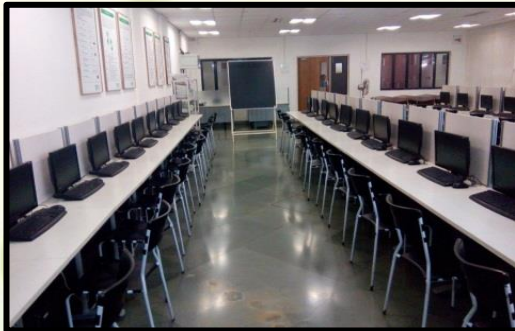


V-ideas

2018 - 2019

Program: Computer Engineering
(NBA Accredited)

Accredited By: National Board of Accreditation, New Delhi



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



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.

V-ideas culminates V-Technovation 2019

"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 : Computer Engineering

Vision

To empower students with domain knowledge of Computer Engineering and interpersonal skills to cater to the industrial and societal needs.

Mission

- Developing technical skills by explaining the rationale behind learning.
- Developing interpersonal skills to serve the society in the best possible manner.
- Creating awareness about the ever changing professional practices to build industrial adaptability.

Program : Computer Engineering

Area ID	Project Area	Project ID	Project Title	Page No.
CO1	Desktop Applications	CO1.1	Student Support System with Outcomes	1
		CO1.2	E-Toll System	2
		CO1.3	Interactive Board for VP	3
		CO1.4	VP Canteen Management System	4
CO2	Web Applications	CO2.1	School Application	5
		CO2.2	Virtual Tour of College with Voice Recognition	6
		CO2.3	Web Site for Boutique	7
		CO2.4	Track ID	8
		CO2.5	Digital Voting System	9
		CO2.6	Travel Management	10
		CO2.7	Website for Classes	11
		CO2.8	Medicare	12
		CO2.9	Event Management	13
		CO2.10	De-Cloud	14
		CO2.11	E-mail Segregation	15
		CO2.12	Navigation Application for Hospital	16
		CO2.13	Ayurveda	17

Program : Computer Engineering

Area ID	Project Area	Project ID	Project Title	Page No.
CO3	Embedded System	CO3.1	Student Security	18
		CO3.2	PC Controlled by Hand Gesture	19
		CO3.3	Door Lock Security	20
		CO3.4	Biometric Attendance System	21
		CO3.5	Android based Railway Level Gate Control	22
		CO3.6	Advanced Parking System	23
		CO3.7	Light Us	24
		CO3.8	Smart Mirror	25
		CO3.9	Credit Card Reader using Face Recognition	26
		CO3.10	Waste Management using Smart Dust Bin	27
CO4	Mobile Applications	CO4.1	Mumbai Fire Brigade Inspection App	28
		CO4.2	Food Ordering System	29
		CO4.3	Saloon Appointment Management	30
		CO4.4	Pocket Quiz	31
		CO4.5	Application for Shelter Don Bosco	32

Program : Computer Engineering

Area ID	Project Area	Project ID	Project Title	Page No.
CO4	Mobile Applications	CO4.6	One Time Services	33
		CO4.7	Smart Ambulance	34
		CO4.8	GPS based Dengue Risk Index	35
		CO4.9	Family In	36
		CO4.10	Reward Plus	37
		CO4.11	Car Services Application	38
		CO4.12	Donation App	39
		CO4.13	Mobile App for National Museum of Indian cinema	40
CO5	IOT	CO5.1	Google Assistant based Application Control	41
		CO5.2	IOT based Waste Management System	42
		CO5.3	Intellegient Automated Watering Plant	43
		CO5.4	Automate Pet Feeding	44
		CO5.5	Krishimitra	45
CO6	Image Processing	CO6.1	Recognition based classification of animal based on texture features	46
		CO6.2	Defining body parameters and building up human image from poorly captured Video	47
CO8	Computer Security	CO8.1	Shoulder Surfing Resistance	48

Program : Computer Engineering

Project Title : Student Support System With Outcomes

Domain (Area of Project) : Database



Name of Project Guide: Ms. Sangeeta Wankhede

Name of Students : 16203A0006 - Kaushik Shetye
16203A0015 - Akshata Dawande
16203A0020 - Tejas Gorivale
16203A0021 - Vaishnavi Salvi

Brief idea of Project : We have developed Student Support System With Outcomes to provide feedback in an easy and quick manner to the college Head of Departments, as well as faculty can enter marks of student in excel sheet which is viewed by HOD.

Screenshots of the Project / Photos of Working Model:



Applications:

- 1) We used this application in colleges.
- 2) It is used in any private Business Organization.
- 3) It is used in Government Firm, Hotels.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : E-toll System

Domain (Area of Project) : Desktop application



Name of Project Guide: Ms. Swati Ranade

Name of Students : 16203A0018 - Srushti Talekar

16203A0030 - Shrutika Ugale

16203A0031 - Rohana Survase

17203A1008 - Riya Ambolkar

Brief idea of Project : The main intension to make this project is to provide an electronic toll collection system. By the use of automatic number plate recognition, number plates of each vehicle will be recognised using OCR (Optical Character Recognition) technique and future transaction would be performed. Thereby eliminating the delay of toll roads and a sustainable road experience.

Screenshots of the Project / Photos of Working Model :



Applications: Electronic toll system.
Paid parking system.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Interactive Smart Board for VP

Domain (Area of Project) : Education – Web application

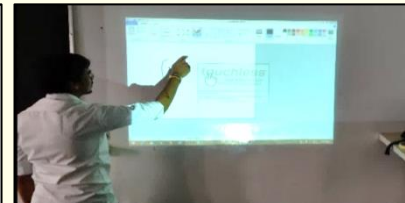
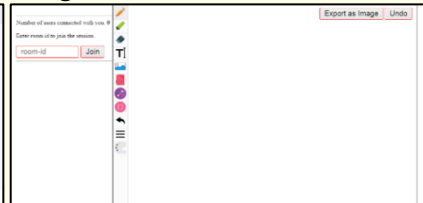
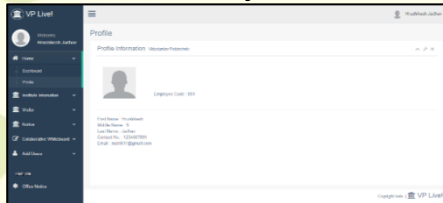


Name of Project Guide: Mr. Sudhir Lawand

Name of Students : 16203C0023 - Hrushikesh Jadhav
16203C0032 - Tanmay Patil
16203C0018 - Siddhesh Wadkar
16203C0013 - Pranav Makwana

Brief idea of Project : Our project is making an interactive wall for presentation purpose. In our project we have developed an effective interface system without any use of external hardware for virtual mouse interaction with projected screen. Our proposed work interacts with the system (i.e. computer and projector) making it work like a touch screen wall. Certain gesture are used to interact with system which are predefined via our program. Gesture detection makes it easier for the user to control the OS. Along with this a Vp-live web application is developed where faculty can upload notes after a session and students can access them later.

Screenshots of the Project / Photos of Working Model:



Applications:

- Interactive Learning
- Interactive Projector

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : VP Canteen Management System

Domain (Area of Project) : Embedded System, Networking, Web technology.



Name of Project Guide: Ms. Anjali Gharat

Name of Students : 15203C0037 - Shreyash Nawle
15203C0039 - Sagar Bhalchim
12203C0144 - Ashish Patil
14203C1041 - Sushant Ghare
12203C0163 - Sahil Khan

Brief idea of Project : In most of the organization/offices handling canteen is a major problem having a track of all the employees is not so easy. So here we have developed a centralized system to take canteen management on further level. Every customer has his own rfid card which has some preloaded amount in it. Whenever person feels hungry he need to swipe the card and place his order. The system keeps a track on food items purchased by customer and deducts the amount from preloaded money. As soon as any item is purchased An SMS is sent to the person on his phone via GSM module.

Screenshots of the Project / Photos of Working Model:



Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : School Management System

Domain (Area of Project) : Android Application

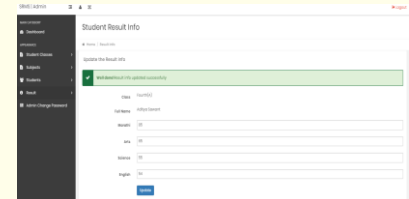
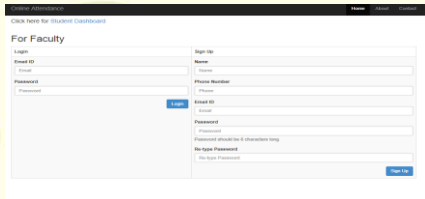


Name of Project Guide: Mr. Vijay Patil

Name of Students : 16203A0001 - Nishant Bhatte
16203A0002 - Nikhil Godbole
16203A0048 - Rohan Joshi
16203A0049 - Aditya Sawant

Brief idea of Project: In today's generation, most of the parents are not aware of their child's performance in their schools. And it is practically difficult for the parents to check on their children in their respective schools. But what if the daily activities, attendance, result, notices, etc. are displayed to the parent on a mobile app. This system is immensely useful in colleges as well as other schools. And that is our motivation for making this possible as my third year project.

Screenshots of the Project / Photos of Working Model:



- Applications:**
1. In schools, to keep track of student performance.
 2. It can also be implemented for college students.

Awards if Any for TPP / Competitions / Paper Publication / Any Other PIs. Specify: -- NA

Program : Computer Engineering

Project Title : Virtual Tour
Domain (Area of Project) : Image Processing



Name of Project Guide: Ms. Manisha Pokharkar

Name of Students : 16203A0004 - Haiqa Khan
16203A0009 - Vedshri Majalkar
16203A0019 - Apurva Patil
16203A0042 - Deepali Kakad

Brief idea of Project : Our project (Virtual Tour) will be able to showcase our college campus aesthetically .

Screenshots of the Project / Photos of Working Model :



Applications : Virtual Tour can allow a user to view an environment while online. Currently a variety of industry use such technologies to grow their Services and product.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Web site and App for Boutique

Domain (Area of Project) : Web site and App



Name of Project Guide: Mr. Vijay Patil

Name of Students : 16203B0004 - Apoorva Somji
16203B0016 - Harshada Sapkale
16203B0011 - Tanmayee Raut
16203B0003 - Anushka Vaidya

Brief idea of Project : Brief information about project:-This web application is an advanced way to provide salon services through an application and also provide images and videos provided by the admin that is the owner of the beauty salon. Customers will be provided with the latest images and videos that will attract the customers by the comfort and the natural beauty friendly products that the salon uses.

Screenshots of the Project / Photos of Working Model:



Applications : For Saloon and Beauty Parlour

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : TrackID - Information Portal For Parents And Students

Domain (Area of Project) : Web Application

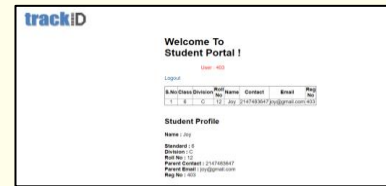
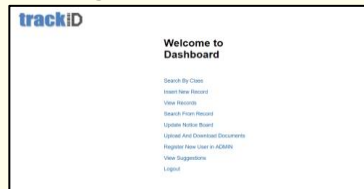
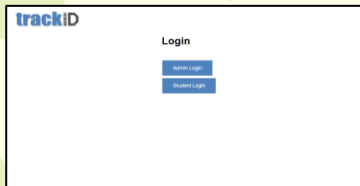


Name of Project Guide: Ms. Poonam Pawar

Name of Students : 16203B0062 - Bhushan Birwadkar
16203B0018 - Vinayak Kamble

Brief idea of Project : TrackID offers parents and students a web application, which provides them all the information maintained and updated by school management and staff. Its a web-based application that offers a simple interface to manage, communicate and send updates to the parents.

Screenshots of the Project / Photos of Working Model:



Applications: Major application of trackID is to

1. Manage records
2. Communicate and
3. Send updates to the parents and students.

Awards if Any for TPP / Competitions / Paper Publication/Any Other Pls. Specify: T

his is sponsored project and certificate is attached right after this slide.

Program : Computer Engineering

Project Title : Digital Voting System

Domain (Area of Project) : Secured Voting



Name of Project Guide: Ms. Sonal Gupta

Name of Students : 16203B0014 - Bhargav Phadke
16203B0019 - Girish Mahind
16203B0025 - Omkar Agarwal
16203B0049 - Vinaya Gawali

Brief idea of Project : Our project is implemented to make the current voting system easier and to reduce the bogus voting being practiced today. We have also added some more features in our system such as Maintenance Bill and Notice.

Screenshots of the Project / Photos of Working Model :



Applications: Government elections, Society elections and other type of elections

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Travel Management System

Domain (Area of Project) : Java based Computer Software



Name of Project Guide : Ms. Sheetal Shelar

Name of Students : 15203B0035 - Dhaval Therattil

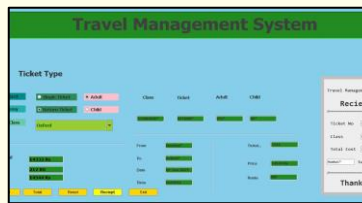
16203B1011 - Farid Shaikh

15203B0015 - Mayur Bhagat

15203B0047 - Lalit Gupta

Brief idea of Project : The main objective of this Travel Management system is to make the travel easy and comfortable for the users.

Screenshots of the Project / Photos of Working Model:



Applications:

To Regulate and Co-ordinate the travel activates, Easy Documentation.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Website For Classes

Domain (Area of Project) : Website Development



Name of Project Guide: Ms. Swati Ranade

Name of Students : 17203B1003 - Suraj Yadav
17203B1002 - Hashim Siddiqui
17203B1006 - Anuj Gupta
16203B0058 - Tanmay Sutar

Brief idea of Project : The idea behind our project is to provide facility to coaching classes which are still away from social platform and work silently without any online recognition. Our website is going to provide the facility such as records of attendance, fee structure, marks of an individual student. Classes will able to generate their admission form, post blogs and can update lectures timing if there's change in schedule. Meanwhile we are going to add social media handles to our website.

Screenshots of the Project / Photos of Working Model:



Applications:

1. Coaching classes can generate their admission form
2. They will get email whenever a visitor want to enquire about classes

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Medi Care
Domain (Area of Project) : Android application

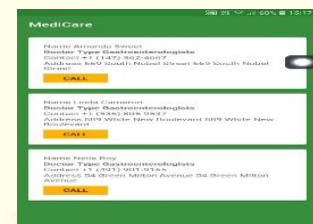
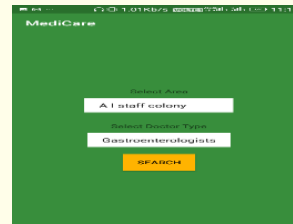
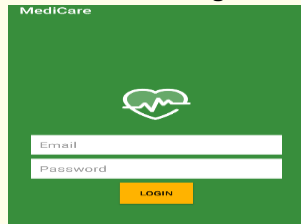
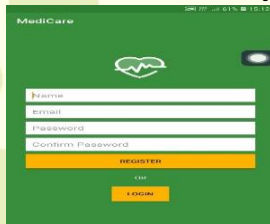


Name of Project Guide: Ms. Meenakshi Khamkar

Name of Students : 16203B0007 - Sarthak Kamble
16203B0061 - Mitesh Virash
16203B0021 - Aryan Shinde
16203B0039 - Gaurav Kamble

Brief idea of Project : MediCare is an **Android** application. Medi Care can be use to find doctors nearby in your city. It is basically a guide app which guide us to find doctors with specified area and specified profession.

Screenshots of the Project / Photos of Working Model:



Applications:

- Doctor with specific profession will be displayed.
- To ease the process of finding correct and specialized doctor just in two clicks.

Awards if Any for TPP / Competitions / Paper Publication / Any Other PIs. Specify: -- NA

Program : Computer Engineering

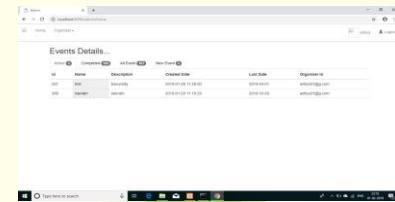
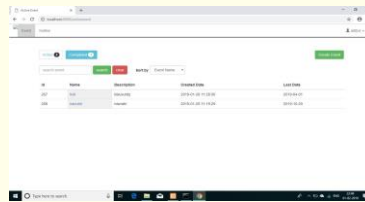
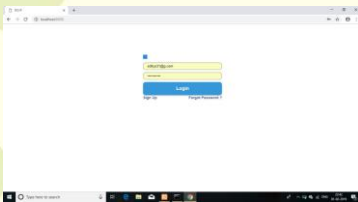
Project Title : Event Management
Domain (Area of Project) : Web Application



Name of Project Guide : Ms. Manisha Pokharkar
Name of Students : 13203B0043 - Aditya Karangutkar

Brief idea of Project : It is web based application where event organisers can create events and send request to invitee. Multiple organisers and multiple admin login is there.

Screenshots of the Project / Photos of Working Model:



Applications:
Organizing various event

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : De-Cloud(Decentralized Cloud and File Storage)

Domain (Area of Project) : Blockchain-IPFS-Decentralized Application



Name of Project Guide: Ms. Sneha Patange

Name of Students : 16203C0047 - Mudassar Mandviwala

16203C0020 - Shreya Gaikwad

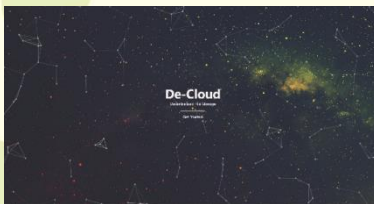
16203C0024 - Neha Kudalkar

16203C0035 - Saad Shaikh

16203C0046 - Harshil Gohil

Brief idea of Project: Project is about developing a decentralized web application based on the cloud storage and file system using the latest technology i.e. Blockchain and IPFS (Interplanetary File System) Protocol to make cloud storage a secure gateway for users to store their data without any compromises. The users can also view the number of peers in a network.

Screenshots of the Project / Photos of Working Model:



Applications:

Useful tool for industry and personal use as it provides 100% security while storing and sharing the files. Latest technology used which gives an idea about the level of innovation and creativity that can be done.

Awards if Any for TPP / Competitions / Paper Publication / Any Other PIs. Specify: -- NA

Program : Computer Engineering

Project Title : Email Segregation

Domain (Area of Project) : Networking Security

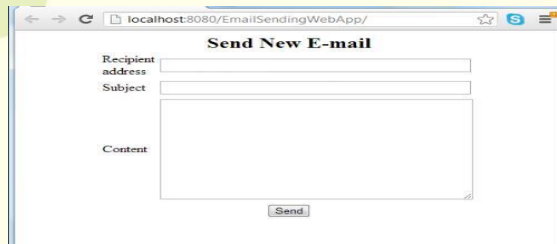


Name of Project Guide: Mr. Sudhir Lawand

Name of Students : 17203C1019 - Sanket Kakade
17203C1016 - Shubham Patil
17203C1005 - Mayuresh Anavkar
17203C1006 - Aditya Thakur

Brief idea of Project : The project is about making mail dashboard and a webmail service. This webmail service will allow user to create account and exchange mails. Users can send/receive mail to/from internal as well as external domains. The mail dashboard will show a segregated column where all the segregated mails will be displayed according to the category

Screenshots of the Project / Photos of Working Model:



Applications : To send and receive e-mail messages in segregated form.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Navigation Application

Domain (Area of Project) : Mobile Application.



Name of Project Guide: Ms. Sneha Patange

Name of Students : 17203C1014 - Himanshi Pandey

17203C1013 - Komal Jagdale

17203C1011 - Yogita Sanas

17203C1001 - Pooja Sargar

Brief idea of Project : The main objective of the project is to solve difficulties in finding the right place on the right floor of the hospital where patients with complex health care needs who must go back numerous times not only to the hospital rooms but to the numerous different departments for their outpatient testing.

Screenshots of the Project / Photos of Working Model:



Applications:

Can be used as a Road Map Guide for any organization

Program : Computer Engineering

Project Title : Ayurveda

Domain (Area of Project) : Android, Web Application

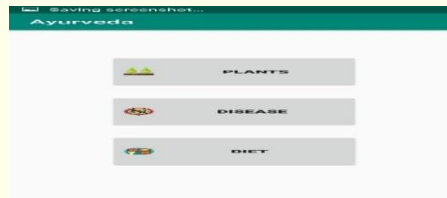


Name of Project Guide: Mr. Rohit Patil

Name of Students : 16203C0042 - Deepak Manney
16203C0036 - Omkar Barve
16203C0017 - Piyush Mayekar
1320C0042 - Abhishek Shinde

Brief idea of Project : This is a platform where users can easily get information about Ayurveda. This also informs about how much quantity of product is required for making ayurvedic medicine.

Screenshots of the Project / Photos of Working Model :



Applications:

Ayurveda does not have any side effect, so users can perform all the Ayurvedic advise given by the application at home.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Student Security

Domain (Area of Project) : IOT



Name of Project Guide: Prof. Supriya Angne

Name of Students : 16203A0050 - Nishant Tigdi

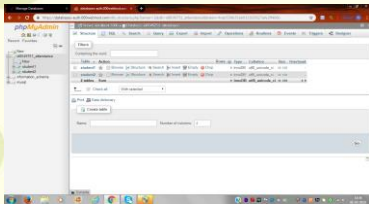
16203A0059 - Nilesh Patil

16203A0064 - Shubham Khedekar

16203A0057 - Swarangi Salvi

Brief idea of Project: Now a days, the number of crime over children is increasing day by day, the implementation of School Student Security via RFID to avoid crime illegal activities among students. The project consists of use of RFID, WSN and a web based development using PHP, VB, , net and SQL. Using RFID the activity of the student can be tracked .The information about the student such as the time of in and out of the bus and the campus will be recorded to a web based system and the school can review the activity if the student has arrived at school/home safely.

Screenshots of the Project / Photos of Working Model:



- Applications:**
- 1) To be used in schools / colleges to track the activity of the student.
 - 2) Fleet Management/Tracking.
 - 3) Toll Plaza's.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Low Cost Gesture Control

Domain (Area of Project) : Arduino



Name of Project Guide : Ms. Anjali Gharat

Name of Students : 16203A0032 - Sanika Kalyankar

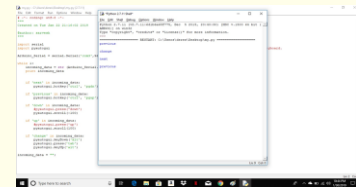
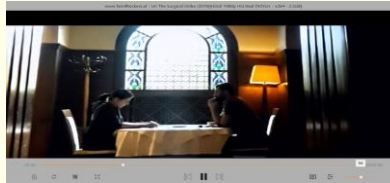
16203A0022 - Nupur Sule

16203A0055 - Sarvesh Dere

16203A0053 - Viren Pokle

Brief idea of Project : The concept behind the project is very simple. We will place two Ultrasonic (US) sensors on top of our monitor and will read the distance between the monitor and our hand using Sensors, based on this value of distance we will perform certain actions. To perform actions on our computer we use Python pyautogui library. The commands from Arduino are sent to the computer through serial port (USB). This data will be then read by python which is running on the computer and based on the read data an action will be performed.

Screenshots of the Project / Photos of Working Model:



Applications:

- Used in computer system for controlling the functions in the system that is compatible with microcontroller.
- Used in car audio systems for controlling the functions while driving.
- Used in Television systems for changing the channels and controlling Volume easily.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Door Lock security

Domain (Area of Project) : Embedded System



Name of Project Guide: Ms. Poonam Pawar

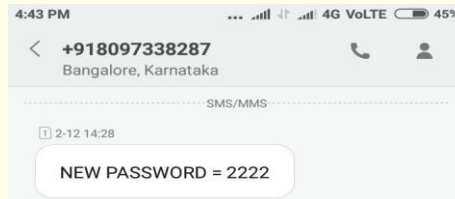
Name of Students : 14203B0049 - Shritej Walawalkar

15203B1012 - Ankushkumar Rai

15203B013 - Ram Keluskar

Brief idea of Project: An access control for doors forms a vital link in a security chain. The microcontroller based digital lock for Doors is an access control system that allows only authorized persons to access a restricted area

Screenshots of the Project / Photos of Working Model:



Applications: KEIL BURNER

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Biometric Fingerprint Attendance System.

Domain (Area of Project) : Security System



Name of Project Guide: Ms. Sheetal Shelar

Name of Students : 16203B0051 - Kiran Gajmal.

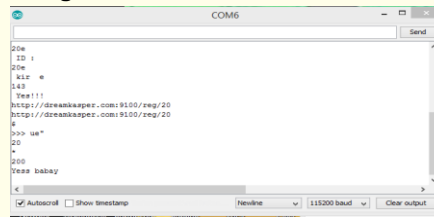
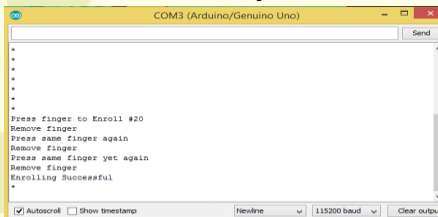
16203B0028 - Anushka Wadvalkar.

16203B0029 - Sapna Mandavakar.

14203B0056 - Shubham Tupat.

Brief idea of Project : Our project aim at designing a student attendance system which could effectively manage attendance of students at institutes. Attendance is marked after student identification. For student identification, a fingerprint recognition-based identification system is used. Fingerprints are considered to be the best and fastest method for biometric identification.

Screenshots of the Project / Photos of Working Model:



Applications: 1. In school, colleges.
2. Hospital
3. Company

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Railway Gate Control Using Android Application

Domain (area of project) : Android Application

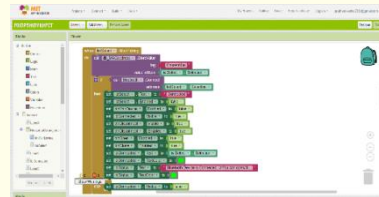


Name of Project Guide: Ms. Meenakshi khamkar

Name of Students : 16203B0054 - Sagar Pawar.
15203B0022 - Prathamesh Farkate.
16203B0041 - Vishal Kashid.

Brief idea of Project: Railway level crossing gate opening/closing system operated through an android application and connectivity based on Bluetooth device.

Screenshots of the Project / Photos of Working Model :



Applications :

- Railway Department
- Home Security.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Advance Parking System

Domain (Area of Project) : Open Source Application



Name of Project Guide: Ms. Sayali Kadam

Name of Students : 16203C0002 - Riju Bhattacharrya

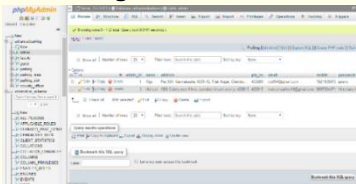
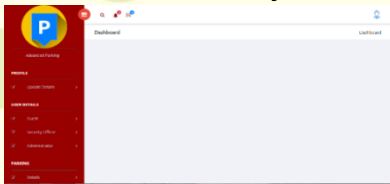
16203C0016 - Mahesh Pathare

16203C0012 - Atharva Pansare

16203C0026 - Rutvik Joshi

Brief idea of Project: Parking is a problem for almost everyone today so there has to be a solution, which helps getting rid of problems arising due to the lack of a proper parking management system. Although various traditional **PGIS (Parking Guidance Information System)** exist, they can serve only a few users because it is difficult for such static systems to disseminate information on a wider scale. So, the aim of this study is to provide a dynamic solution by introducing the concept of parking guidance system over the internet. The proposed Smart Parking system consists of an on-site deployment of an IOT module that is used to monitor and signalize the state of availability of each single parking space. A **android application** is also provided that allows an end user to check the availability of parking space and book a parking slot accordingly. Once, the parking slot is booked, the charges are compared to the predefined rates and if it exceeds the specified time limit extra charges are added with respect to minutes

Screenshots of the Project / Photos of Working Model:



Applications: College & Universities, Open markets, Malls, Companies, etc.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : LIGHT US

Domain (Area of Project) : IOT

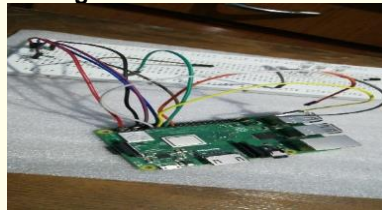
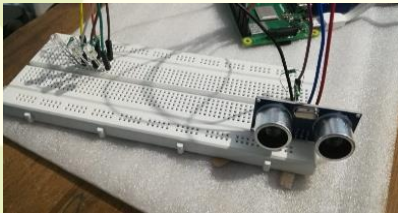


Name of Project Guide: Ms. Anjali Gharat

Name of Students : 16203A0062 - Deven Bornare
16203C0044 - Rahul Singh
16203C0043 - Rasika Gawde
16203C0030 - Shubham Singh

Brief idea of Project: Our project is based on automatic lighting system for a single room . It has a simple mechanism of identifying human object using image classifier and then turn on the lights nearby the human object based on the location of the human in the room which is measured using ultrasonic sensor.

Screenshots of the Project / Photos of Working Model:



Applications: Measure the distance of human and turn on the light.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Smart Mirror

Domain (Area of Project) : Internet Of Things



Name of Project Guide: Ms. Vaishali Malkar

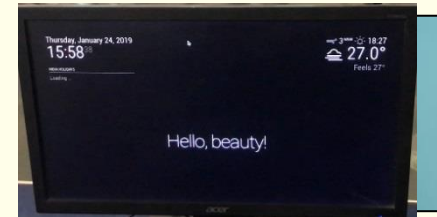
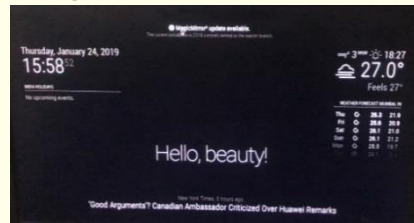
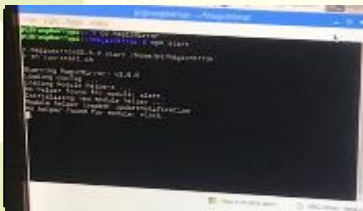
Name of Students : 17203C1009 - Tejas Patil

17203C1015 - Malton Durai

17203C1004 - Muhammad Khilji

Brief idea of Project : The mirror is eventually a technologically augmented interaction device. The objective of designing the mirror is to provide a natural interface in the ambient home environment for accessing various services such as location based weather, time, calendar etc. as well as provide access to YouTube, Soundcloud, maps etc.

Screenshots of the Project / Photos of Working Model:



Applications: A smart mirror is a device that functions as a mirror with additional capability of displaying multimedia data, such as text, images and videos. This device allows users to access and interact with contextual information, such as weather data, seamlessly as part of their daily routine.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Credit Card with Face Recognition

Domain (Area of Project) : Authentication of Credit Card using Face Recognition

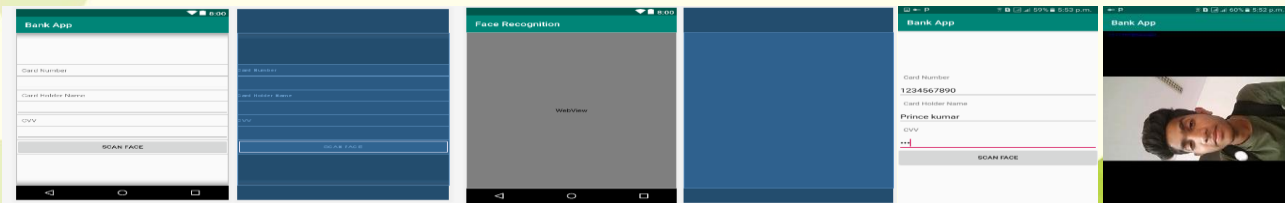


Name of Project Guide : Mr. Sudhir Lawand

Name of Students : 15203C0043 - Prince Kumar
15203C0018 - Soheli Khan
15203C0023 - Shreyas Tukrul
15203C0036 - Swatantra Singh

Brief idea of Project: Our proposed project-Credit Card Transaction with Face Recognition Authentication has been envisioned for the purpose of reducing the credit card frauds that may occur during an online payment process. The aim is to automate and make a system that provides a reliable and efficient mode of online transaction process.

Screenshots of the Project / Photos of Working Model :



Applications:

The natural use of face recognition is the replacement of PIN. It can be used for Government use in Law Enforcement, security, Immigration and Voter Verification.

It can also be used in Commercial Use like Residential Security and Banking/ATM.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Waste Segregation using Smart Dustbin

Domain (Area of Project) : Embedded System



Name of Project Guide: Ms. Anjali Gharat

Name of Students : 16203C0038 - Shruti Garg

16203C0019 - Sayuri Jadhav

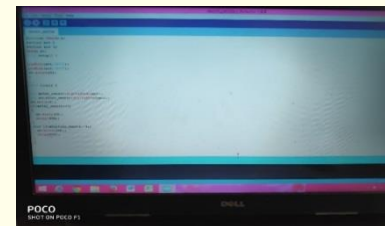
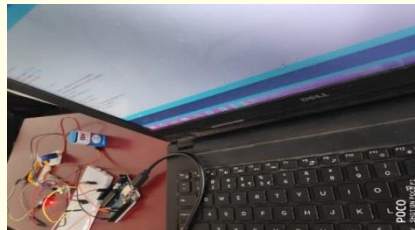
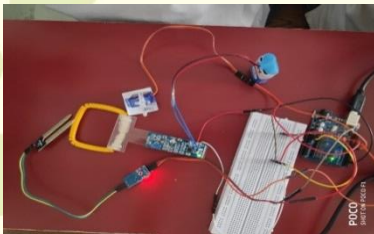
16203C0031 - Pratiksha Kawle

17203C1003 - Rudrashish Palav

16203C0021 Rahul Souda

Brief idea of Project : Waste segregation using smart dustbin is for the separation of dry , metal & wet waste. Waste has become a huge concern in todays world so this will help in separation of waste at the root source itself.

Screenshots of the Project / Photos of Working Model:



Applications:

1. For separation of dry , wet & metal waste at the root source.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : MFB Inspection App

Domain (Area of Project) : Android and Server Application Development



Name of Project Guide: Mr. Prasad Koyande

Name of Students : 16203A0061 - Aditya Chaurasiya
16203A0017 - Chiranjeev Jena
16203A0043 - Hardik Kharpude
16203A0034 - Samihan Sawant

Brief idea of Project : The Main Importance of making this project is to provide computerized integrated system for the Mumbai Fire Brigade (MFB) which will reduce the paper work. By using database we can record the details of the building and store the forms filled. The inspectors can send a notification to the user that their building will be inspected in the provided time and calculate fine. The user can also fill forms, send a photograph of which system is malfunctioning and then request delay , etc.

Screenshots of the Project / Photos of Working Model :



Application : This project will be used by the government and the citizens of Mumbai for fire security related aspects.
Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Food Ordering System

Domain (Area of Project) : Hardware and Software



Name of Project Guide: Ms. Sangeeta Wankhade

Name of Students : 17203A1005 - Rohit Jaiswal

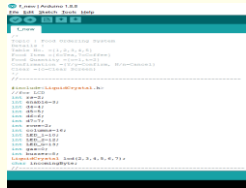
17203A1012 - Ashish Mourya

17203A1007 - Prajakta Narayankar

17203A1004 - Nikhil Jakate

Brief idea of Project: The traditional food ordering system is entirely a manual process which involves waiters, pen and paper. The waiter notes down the orders from customers, take these orders to kitchen department. It may involve errors while noting down the orders. Main intention of our project is to avoid such problems and to give solutions to such problems. In this project a Android App will be given to each waiter. Whenever customers come to table then waiter will select the desired order menu from the App. Once waiter is done then waiter can confirm order. At this time information will be sent to the kitchen of the restaurant. All this information will be displayed on a LCD. For this purpose we have used a wireless HC-06 Module at the kitchen side. So orders will be directly sent to the kitchen.

Screenshots of the Project / Photos of Working Model



Applications:

1. Mainly applied to middle and small hotels.
2. Restaurant

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Salon Appointment Management

Domain (Area of Project) : Android

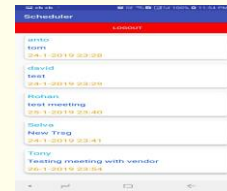


Name of Project Guide : Ms. Supriya Angne.

Name of Students : 16203A0033 - Kasturi Bait.
16203A0037 - Prajakta Ahir.
16203A0045 - Gayatri Gaikwad.
16203A0046 - Anushka Vanmore.

Brief idea of Project: As by the name we get to know that this is salon appointment management system and the user can get the appointment in their desired salons. This app is user-friendly and less time consuming. By this app the interaction between salons and new customers will increase.

Screenshots of the Project / Photos of Working Model:



Applications: It can be used locationwise and in local areas. It is useful in day to day life. It helps the user to get an appointment in their desired salon at any time they want.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Pocket Quiz

Domain (Area of Project) : Android



Name of Project Guide: Ms. Poonam Pawar

Name of Students : 16203A0003 - Adesh Jambhale

16203A0038 - Shantanu Ghuge

16203A0011 - Shubham Dongare

12203A0107 - Devansh Shah

Brief idea of Project:

'Pocket Quiz' is an android application that has questions related to Subjects of engineering like Java & C++. It has multiple choice questions.

Screenshots of the Project / Photos of Working Model :



Applications: Quick access for students to practise mock test

Awards if Any for TPP / Competitions / Paper Publication / Any Other PIs. Specify: -- NA

Program : Computer Engineering

Project Title : Shelter Don Bosco Application

Domain (Area of Project) : Android Programming



Name of Project Guide: Ms. Sonal Gupta

Name of Students : 16203A0025 - Omkar Kadam

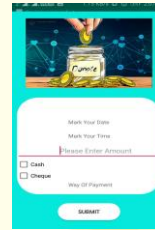
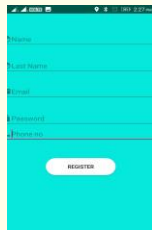
16203A0036 - Haresh Parab

16203A0041 - Prathamesh Kagane

16203A0051 - itesh Adsul

Brief idea of Project : Our application Shelter Don Bosco will provide people to donate money, useful things like groceries, toys, benches and chairs, books and stationary items, food and clothing, etc. It will also be useful for the people to make appointments with the care-takers of Shelter Don Bosco, to make appointment to Volunteer the children of Shelter Don Bosco, to make appointment to teach special skills to the children of Shelter Don Bosco like drawing, crafting, singing, dancing, etc. The application will allow the admin to know about the requirements of the Shelter and accept the donations accordingly.

Screenshots of the Project / Photos of Working Model:



Applications: Enrolment for Volunteering, Money Donation, Enrolment for Teaching Special Skills, Enrolment for Donation of Stationary Materials, etc.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : One Time Services

Domain (Area of Project) : Android Application

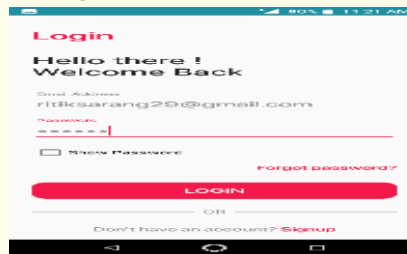


Name of Project Guide: Ms. Meenakshi Khamkar

Name of Students : 16203A0013 - Vipul Bhansali
16203A0016 - Sharvil Kadam
16203A0005 - Ritik Sarang
17203A1001 - Himanshu Meshram

Brief idea of Project : The main objective of the project is to provide online services to the people since today's world depends on internet, We provide them the services to hire maids, electricians, chefs and plumber online instead of searching them in our surrounding.

Screenshots of the Project / Photos of Working Model:



Applications: It helps in day to day life with very less effort.
It gives employment to the needy.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Smart Ambulance

Domain (Area of Project) : Android & Web Application

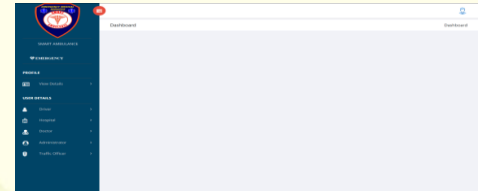


Name of Project Guide: Mr. Siddhesh Vaidya

Name of Students : 16203A0023 - Shrinath Gupta
16203A0039 - Ayush Sawant
16203A0056 - Rupesh Vanneldas
17203A1006 - Marzook Khatri

Brief idea of Project : A smart ambulance system which will be used for emergency situations in which it will help the patient in reaching the hospital as soon as possible. An ambulance driver will be given the facility of route tracking to the hospital (mapping using GPS). Live tracking will be provided to the central admin and Traffic Department. An alert will be generated if the ambulance's location is idle for a certain amount of time. A doctor in charge will be coordinated according to the emergency situation and will be engaged at the hospital for attending the patient. A feedback form will be given to the doctor for verifying the emergency details at the end of the day.

Screenshots of the Project / Photos of Working Model:



Applications: It can be used in government hospitals.
It can be used in online ambulance services websites.
It can be used in private agencies.

Program : Computer Engineering

Project Title : GPS Based Dengue Risk Index

Domain (Area of Project) : Mobile Application

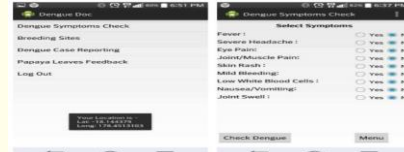


Name of Project Guide : Mr. Vijay Patil

Name of Students : 16203B0045 - Priyank Mishra
16203B0002 - Kashish Bhatia
16203B0057 - Viraj Kenekar
16203B0046 - Ishan Sathe

Brief idea of Project: An app that will give GPS based dengue Risk Index. A GPS enabled smartphone owner can find the susceptibility to dengue infection at the location where he/she is.

Screenshots of the Project / Photos of Working Model:



(a) Functions of the mobile application.

(b) Feature that allow users to select symptoms and check whether they are likely infected with Dengue Fever.



(a) Features that allow users to report a confirmed case of Dengue.

(b) Features that allow users to give feedback on the use of Papaya Leaves Remedy.

Applications:-

Government and Public Sector

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Family In

Domain (Area of Project) : Android



Name of Project Guide: Ms.Supriya Angane

Name of Students : 16203B0013 - Husain Thanawala

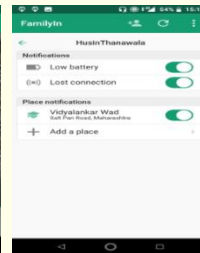
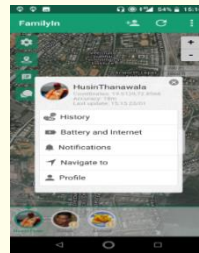
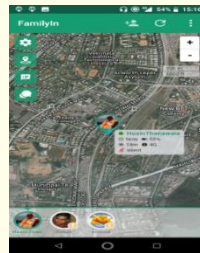
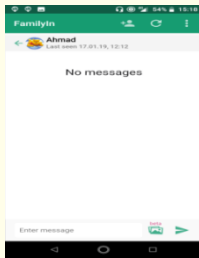
16203B0030 - Ahmad Ansari

16203B0006 - Tabish Ukaye

16203B0031 - Zuhair Abbas

Brief idea of Project: Family in is all in one family security app which shows live navigational location of all family members connected in the family account with all device details and an emergency alert option in case of an immediate help requirement.

Screenshots of the Project / Photos of Working Model:



Applications:

- i) Live Location
- ii) Device Details
- iii) Message Box
- iv) Location Zones
- v) Invite code Login
- vi) In app security
- vii) Parent Child Account
- viii) SOS Button

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Reward +

Domain (Area of Project) : Android



Name of Project Guide : Ms.Supriya Angane

Name of Students

: 16203B0015 - Jainam Mautha

16203B0038 - Rugved Shingre

16203B0037 - Rupesh Adhav

16203B0044 - Chaitanya Rathod

Brief idea of Project: After customer visit to the restaurant they will be provide with reward points .

Screenshots of the Project / Photos of Working Model:



Applications:

Booking of tables in Hotel

Food Ordering

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Car Services Applications

Domain (Area of Project) : Android Studio Project

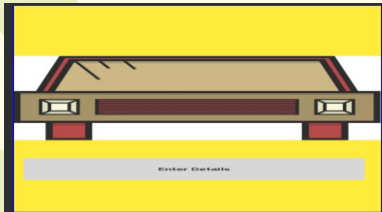


Name of Project Guide : Mr.Siddesh Vaidya

Name of Students : 14203B0057 - Dhruv Yogesh Kulkarni
16203B0009 - Shaik Mohd Nawaz
15203B0051 - Mane Aditya Prasana

Brief idea of Project: This project is useful for car servicing unit where application provides various services to customer related to car services and other facilities.

Screenshots of the Project / Photos of Working Model:



Applications:

This application is used to obtain car services

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Donation App

Domain (Area of Project) : Android Studio

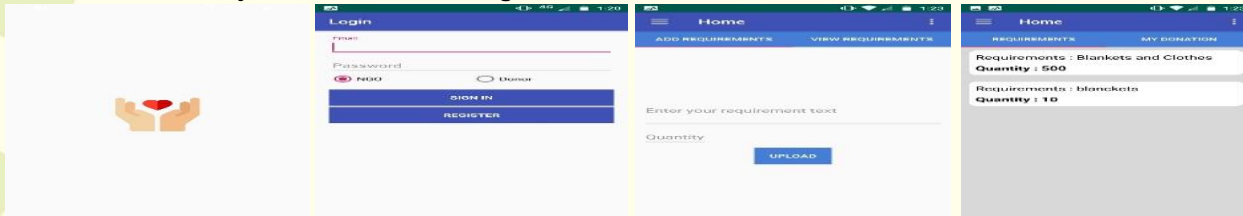


Name of Project Guide: Ms. Sayali Kadam

Name of Students : 16203C0007 - Rohan Ingale
16203C0029 - Yash Mhatre
16203C0003 - Shubham Sarang
15203B0030 - Atul Patil

Brief idea of Project: To enhance the communication between NGO's and Donor.

Screenshots of the Project / Photos of Working Model:



Applications:

Connects Donor to NGO's Directly through mobile application which will also save time of both.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Android Application for National Museum of Indian Cinema

Domain (Area of Project) : Android Application, Machine Learning



Name of Project Guide: Mr. Prasad Koyande

Name of Students : 17203C1002 - Sridhar Krishnan

17203C1007 - Mihir Vaidya

17203C1010 - Govind Gupta

16203C0048 - Hritik Jain

Brief idea of Project: Our project is an Android application for the National Museum of Indian Cinema. This application will act as a tour guide for the various visitors of the museum. It has features such as object detection, using which the visitors can scan the various exhibits in the museum using their smartphone's camera and get information about the scanned exhibit. There will also be a WiFi Positioning System which will guide the user through the museum premises.

Screenshots of the Project / Photos of Working Model:



Applications:

- Our application can be used for navigation using WiFi Positioning.
- Our application can be used to detect various objects.

Awards if Any for TPP / Competitions / Paper Publication / Any Other: -- NA

Program : Computer Engineering

Project Title : Google Assistant based application control

Domain (Area of Project) : IOT



Name of Project Guide: Ms. Poonam Pandire

Name of Students : 16203A0035 - Aniket Sonawale

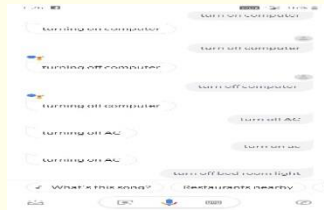
16203A0007 - Sahil kamble

16203A0054 - Hrithik Walam

16203A0008 - Surojit Kotian

Brief idea of Project : Home it is place where one fancies or desires to be after long tiring day. people come home exhausted after a long hard working day. Some are way too tired that find it hard to move once they land in their on couch sofa or bed.so any small device/technology that would help them switch theirs lights on or off, or play their favourite music etc. On a go with their voice with the aid of their smart phones would make their home more comfortable

Screenshots of the Project / Photos of Working Model:



Applications: This proposed System presents a proposal for home automation using voice via Google Assistant. Home automation or demotics a term for home automation coined by Jim Hill has been evolving drastically. We saw many home automation technologies introduced over these years from Zigbee automation to Amazon Echo, google Home and home from Apple.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : IOT Based Waste Management System

Domain (Area of Project) : Internet Of Things (IOT)



Name of Project Guide : Ms. Sheetal Shelar

Name of Students : 16203A0014 - Aniket Patade

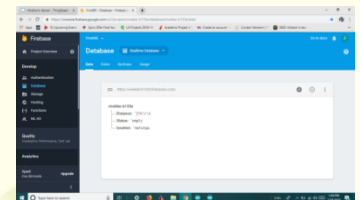
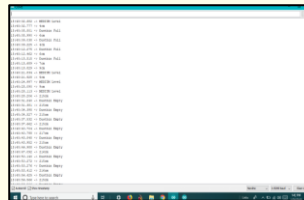
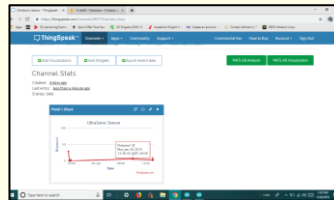
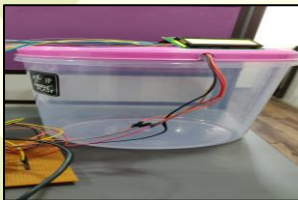
16203A0026 - Utkarsha Bhosale

16203A0027 - Sayali Khamgaonkar

16203A0028 - Vivek Kalambe

Brief idea of Project: IOT Based Waste Management System will help the modern day waste for proper disposal according to the filled dustbin and ask the garbage car to collect it on time and on the correct location of the dustbin. Distance between the sensor and the waste will be displayed on database and LCD screen and help for collecting data of that dustbin

Screenshots of the Project / Photos of Working Model:



- Applications:**
1. Empowered Swachh Bharat Mission.
 2. E-governance Based On Digital India.
 3. Reduce Environment Pollution

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Intelligent Automated Watering Plant Using IOT

Domain (Area of Project) : IOT



Name of Project Guide: Ms. Meenakshi Khamkar

Name of Students : 16203A0060 - Komal Bhamble

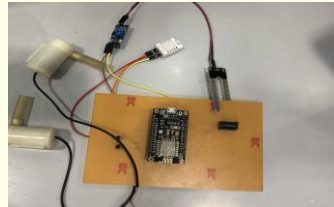
17203A1003 - Poonam Chauhan

17203A1013 - Ritik Sirsikar

17203A1014 - Vedant Dichwalkar

Brief idea of Project : A Arduino based automatic irrigation IOT system is proposed to modernization and improves productivity of the crop. main aim of this work to crop development at low quantity water consumption, In order to focus on water available to the plants at the required time, for that purpose most of the farmers waste lot time in the fields.

Screenshots of the Project / Photos of Working Model:



Applications: Useful in agriculture

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Automated Pet Feeding

Domain (Area of Project) : IoT

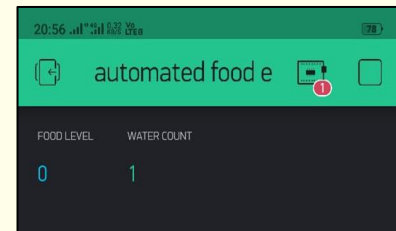
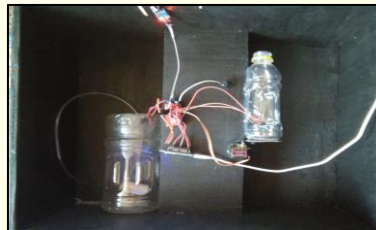


Name of Project Guide : Ms. Manisha Pokharkar

Name of Students : 16203B0017 - Rashmin Patil
16203B0020 - Guarav Mahind
16203B0060 - Subodh Chalke
16203B0035 - Atharva Jagdale

Brief idea of Project : This project uses an ESP8266 WIFI board via the Blynk Mobile app to trigger a measure of dry food for your dog or cat or in a suitable outdoor enclosure Only a few basic electronic components are used and any wiring is kept to a minimum.

Screenshots of the Project / Photos of Working Model



Applications : Feeding multiple pets through IoT, Poultry farm.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Krishimitra
Domain (Area of Project) : IoT Based Smart Soil Monitoring System

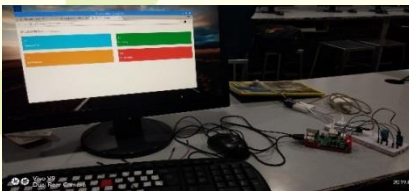


Name of Project Guide: Mr. Prasad Koyande

Name of Students : 16203C0028 - Yash Jadhav
17203C1017 - Sahil Yadav
16203C0027 - Shazia Shaikh
16203C0039 - Ruksar Inamdar

Brief idea of Project : Our idea is to make our farmers do technological oriented farming which will help them to grow good crops is providing them with a facility in a form of Web Application and Android Application that will help them in monitoring farm and weather continuously. Using our application our farmers can monitor humidity, temperature, moisture, atmospheric pressure, view of the field and soil quality by placing different type of sensors such as pH sensor, humidity sensor, temperature sensor, moisture sensor and atmospheric pressure sensor and camera in the farm which help the farmer to cultivate good and healthy crop. All the sensor are connected with raspberry pi through which sensor's are controlled and values of sensors are collected and transferred to the server through which it is on display on the android app.

Screenshots of the Project / Photos of Working Model :



Applications:

1. It tests soil by various sensors such as pH sensor , temperature sensor ,humidity sensor and moisture sensor.
2. It identifies soil nutrients or soil chemical factors that are limiting plant growth.
3. Automatic irrigation system.

Program : Computer Engineering

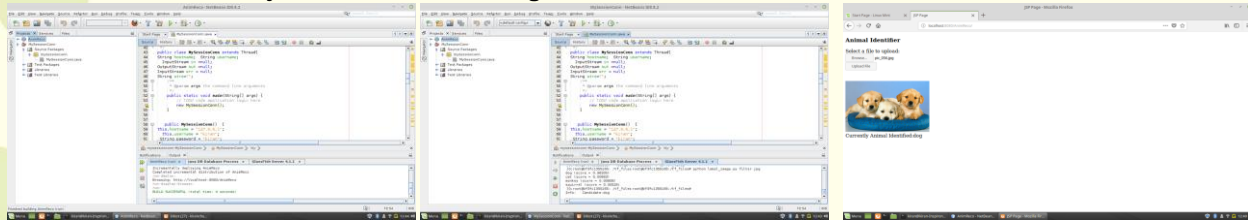
Project Title : Recognition & Classification of Animals based on Texture Features through Parallel Computing
Domain (Area of Project) : Image Processing



Name of Project Guide : Ms. Sangeeta Wankhede
Name of Students : 16203B0012 - Shivani Adepu
17203B1004 - Kiran Chauhan

Brief idea of Project: Recognition and Classification of Animals based on Texture Features through Parallel Computing

Screenshots of the Project / Photos of Working Model



Applications : zoo, museum, animal exhibition. Also it can be used by people via application .

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Defining body parameters and building up of Human image from poorly captured video.

Domain (Area of Project) : Image Processing



Name of Project Guide: Ms. Vaishali Malkar

Name of Students : 16203C0034 - Pratiksha Jain

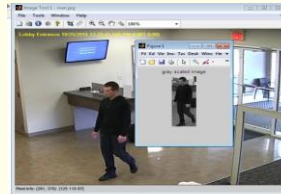
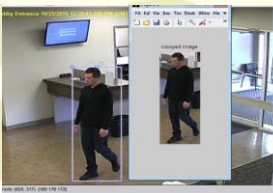
16203C0037 - Shivam More

16203C0010 - Sohail Khan

16203C0009 - Arsalan Shaikh

Brief idea of Project : Algorithm is designed that calculates the height , weight and Body Mass Index(BMI) of an object(Human Being) through the body language of a person, let only the face, head, palm or any of the body part is seen that can be used to find the height of the human using phi theory. It will be available in a particular Operating System of a particular Desktop. MATLAB(Matrix Laboratory) programming language is used for the coding of this software. Leonardo da Vinci's phi theory is used to figure out the body ratio of human body. This software will be further used for image enhancement like removing noise, sharpening of image.

Screenshots of the Project / Photos of Working Model:



Applications:

MATLAB , Visual Basic or MATLAB GUI.

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Program : Computer Engineering

Project Title : Shoulder Surfing Resistance

Domain (Area of Project) : Security



Name of Project Guide: Mr. Siddhesh Vaidya

Name of Students : 16203B0040 - Hrithik Sawant
16203B0005 - Shubham Morajkar
16203B0008 - Mahesh Tejam
16203B0043 - Vaibhav Bagade

Brief idea of Project : Observing that most users are more familiar with textual passwords than pure graphical passwords, so Zhao et al. proposed a text-based shoulder surfing resistant graphical password scheme, In S3PAS, the user has to mix his textual password on the login screen to get the session password.

Screenshots of the Project / Photos of Working Model:



Applications:

ATM machine , desktop application , Company security system

Awards if Any for TPP / Competitions / Paper Publication / Any Other Pls. Specify: -- NA

Final Year Project Committee
Program : Computer Engineering



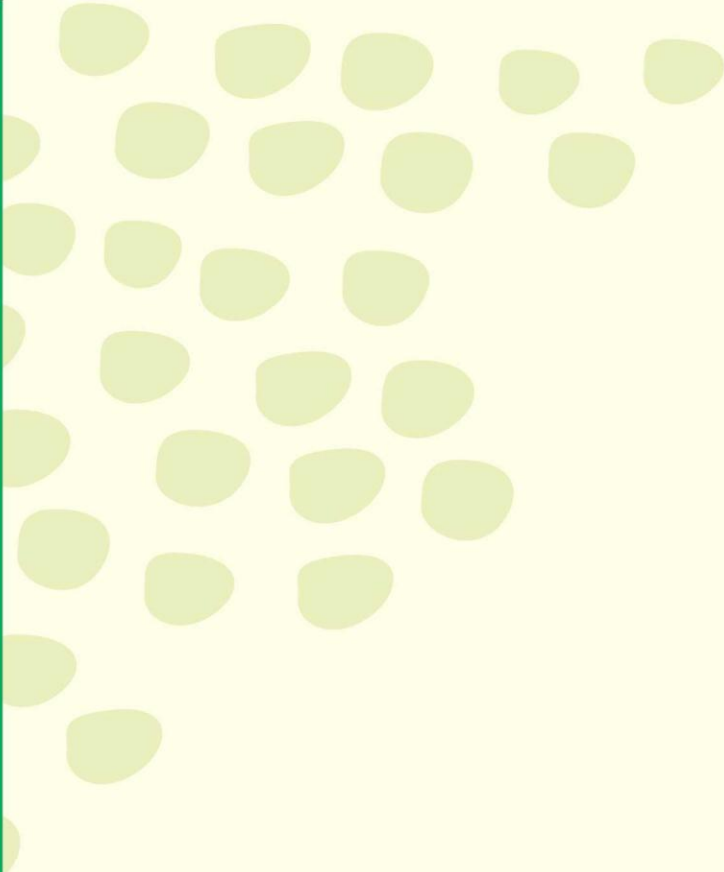
Mr. Vijay T. Patil
(Head, Department of Computer Engineering)



Ms. Supriya Kadam
(Project Coordinator)



Mr. Prasad Koyande
(Project Coordinator)



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