas Sensor with Arduino. The gas level value will be displayed on the 16x2 LCD Display. Whenever the excess gas is detected, SMS will be sent to a particular phone number.

Screenshots of the Project
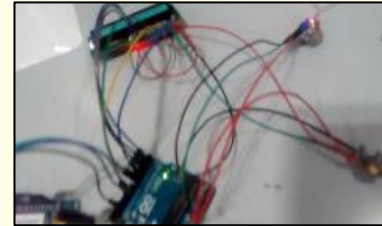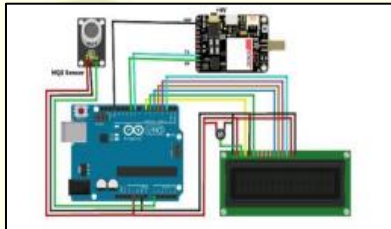
Applications:
- Used in Kitchen
- Used in Restaurants

Program : Information Technology

Project Title : Smart Gate Entry

Domain : Internet of Things

Name of Project Guide : Er. Trupti Dudhat

Name of Students :

19202C0024 - Shubham Gavhane

19202B0061 - Samruddhi Jambhavdekar

19202B0054 - Manpreet Chandok

Brief idea of project:
Smart Gate Entry is a project based on IOT. It detects the temperature of people entering the premises and gives a count of people entered in the premises.

Screenshots of the Project
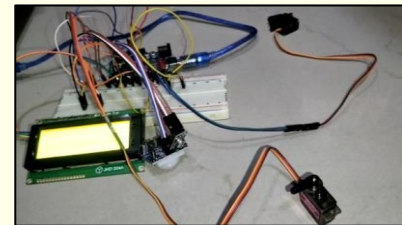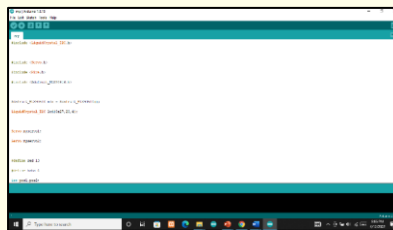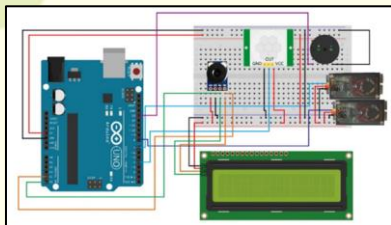
Applications:
- Institutes
- Offices

Program : Information Technology

Project Title : Arduino based Password Door Lock.

Domain : Internet of Things

Name of Project Guide : Er. Shonal Vaz

Name of Students :

19202C0015 - Steven Sawant

19202C0017 - Kaustubh Angre

19202C0018 - Sagar Surve

Brief idea of project:
The need of improving the modern security systems in homes, offices and other buildings for the protection of lives and properties. The design of a simple digital door lock is demonstrated considering all the components and their different functions and importance. Is also analyses the disadvantages and advantages of using digital door lock. The simplicity of the system on both the hardware and the software makes it easy and preferable for the security of lives and properties.

Screenshots of the Project
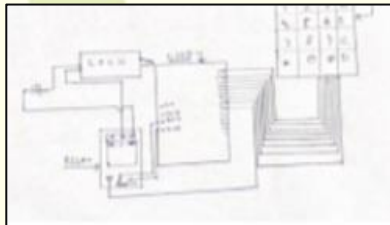
Applications:
• Home Use
• Office Use

Program : Information Technology

Project Title : Smart Bicycle

Domain : Internet of Things

Name of Project Guide	:	Er. Trupti Dudhat
Name of Students	:	19202B0002 - Ashwini Kurade
		19202B0004 - Soham Thorat
		19202C0003 - Sahil Khetan
		19202C0036 - Jainil Gohil

Brief idea of project:

The system consists of 2 key components, the Pir sensor and Arduino Pro mini . Using The pir sensor we can be able to control the headlights of the cycle you can also control the headlights as a blinker. We had also implemented led Button indicators and Brakes into our project.

Screenshots of the Project
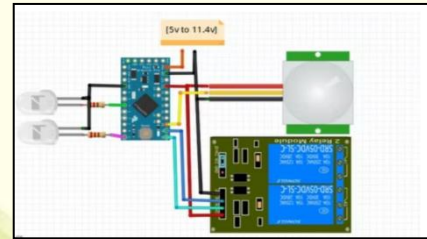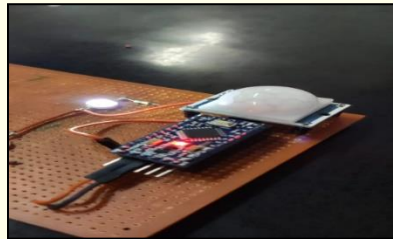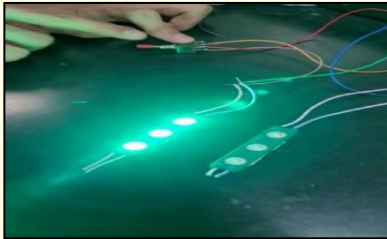
Applications:
- Cell Phones
- TV remote

Program : Information Technology

Project Title : Anti Sleep Alarm for Drivers

Domain : Internet of Things

Name of Project Guide : Er . Kalyani Pawar

Name of Students :

19202C0029 - Musaib Shaikh

19202C0002 - Prathamesh Khetal

Brief idea of project:
The goal of this project is to develop a system that can accurately detect sleepy driving and make alarms accordingly, which aims to prevent the drivers from drowsy driving and create a safer driving environment. The project was accomplished by a Piezo buzzer, Battery, IR Sensor and Arduino nano that will detect the sleepy driver and give a feedback circuit that could generate alarm and a power supply system.

Screenshots of the Project :
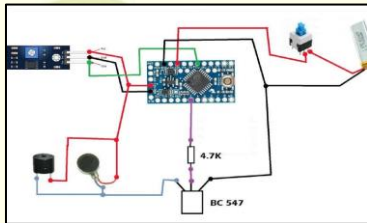
Applications:
- The Anti-sleep alarm is an application to keep car drivers awake. Although it was designed for car drivers, it can also be used in any other situation where you need to stay awake.

Program : Information Technology

Project Title : Contactless Temperature Monitoring Gate.

Domain : Internet of Things

Name of Project Guide :	Er. Kalyani Pawar
Name of Students :	19202C0001 – Balraj Sonavane
	19202C0026 – Athrav Saigaonkar
	19202C0028 – Kaushik Donde
	19202C0034 – Omkar Chiplunkar

Brief idea of project:
Our con-tactless temperature sensoring gate can be used In mall, hospital shops etc. The main aim is that to measure the body temperature of human being when they pass through temperature monitoring gate. When a human passes through an automated con-tactless temperature monitoring gate for monitoring the temperature, If the body temperature of a human is more than 99-degree Fahrenheit then the gate get close automatically by rejecting the entry and start warning beeps when the temperature is high.

Screenshots of the Project :
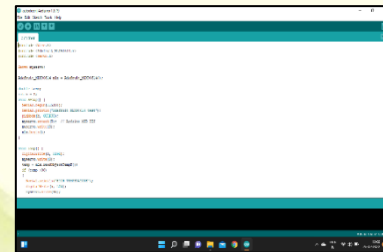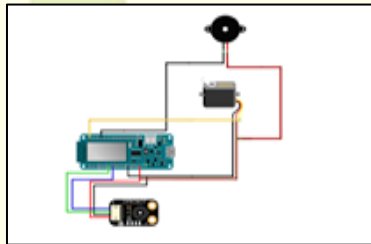
Applications:
• Contactless Temperature Sensing Gate can be used in hospitals, malls, theatres, shops, etc.

Program : Information Technology

Project Title : Smart Waste Management

Domain : Internet of Things

Name of Project Guide : Er. Sunil Dodake

Name of Students

: 19202A0053 –Abhijit Rathiya

19202A0050- Om Nikhil Kannamoarambil

Brief idea of project:

We have proposed IOT Based Waste Management System for smart cities which allow municipal corporations to monitor status of dustbins remotely over web server and keep cities clean very efficiently by optimizing cost and time required for it. As soon as dustbin has reached its maximum level, waste management department gets alert on web page or server through module placed at dustbin so department can send waste collector vehicle to respective location to collect garbage.

Screenshots of the Project

Applications:

• Waste Management

Program : Information Technology

Project Title **:** Freshpiry – Organic Product Expiry Tracking

Domain : Web Application

Name of Project Guide **:** Er. Samidha Chavan

Name of Students

: 19202A0022 **–** Mansa Vangari
19202A0024 – Aryan Tambe
19202A0027 – Rishabhbabu Chidurala
19202A0043 – Sana Kazi

Brief idea of project:
Our web application, ensures that the organic products do not last or remain past their manufacturing date. And the farmers, sales office personnel's , have the details of every batch of products in one click. i.e easy to access. Our web application is a contribution in this market, which might be turn out a product very helpful for people who sell organic products as well as for the ones who buy.

Screenshots of the Project
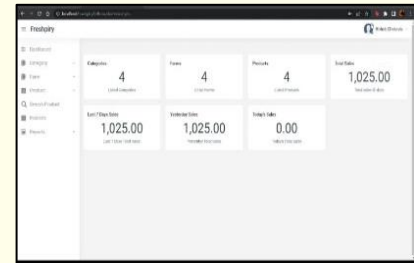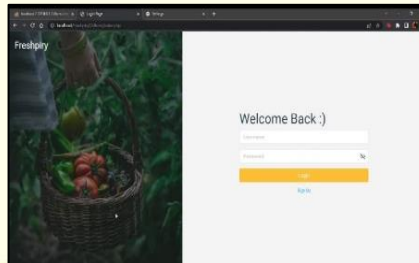
Applications:
- Organic product industry in Business-to-Business E-commerce .
- Inventory management of organic products with expiry date alert .

Program : Information Technology

Project Title :   Coding Expert -Programming Learner Kit

Domain   :   Web Application

Name of Project Guide :   Er. Archana Gopnarayan

Name of Students :
19202A0008 - Anish Jadhav
19202A0014 - Eisa Chaudhary
19202A0037 - Runal Jadhav
19202A0057 - Varun Majethia

Brief idea of project:
In order to simplify the complex process of learning and understanding how to code, we came up with this innovative web app named as 'Coding Expert'. This website aims to solve basic and complex coding algorithms, simple codes & basic foundations necessary for greater projects, by simply providing animations & simulations to provide better understanding of any concept. This website also provides lectures based on specific topics and gives the user the ability to learn and code simultaneously with the help of an in-built compiler which is also provided by our website. On 100% completion of a particular language the user gets to download a certificate of that specific course.

Screenshots of the Project:
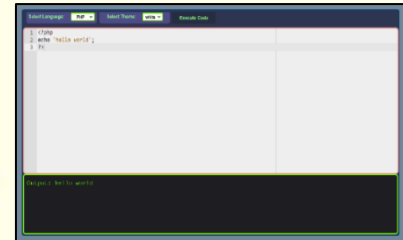
Applications:
• Educational and training purpose.

Program : Information Technology

Project Title :   Live Life Nursery

Domain   :   Web Application

Name of Project Guide :   Er. Samidha Chavan

Name of Students

:   19202A0002 **–** Siddhi Kargutkar
    19202A0016 – Shweta Dabhole
    19202A0060 – Faiz Patel
    19202A0061 – Harshita Mishra

Brief idea of project:

Our project- Live Life Nursery is a web application that helps the nurseries to have a digital platform to sell their plants and products and users to buy the plant on just one click .Modules of the website are categories, gallery, products, user registration, payment. Language used CSS , Django , HTML5 , Bootstrap and JavaScript.

Screenshots of the Project
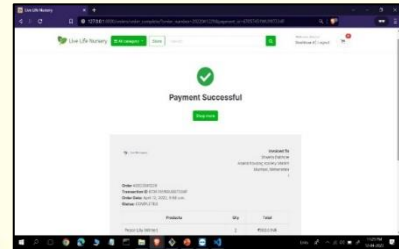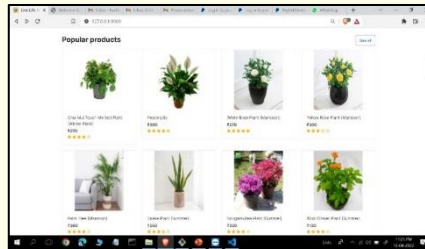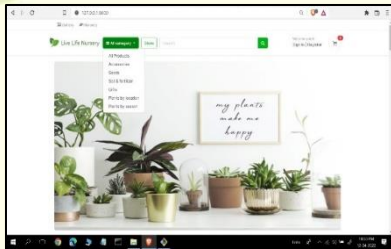
Applications:
- Our website is a destination for everyone who grows and parenting the plants.
- User can buy products and Nurseries can sell products on just a click.

Program : Information Technology

Project Title : Manisha Mahila Gruha Udyog

Domain : Web Application

Name of Project Guide : Er. Sushma Pawar

Name of Students :
19202A0001- Yash Rajguru

19202A0012 - Aniket Shirsat

19202A0013 - Tanmay Gore

19202A0015– Shubham Chinchankar

Brief idea of project:
Manisha Mahila Gruha Udyog is a website developed to place order for the food to the user he can adjest the quantity of the order. There are various varieties of items from which user can choose and do thhe payment in online or cash on home delivery.

Screenshots of the Project
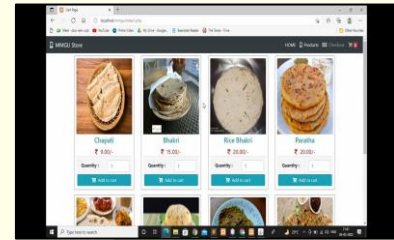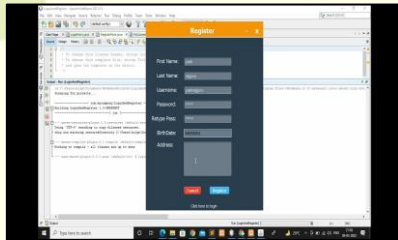
Applications:
- Placing food online order

Program : Information Technology

Project Title : QuickKart

Domain : Web Application

Name of Project Guide : Er. Samidha Chavan

Name of Students :

19202A007 **–** Girish Rakshe

19202A009 – Ajinkya Minaspur

19202A0020 – Aniket Gaikwad

19202A0031 – Jayesh Gaikwad

Brief idea of project:
"QuickKart" is a website which is an online shop that provides perfume and scented items. The page shows the perfume information along with plenty of eye-catching picture to engage visitors. Add to cart design improves their customer shopping experience

Screenshots of the Project
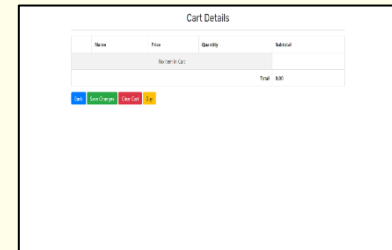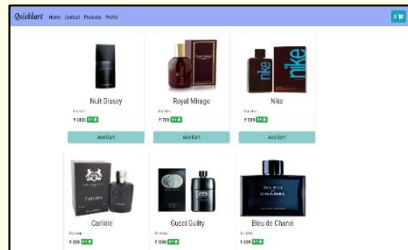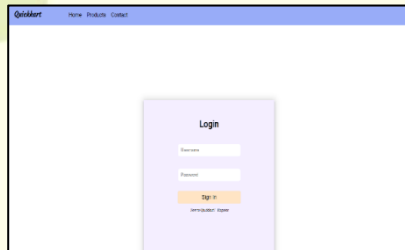
Applications:
- Online shopping of perfumes and scents
- Product specific advertisements and marketing

Program : Information Technology

Project Title	:	Online Bakery Shop
Domain	:	Web Application

Name of Project Guide : Er. Sridevi Patil

Name of Students :

19202A0069 - Faisal shaikh

19202A0064 - Azeem Khan

19202A0045 - Soham Nalawde

19202A0039 - Harshal Patil

Brief idea of project:
On this website guest users (users who are not registered) can view the bakery cake menu, search for cake according to cake name and guest users can also sign up in the bakery and the registered users can sign in. User can also track their order without login. MySQL is used for creating database and php is used as programming language. HTML is used for User Interface designing.

Screenshots of the Project
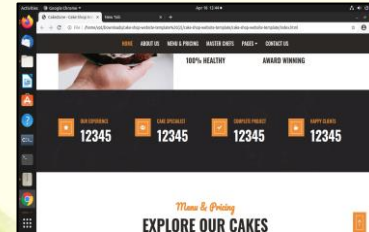
Applications:
- Fast Delivery.
- Types of Order that can be taken are Birthday,Wedding,Custom.

Program : Information Technology

Project Title : Digital Menu Cards for Restaurants and Ordering System Using QR Code Scanning

Domain : Web Application

Name of Project Guide	:	Er. Shonal Vaz
Name of Students	:	19203B0006 – Soham Pandit
		19203B0024 – Meet Mane
		19203B0025 – Abhishek Bhalerao
		19202B0017 – Abdul Basit Shaikh

Brief idea of project:

The System will mainly depend upon providing restaurants and ordering system by QR code scanning (by Cell phones) servicing facility. We have planned to create a website by using various programming languages for the same. We have done a quick survey related to our topic in our nearby restaurants and found some of are interested in this. This will surely help restaurant Manager as well as to satisfy their customers. We have goals to implement this in most of the urban restaurants.

Screenshots of the Project
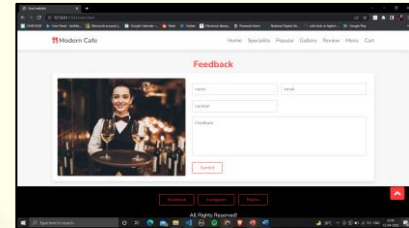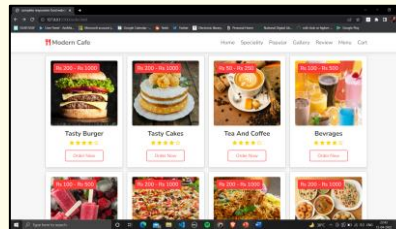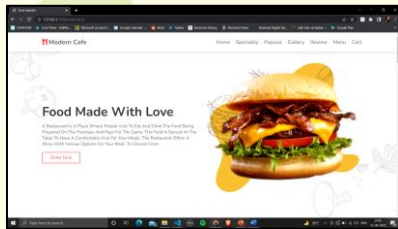
Applications:

- Restaurant & Hotel

Program : Information Technology

Project Title   :   Fingerprint Online Voting System

Domain   :   Web Application
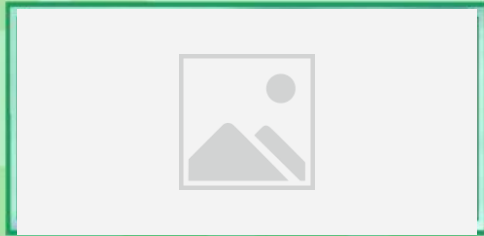
Name of Project Guide   :   Er. Yogita Jore

Name of Students   :

19202B0028- Kritika. Worlikar

19202B0032- Pranita Ughade

19202B0038- Pranali Yadav

19202B0040 – Maithili Gilbile

Brief idea of project:

Biometric Fingerprint devices are used in the Electronic Voting machine for voter verification. We have designed a fingerprint-based voting machine where there is no need for the user to carry his ID which contains his required details. In this we have created database using Microsoft SQL server management (MSSM).

Screenshots of the Project
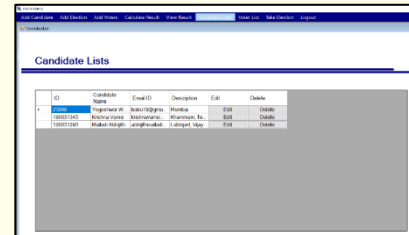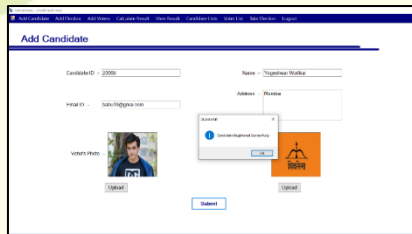
Applications:

- This project can be used as a voting machine to prevent rigging, during the elections in the polling booths.
- It could also be used to conduct general assembly elections where number of candidates are less than or equal to eight in the current situation, on a small-scale basis.

Program : Information Technology

Project Title :   Online Outfit Store

Domain :   Web Application

Name of Project Guide :   Er. Shonal Vaz

Name of Students :

19202B0036 - Shivam Gupta

19202B0041 - Sunit Sawant

19202B0043 - Smita Sargar

19202B0044 - Imad Khot

Brief idea of project:

Online Outfit Store is a website which can be used to purchase Outfit's for men's, women's, kids. Modules of this website includes- Home, Login page, Register page, etc. MySQL is used for creating database and PHP is used as programming language. HTML & CSS is used for User Interface designing.

Screenshots of the Project
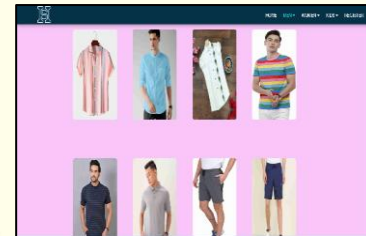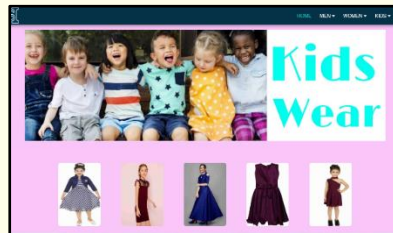
Applications:

• It is used to purchase outfits online.

Program : Information Technology

Project Title :   Online Bookshop

Domain   :   Web Application

Name of Project Guide   :   Er. Shonal Vaz

Name of Students

:   18202B0027 - Ashwin Gajankush

19202B0022 - Mandar Dalvi

19202B0007 - Taheer Shaikh

19202B0009 - Raunak Deshmukh

Brief idea of project:
The main objective of the Online Book Store is to manage the details of Books, Customer, Payment, Delivery, Bills. It manages all the information about Books, Stock, Bills, Books. Find the right Place to set up your Bookstore business. Collect right set of Books. Give your customers reason to buy from you.

Screenshots of the Project
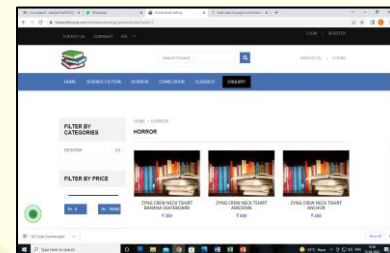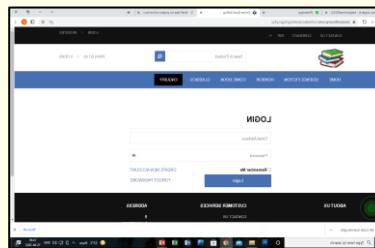
Applications:
• Online shopping of books

Program : Information Technology

Project Title : Health and fitness club management

Domain : Web Application

Name of Project Guide : Er. Chetashri Bhusari

Name of Students :

19202B0055 **–** Sahil kahar

19202C0009 – Shreyas Margaj

20202B1002 – Asha Mundhe

20202B1003 – Priyanka Pagare

Brief idea of project:
The Webapp project proposed here aims at automating the management system for Fitness & Training Health clubs. New members can easily get registered with the fitness club by selecting the desired membership program & completing the payment procedure.

Screenshots of the Project
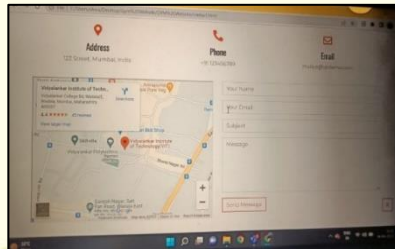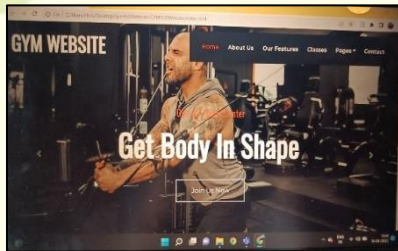
Applications:
• Gym management

Program : Information Technology

Project Title : Online Grocery Shop

Domain : Web Application

Name of Project Guide : Er. Sushama Pawar

Name of Students :

19202B0027 -Harsh Varak

19202B0042 - Kartik Karande

19202B0047 - Sumit Deokar

19202B0056 - Prem Sunka

Brief idea of project:
An online grocer is either a brick-and-mortar supermarket or grocery store that allows online ordering, or a standalone e-commerce service that includes grocery items. There is usually a delivery charge for this service.

Screenshots of the Project
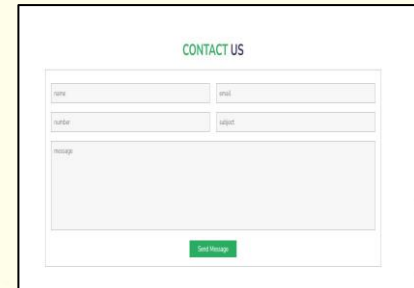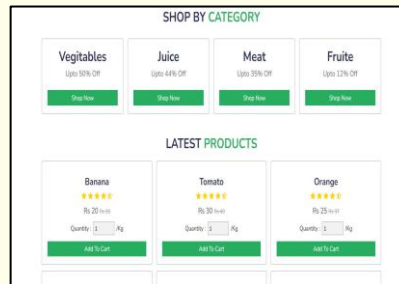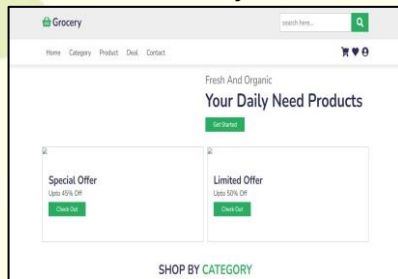
Applications:
• E-commerce and Marketing

Program : Information Technology

Project Title   :   Web Scraper For LinkedIn (Industry Project by - Sahu Technologies)

Domain   :   Web Application

Name of Project Guide : Er. Chetashri Bhusari , Er. Sushama Pawar

Name of Students : 19202C0011 – Justin Isaac

19202C0052 – Maksud Shaikh

19202B0037 – Neha Singh

19202C0038 – Karan Vishwakarma

Brief idea of project:

In this project we are going to use data scraping, which is also known as web scraping on LinkedIn, for extracting the data which recruiters requires. On LinkedIn many users have created their account but while web scraping, we require specific data like people who have applied for that specific Job (Python developer from Mumbai).

Screenshots of the Project :
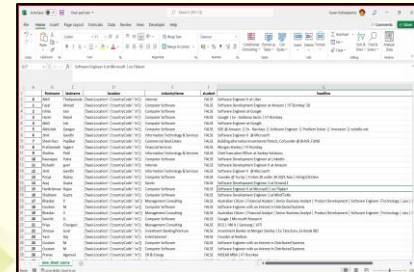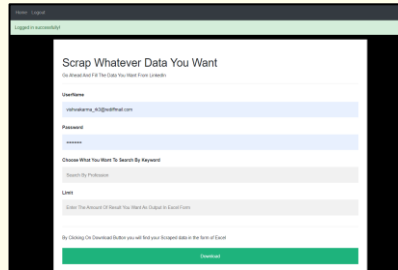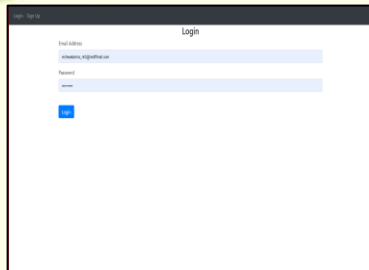
Applications:

- Price comparison & Competition Monitoring
- Predicative Shipping Logistics

Program : Information Technology

Project Title : Online Vehicle Parking

Domain : Web application

Name of Project Guide : Mrs. Sushama Pawar

Name of Students :

19202C0006 – Neeta Darge

19202C0054 – Prachi Patkar

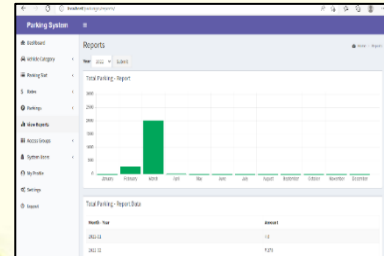19202C0047 – Apeksha Jadhav

19202A0067 – Prema Tamilselvan

Brief idea of project:

The Online Vehicle Parking Reservation System is a system that enables customers/drivers to reserve a parking space. It also allows the customers/drivers to view the parking status. Online Parking Management System is a web application created in PHP MySQL Database, Using JavaScript, Bootstrap, HTML, CSS, Modal, and Ajax.

Screenshots of the Project

Applications:

• The system can also be used in public places for public parking like in malls, station, and so on.
• The project can be implemented in commercial areas for employee parking.

Program : Information Technology

Project Title : **Hospital Management System**

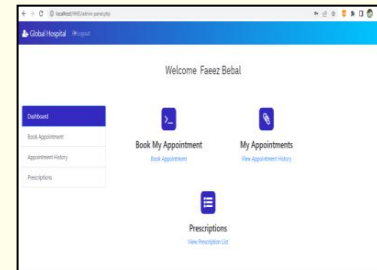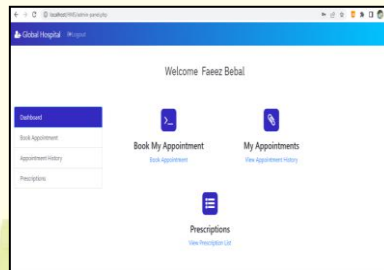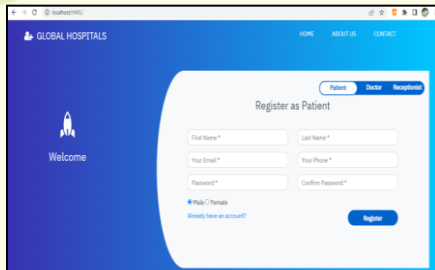**Domain** : **Web Application**

Name of Project Guide : Mr. Ketan Bagade

Name of Students :
9202C0043 – Faeez Bebal
19202C0044 - Saddam Shaikh
19202C0056 – Talib Shah

Brief idea of project:

This project Hospital Management system includes registration of patients, storing their details into the system, and computerized billing in the pharmacy, and labs. The software has the facility to give a unique id for every patient and stores the clinical details of every patient and hospital tests done automatically.

Screenshots of the Project

Applications:

• Hospital automation

Program : Information Technology

Project Title : **Fake News Detection**

Domain : **Web Application**

Name of Project Guide : Er. Sunil Dodake

Name of Students

: 19202A0051 – Gayatri Sawant
19202A0058 - Sujal Chauhan

Brief idea of project:

The fake news detection analyzes the prevalence of fake news in light of the advances in communication made possible by the emergence of social networking sites. The purpose of the work is to come up with a solution that can be utilized by users to detect and filter out sites containing false and misleading information. We use simple and carefully selected features of the title and post to accurately identify fake post.

Screenshots of the Project

Applications:

• This project can be used by all standards for knowing the fact behind news.

Program : Information Technology

Project Title : Student Portal

Domain : Web Application

Name of Project Guide : Er. Ketan Bagde

Name of Students : : 19202C0030 - Abdul Samad
19202C0045 - Ansari Noman
19202C0032 - Ansari Mujtaba
19202C0051 – Krishnakumar Prajapati

Brief idea of project:

Student Portal is a website that use to connect teacher with students. it can monitered and control remotely. A student portal is an online gateway where students can log into a school website to access important program information. Student portals also contain information on courses offered, transcripts, email programs, timetables, exam schedules and department contact numbers.

Screenshots of the Project
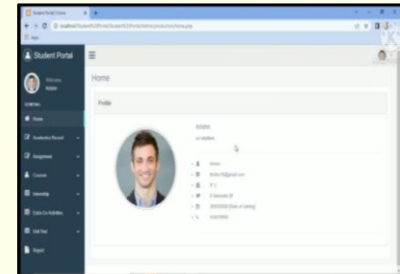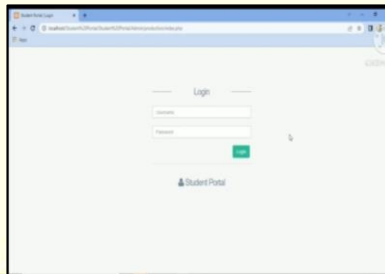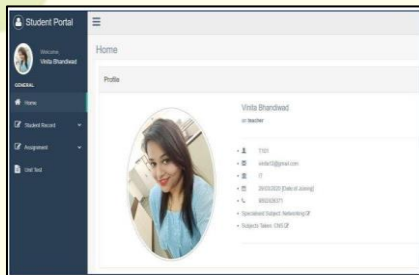
Applications:
• For teacher and student interaction.

Program : Information Technology

Project Title : **Smart CCTV.**

Domain : **Web Application**

Name of Project Guide : Er. Ketan Bagade

Name of Students

: 19202B0018 - Parth Naik

19202C0042 - Harsh Bhosle

Brief idea of project:
The need of improving the modern security systems in homes, offices and other buildings for the protection of lives and properties. The design of a smart cctv is demonstrated considering all the components and their different functions and importance. Is also analyses the disadvantages and advantages of using smart cctv. The simplicity of the system on both the hardware and the software makes it easy and preferable for the security of lives and properties.

Screenshots of the Project

Applications:
- Home Use
- Used in Office , Schools , Hostels etc.

Program : Information Technology

Project Title : E-Toll System

Domain : Web Application

Name of Project Guide : Er. Sridevi Patil

Name of Students :

19202C0051 - Azman Shaikh

19202C0046 - Omkar Narayane

21202C2001 - Vignesh Konar

Brief idea of project:
Automatic toll collection using Optical Character Recognition (OCR) aims at successfully removing unnecessary traffic delays, faster and reliable processing and transaction of toll tax aiming to go cashless. In this, OCR is widely used technology which converts scanned images of printed text, handwritten text characters into machine encoded text information such as ASCII.

Screenshots of the Project
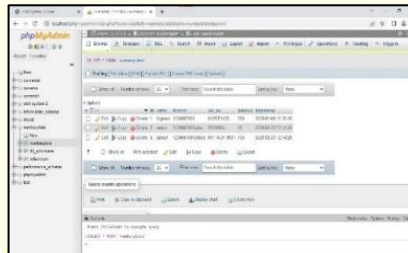
Applications:
- Applicable at toll roads / highway
- E-wallet system

Program : Information Technology

Project Title : Pharmacy Mangement System

Domain : Web Applicatiom

Name of Project Guide : Er. Ketan Bagade

Name of Students

: 19202C0033 - Rakhi Ingle

19202C0037 - Apurva Sankpal

Brief idea of project:
The main objective of the Pharmacy Management System is to manage the details of Medicine, Stocks, Inventory Pharmacy Sets. The project is totally built at administrative end and thus only the administrator is guaranteed the access . This project is created using PHP MySQL Database, JavaScript ,HTML,CSS.

Screenshots of the Project
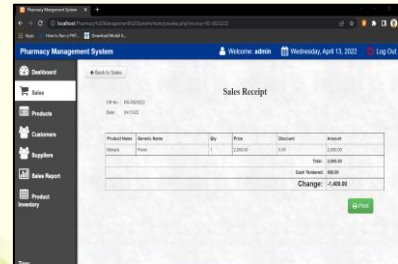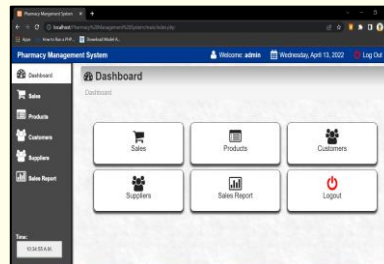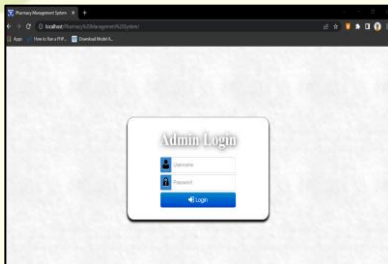
Applications:
- This system use to stores data and enables functionality that organizes and maintains the medication use process within pharmacies.

Program : Information Technology

Project Title   :   Movie Ticket Booking

Domain   :   Web Application

Name of Project Guide   :   Er. Prerana Jalgoankar

Name of Students

:   20202C1006 - Ayush Gunjkar

20202C1002 - Kunal Agaskar

20202C1003 - Altamash Shaikh

19202C0040 - Harshal Shete

Brief idea of project:
Movie Ticket Booking is a website which helps to book movies online while there is no reason for standing in line. We have the specification in our website that is we show the news of upcoming movies and, we can watch the trailer on the site of upcoming movies etc.

Screenshots of the Project
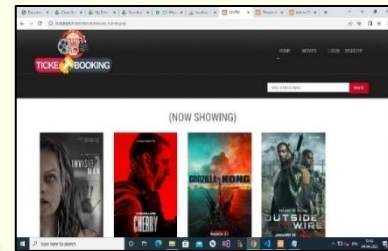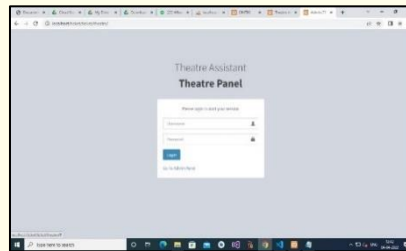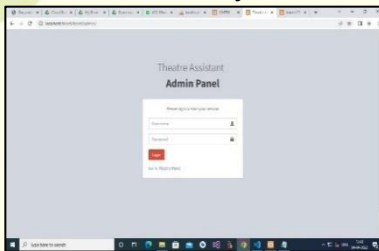
Applications:
- You can book movie ticket from anywhere.
- You can watch trailers of any movies see the news of upcoming movies which you are excited for.

Program : Information Technology

Project Title : Online video directory for Entrepreneur

Domain : Web Application

Name of Project Guide : Er. Ketan Bagade

Name of Students

: 19202B0015 - Pratham Raut
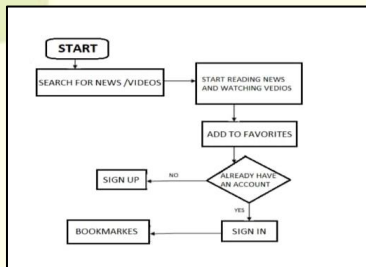
19202C0021 - Niranjan Parkar

19202A0059 - Sachin Jupka

19202C0048 - Vansh Jain

Brief idea of project:
Entrepreneur video directory is a unique and advance video gallery plug in and a video archive or video portfolio manager to display videos of entrepreneurs across globe sharing their life experience to reach the state of life which they have achieve today.

Screenshots of the Project

Applications:
• Entrepreneurs marketing

Program : Information Technology

Project Title : Li-Fi Technology

Domain : Wireless Communication

Name of Project Guide : Er. Kalyani Pawar

Name of Students :

19202A0023 - Akshay Gawde

19202A0042 - Soham Rane

19202A0063 - Shaizan Shaikh

19202A0068 - Abhishek Kadam

Brief idea of project:
LiFi (light fidelity) is a bidirectional wireless system that transmits data via LED or infrared light. It was first unveiled in 2011 and, unlike wifi, which uses radio frequency, LiFi technology only needs a light source with a chip to transmit an internet signal through light wavesf the Project

Screenshots of the Project
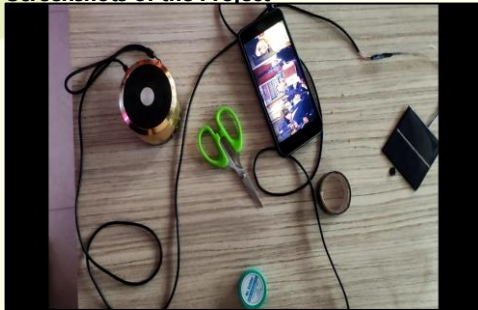
Applications:
- LiFi applications are varied as a result of its key features, such as directional lighting, energy efficiency, intrinsic security, high data rate capability, signal blocking by walls and integrated networking capability.

Program : Information Technology

Project Title : Computer Security Learning Kit
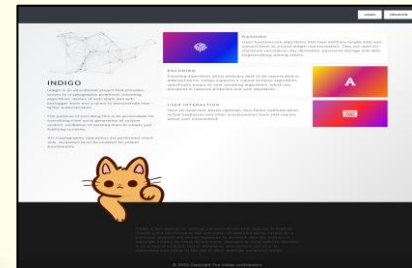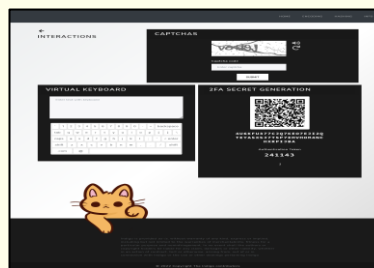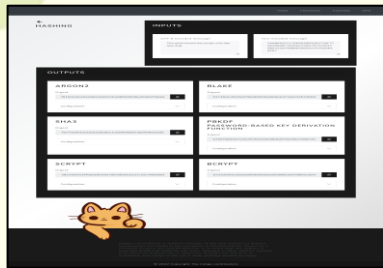
Domain : Security , Web Application

Name of Project Guide : Er. Samidha Chavan

Name of Students :

19202B0003 - Kadambari Patel
19202B0010 - Vinaya Redekar
19202B0012 - Ahmad Kazi
19202B0013 - Saud Shabbir

Brief idea of project:
Computer Security Learning Kit is a portal which demonstrate various security concepts like Hashing , Encoding , Authentication methods etc. It also gives information about latest security algorithms, examples and applications like Virtual keyboard, Captcha , Scan code authentication etc. It can be useful for learning security concepts for developers, teachers and learners.

Screenshots of the Project

Applications:
- Greatest use within the education sector.
- Developers could most likely use the tool as a way of generating internal test vectors.

Program : Information Technology

Project Title : Spy-Crop

**Domain** : Security ,Web Application

Name of Project Guide : Er. Sunil Dodake

Name of Students

: 17201C0049 – Anurag Sawant

17201C0053 – Khalid Patrawala

17201C0057 – Divyanshu Dubey

17201C0058 – Indu Medisetti

Brief idea of project:

To contribute towards communal health, Spy Crop is an attendance-based mask detection application . In frontend we have used JavaScript, HTML, PHP, Python and in backend we have used MySQL.

Screenshots of the Project
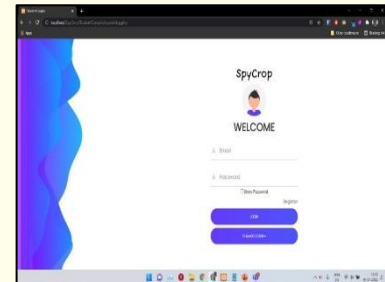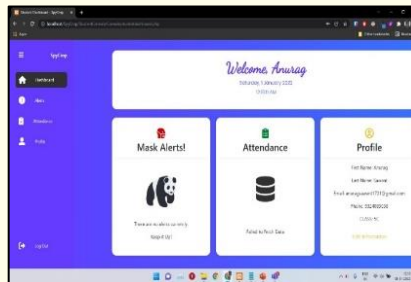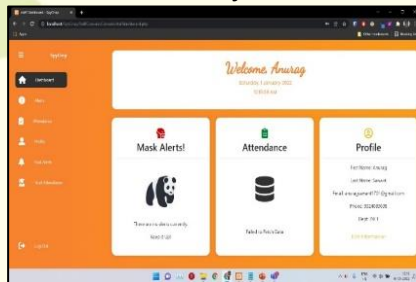
Applications:

- To detect weather the person present is the class is wearing mask properly or not.
- If there is improper mask detection, there will be an alert message warning to the student.

Program : Information Technology

Project Title : Decentralized Grading System on Blockchain

Domain : Blockchain

Name of Project Guide : Er. Sunil Dodake

Name of Students :

19202B0051 - Uzef Ansari

19202B0008 - Maviya Khan

19202B0062 - Tarikul Fakir

19202B0053 - Ivin Santhosh

Brief idea of project:
Result Dapp is a decentralized app built on Ethereum blockchain. It stores student exam records in a public blockchain for transparency and security. Blockchain is highly secure because of its proof of work algorithm making it impossible for an attacker to gain control.

Screenshots of the Project
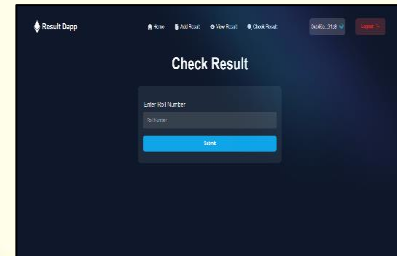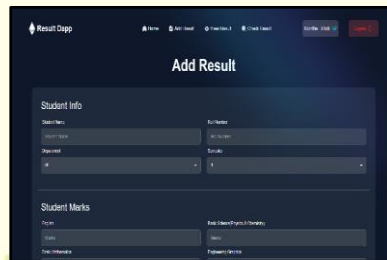
Applications:
- Colleges
- Universities

Final Year Project Committee
Program: Information Technology

	Er. Yogita Jore **(HOD, Department of Information Technology)**
	Er. Samidha Chavan **(Project Coordinator, Department of Information Technology)**