



*V-Ideas*

**Department of Information Technology**

*(NBA Accredited)*

**2017-18**







# *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 Electronics and Telecommunication Engineering, Information Technology and Computer 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 2017-18*

***"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 ii 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.



# *V-ideas culminates V-Technovation 2017-18*



# *Department of 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.

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# Department : Information Technology

**Project Title** : **IoT Based Home Security**

**Domain (Area of Project)** : **Internet of Things**



**Name of Project Guide** : **Prof. Archana Gopnarayan**

**Name of Students** : Viraj Parmar  
Saurabh Mehta  
Sujoy Barua  
Omkar Pednekar

## **Brief idea of Project:**

A model of home security system that utilizes sensors and internet to monitor the security status in real-time. To implement a fully functional Home Automated Security Model to manage and operate the home appliances.

## **Screenshots of the Project**



## **Applications:**

Students are engaged through visually-stimulating videos. Teachers can use VPTUBE videos to introduce a topic, explain an online activity and motivate students.

Uploading videos in VPTUBE makes it available to all the students who can access and view it from any location.

# Department : Information Technology

**Project Title** : **IoT Based Smart Agriculture**

**Domain (Area of Project)** : **Internet of Things**



**Name of Project Guide** : **Sridevi Taradi**

**Name of Students** : Anuja Dhanu  
Priyanka Hanchate  
Aakanksha Gunjal  
Komal Pawar

## Brief idea of Project:

The aim of this project is to develop embedded system with help of internet to create smartness in farming system. The system has a microcontroller, temperature, humidity, soil moisture and light intensity sensor. Internet technology is used to develop a web application. Data transmission is done through Wi-Fi Module. User can set level of temperature, humidity, soil moisture and light intensity.

## Screenshots of the Project



## Applications:

- It constantly monitor and control environmental conditions in greenhouse to ensure that it remains at present temperature, humidity, soil moisture and light levels.
- It focuses on saving water, increasing efficiency and reducing the environmental impacts on plants production.
- The user can see the atmospheric conditions of the greenhouse plant on website and control the greenhouse from far away places.



# Department : Information Technology

**Project Title** : V-Live  
**Domain (Area of Project)** : Web Technology



**Name of Project Guide** : Archana Gopnarayan

**Name of Students** : Dhruva Hatode  
Mandar Shedge  
Mayuresh Dangat  
Rahul Hirlekar

## Brief idea of Project:

IV-Live is a website designed to make it easy for students to get access to all the study material easily from anywhere and via any device. This also helps the faculty by reducing physical efforts and decreasing the time taken to share it as they can easily upload everything to the website and share it with the students without having to create a hard copy for everyone and personally distribute it.

## Screenshots of the Project



## Applications:

- For sharing study material.
- To view exam results.
- Conveniently access assignment questions provided by the faculty.



# Department : Information Technology

**Project Title** : AppVirtualizer  
**Domain (Area of Project)** : Web Technology

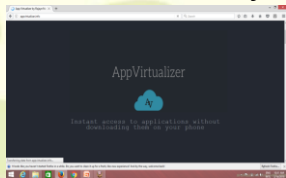


**Name of Project Guide** : Prof. Sunil Dodake  
**Name of Students** : Balkrushna Walke  
Rajaye Narkar  
Atharvan Chavan  
Vigneshwaran Pulavar

## Brief idea of Project:

AppVirtualizer aims at running multiple application on cloud and rendering them on your device's browser. App Virtualizer aims at running all android application cloud on an android simulator and rendering an instance of the required application on the browser on user demand.

## Screenshots of the Project



## Applications:

- Useful for application developers.
- Resolve memory constraint issues.
- Provides a virtual android environment

# Department : Information Technology

**Project Title** : **Online Bakery System**

**Domain (Area of Project)** : **Web Technology**



**Name of Project Guide** : **Prof. Yogita Jore**

**Name of Students** : Nihaar Parkar

Sahil Lad

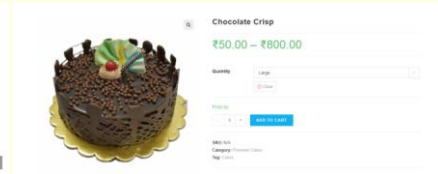
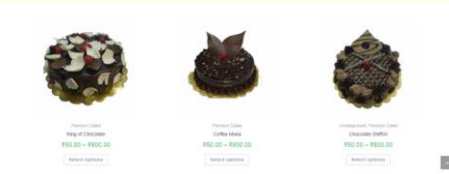
Varun Rajak

Vedant Sawant

## Brief idea of Project:

The project objective is to deliver the online website for bakery where customer could view and select the bakery item and order the same and the customer will get the service of online shopping and home delivery

## Screenshots of the Project



## Applications:

- Retail and wholesale: Listing the product and handling its retail.
- Analysis: Managing what's exactly going on with your marketing campaigns.
- Finance management: Shipping and Handling the transactions.

# Department : Information Technology

**Project Title** : **FIND MY BOOK**  
**Domain (Area of Project)** : **Web Technology**



**Name of Project Guide** : **Prof. Yogita Jore**  
**Name of Students** : Ritu Patel  
Riya Patel

## Brief idea of Project:

FIND MY BOOK is a web based application which provides a platform to the students to buy and sell their books anytime, anywhere at their convenience

## Screenshots of the Project



## Applications:

- This system can be used in university or college to provide a platform among students to buy and sell books.

# Department : Information Technology

**Project Title** : **Mobile Handset Reimbursement**

**Domain (Area of Project)** : **Web application**



**Name of Project Guide** : **Sushma Pawar**

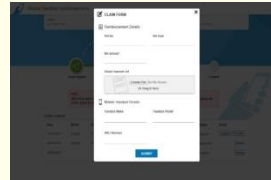
**Name of Students** : Simran Pawar

Isha Pawar

## Brief idea of Project:

This is an industry sponsored project. The sponsors being Godrej Properties pvt. Ltd. As the name suggests, the project is about Mobile Handset reimbursement. Reimbursement over here is the action of sanctioning some amount of money to an employee through the company based on his/ her designation to buy the handset.

## Screenshots of the Project



## Applications:

- Claim your reimbursement in one go
- Employee as well as authorities will save a good amount of time
- Easily accessible and understandable to any employee

# Department : Information Technology

**Project Title** : **Sports Event Management System**

**Domain (Area of Project)** : **Web application**



**Name of Project Guide** : **Prof. Purna Jalgaonkar**

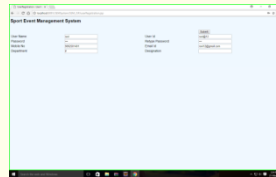
**Name of Students** : Neeraj Mishra

Sarthak Patil

## Brief idea of Project:

The main purpose of this project is to simplify the process of handling each sports event by providing a web interface for admin and teacher. The admin part consists of multiple modules to initiate with the sports event by adding the type of sport (indoor or outdoor), adding student who are interested in a particular sports activity, adding teachers who will conduct the particular sports activity which is allotted by the admin itself.

## Screenshots of the Project



## Applications:

- "Sports Event Management System" project which helps students to save a lot of time in searching for games being conducted in various colleges. Our project provides students to get register from anywhere and anytime.

# Department : Information Technology

**Project Title** : **Virtual Classroom**

**Domain (Area of Project)** : **Web application**



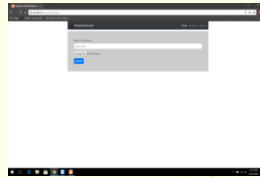
**Name of Project Guide** : **Prof. Perna Jalgaonkar**

**Name of Students** : Mohit Kejriwal  
Rishikesh Gorule  
Siddhesh Kale  
Vivek Ambetkar

## **Brief idea of Project:**

The objectives of a Virtual Classroom are to improve access to advanced educational experiences by allowing students and instructors to participate in remote learning communities using personal computers at home and to improve the quality and effectiveness of education by using the computer to support a collaborative learning process.

## **Screenshots of the Project**



## **Applications:**

- View lecturers uploaded by respective lecturer from home.
- Lecturers can send SMS/E-Mail to parents regarding Attendance.
- Students can ask question to lecturer regarding particular lecture uploaded

# Department : Information Technology

**Project Title** : **Student Parent-Teacher Meeting Point**

**Domain (Area of Project)** : **Web application**



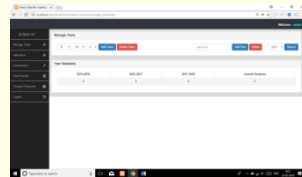
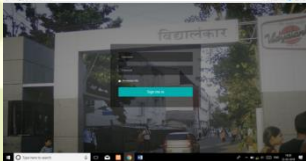
**Name of Project Guide** : **Prof. Shraddha N.**

**Name of Students** : Aniket Navale  
Mohd Faizan  
Sayali Gujar

## **Brief idea of Project:**

It mainly focuses on maintaining transparency between teachers and parents. It helps parents to keep updated with their child's performance.

## **Screenshots of the Project**



## **Applications:**

- Parent can track their child's attendance.
- Parent will get updates by teachers time to time.

# Department : Information Technology

**Project Title** : **Online Election System**

**Domain (Area of Project)** : **Networking**



**Name of Project Guide** : **Prof. Shonal Vaz**

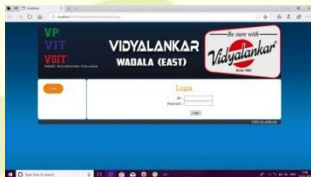
**Name of Students** : Muzammil Momin  
Swapnesh Chogle  
Shripad Tambat

## Brief idea of Project:

The Idea of the project is to design a system which will allow us to conduct elections online.

The main concept of the project is to build a website which will allow the people to cast their vote online. With the help of these working load will be reduced and it will also provide security to the data.

## Screenshots of the Project



## Applications:

This system can be used by :-

- Schools
- Offices
- Colleges
- Companies



# Department : Information Technology

**Project Title** : **Online Diagnostic Lab Reporting System**

**Domain (Area of Project)** : **Networking**



**Name of Project Guide** : **Prof. Madhura Mokal**

**Name of Students** : Adesh Kamble

Suraj Gohil

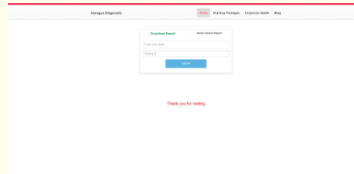
Yash Mundhe

Prathamesh Chavan

## Brief idea of Project:

It is an online diagnostic lab reporting system where you can book your test and get tested either at home or at a lab and can get your report online right on your log in id.

## Screenshots of the Project



## Applications:

To manage the appointments of the test online useful in Clinic and diagnosing lab.

# Department : Information Technology

**Project Title** : **Employee Tracking System**

**Domain (Area of Project)** : **Networking**



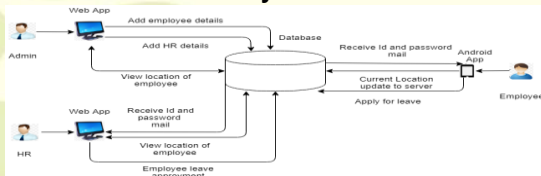
**Name of Project Guide** : **Prof. Chetashri Bhusari.**

**Name of Students** : Khan Saalim  
Sumar Sohail  
Faisal Qureshi  
Rohit Nilkanthgurav

## Brief idea of Project:

The aim of this research Employee monitoring system using android mobile is, to automate the employee monitoring process in company by their Employee's and also improve the organizational growth of the company. This application is user-friendly. This system improves accuracy in managing employees of the company by saving time and reducing manager efforts. HR can monitor their Employees through Web application and know the employee location and details.

## Screenshots of the Project



## Applications:

- Attendance management through android app.
- Check location and details of employee
- Employee can apply for leave

# Department : Information Technology

**Project Title** : **Intrusion Detection System**

**Domain (Area of Project)** : **To analyze a network (spiteful commotion or chaos)**



**Name of Project Guide** : **Madhura Mokal**

**Name of Students** : Taha Khan  
Siddhant Dhende  
Roshini Gangan

## **Brief idea of Project:**

The Idea of the project is to design and Construct a home automation system which will remotely switch on or off any household appliances like light, fan, air conditioner connected to it, using Raspberry Pi (Project Board). Operations of remotely switching on or off can be performed via any device which is connected to the internet.

## **Screenshots of the Project**



## **Applications:**

- Anti-spam as an intrusion detection system : SPF and DKIM,
- Anti-spam sender reputation as behaviour analysis.

# Department : Information Technology

**Project Title** : Preventing System Data Using Honeywords

**Domain (Area of Project)** : Security



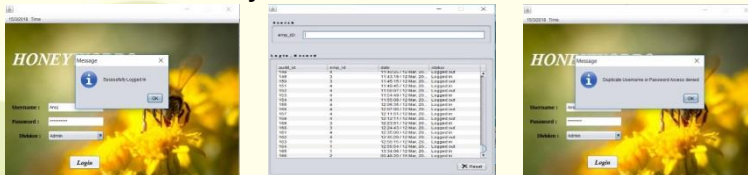
**Name of Project Guide** : Siddhesh Vaidya

**Name of Students** : Anoj Thakur  
Chaitanya Desai  
Tanveer Bansal  
Rucha Kalke  
Shubham Darekar

## Brief idea of Project:

For improving the security of hashed passwords: the maintenance of additional “honeywords” (false passwords) associated with each user’s account is suggested. An adversary who steals a file of hashed passwords and inverts the hash function cannot tell if he has found the password or a honeyword. Organizations can increase the customer comfort, while maintaining the secrecy, by storing bunch of decoy passwords or “honeywords” corresponding to the correct password in the hashed password database. The attempted use of a honeyword for login sets off an alert to Admin.

## Screenshots of the Project



## Applications:

- Our Project will be used in Companies.
- Our Project will be used in Educational Institutes.

# Department : Information Technology

**Project Title** : Local Train Ticket Booking Using Barcode

**Domain (Area of Project)** : Security



**Name of Project Guide** : Prof. Madhura Mokal

**Name of Students** : Vivek Gupta  
Anand Dharmana  
Dhrashan Parab  
Rahul Gupta  
Akash Jaiswar

## Brief idea of Project:

The main objective behind this project is time saving of the local passengers by booking their ticket with their mobile phones from anywhere. There will be no requirement of standing in the queue for tickets. People travelling first time in the trains will be more comfortable as there will be maps of the local trains track in it.

## Screenshots of the Project



## Applications:

- Booking the local train tickets from anywhere using smartphones

# Department : Information Technology

**Project Title** : **Wireless Biometric Based Attendance System**

**Domain (Area of Project)** : **Security**



**Name of Project Guide** : **Shonal Vaz**

**Name of Students** : Vanshika Patil

Srushti Karle

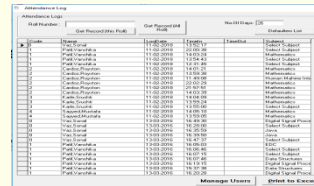
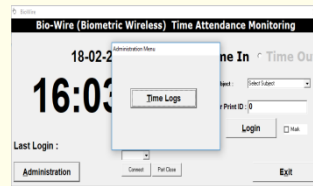
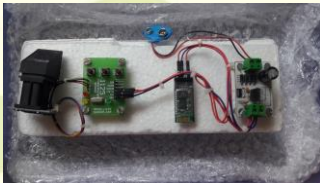
Mujtaba Sayyed

Roystan Cardoz

## Brief idea of Project:

A secure and effective identity management system plays an important role in the successful deployment of an attendance management system. Fingerprint becomes the most mature and popular biometric technology used in automatic personal identification. The reason for the popularity of fingerprint verification is that fingerprint satisfy uniqueness, stability, permanency and easily taking. The ghost worker syndrome which has become a menace across all tiers of government, employers concerns over the levels of absence in their workforce and difficulty in managing student attendance during lecture periods.

## Screenshots of the Project



## Applications:

- Voter registration and identification
- Population census by using biometric

# Department : Information Technology

**Project Title** : Secondary Level Authentication Using Keystrokes Dynamic  
**Domain (Area of Project)** : Security



**Name of Project Guide** : Chetashri Bhusari  
**Name of Students** : Abhishek Desai  
Abhishek Jaiswal  
Siddhesh Raikar  
Jaison John  
Rahul Nair

## Brief idea of Project:

As we press into the twenty-first century, new challenges abound. Advanced safeguards against fraud and impersonation, as well as foolproof measures against unauthorized access to computer resources and data are now being sought.

## Screenshots of the Project



## Applications:

- Records can be easily accessed and store and other information respectively.
- The application will be giving a very user-friendly approach for all user.

# Department : Information Technology

**Project Title** : Steganography With 3 Way Encryption

**Domain (Area of Project)** : Security



**Name of Project Guide** : Prof. Sayali Mane

**Name of Students** : Neha Nivalakar

Hardik Naik

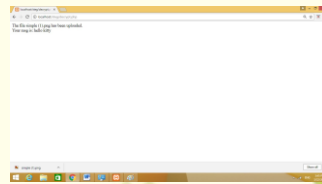
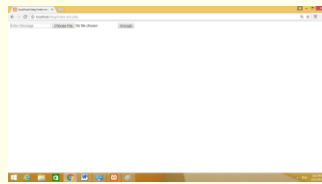
Harish Gholap

Rohan Mulay

## Brief idea of Project:

Steganography with 3 way encryption is a program in which a text format or an audio file or any type of format is been hidden under image format via different security norms. There are 3 ways via these format is been secured in image format.

## Screenshots of the Project



## Applications:

- Authentication
- E-commerce
- Photo collection which allows detection of unauthorized user



# Department : Information Technology

**Project Title** : Evaluation of Academic Performance

**Domain (Area of Project)** : Database



**Name of Project Guide** : Sushama Pawar

**Name of Students** : Sameeksha Kadu

Pratik Ziman

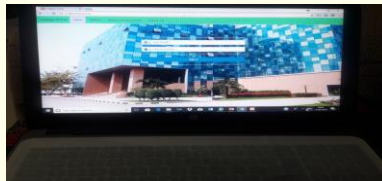
Sneha Mane

Ankita Shelke

## Brief idea of Project:

Our project is an Web development which will reduce the paper work of various schools and colleges. Our website proves useful for the college faculty making their work more easy. It helps to track college assignment ,time table, exam result ,attendance entry and it enable a communication between a teacher and parents/student. The main operation of this project is to automate the process of calculating internal marks for students. Also it helps teacher to send the notification of parents meeting through message/mail..

## Screenshots of the Project



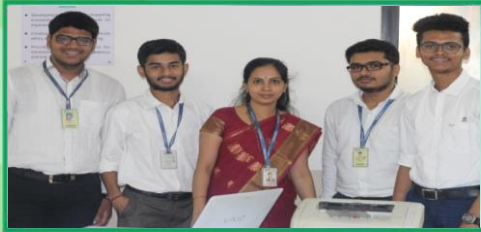
## Applications:

- This Software System Enable Education Institution To Supervise Student Related Activities.
- With the help of this application student are available to see their notes as per their requirement.
- The mail application of our project is that teachers can mail the student details to their parent.

# Department : Information Technology

**Project Title** : **Visitor's Management System**

**Domain (Area of Project)** : **Database**



**Name of Project Guide** : **Mrs.Yogita.Jore**

**Name of Students** : Rohan Tripathi

Siddharth P

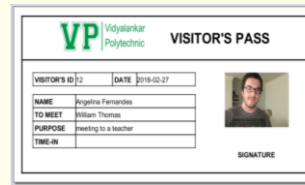
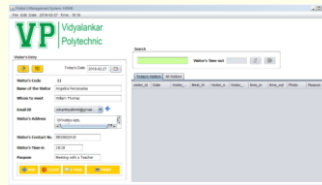
Jayesh Sarang

Yash Davkhar

## Brief idea of Project:

Visitor Management System is specially designed to keep track of visitor coming and going out of the premises. With this system you will be able to expedite the visitor registration process, determine who is still inside of the premises & the number of visitors who visited the premises. The Designated Person will be notified by an E-mail sent through the same system.

## Screenshots of the Project



## Applications:

- Our project can be used in Government Organization
- Our project can be used in Educational Institutes.

# Department : Information Technology

**Project Title** : **Library Management System**

**Domain (Area of Project)** : **Database**



**Name of Project Guide** : **Prof. Sridevi Taradi**

**Name of Students** : Devang B Dhanawde

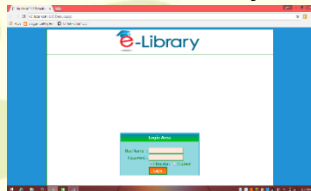
Yash A Hankare

Shyam Baiballi

## Brief idea of Project:

Library management system is a project which aims in developing a computerized system to maintain all the daily work of library. This project has many features which are generally not available in normal library management systems like facility of librarian login and a facility of student login .It also has a facility of admin login through which the admin can monitor the whole system.

## Screenshots of the Project



## Applications:

- Using library management system the librarian can catalogue and maintain all types of books.
- Provision to request for new books.
- Automatic fine fees calculation.

# Department : Information Technology

**Project Title** : RF Controlled Metal Detector Robot

**Domain (Area of Project)** : Embedded System



**Name of Project Guide** : Prof. Sayli Mane

**Name of Students** : Samrat Mandal

Mandar More

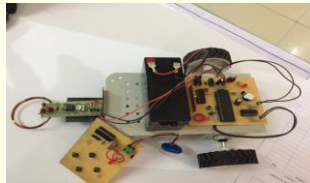
Prem Vaity

Pankaj Gupta

## Brief idea of Project:

The project is designed to develop a robotic vehicle that can sense metals ahead of it on its path similar to sensing landmines. The robot is controlled by a remote using RF technology. It consists of a metal detector circuit interfaced to the control unit that alarms the user behind it about a suspected landmine ahead.

## Screenshots of the Project



## Applications:

- Using library management system the librarian can catalogue and maintain all types of books.
- Provision to request for new books.
- Automatic fine fees calculation.

# Department : Information Technology

**Project Title** : Quick Ambulance  
**Domain (Area of Project)** : Mobile Application



**Name of Project Guide** : Samidha Chavan

**Name of Students** : Rohini Deshmukh

Rohit Jadhav

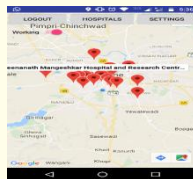
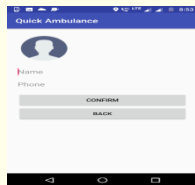
Ajinkya Jadhav

Swati Lokare

## Brief idea of Project:

The application proposed is an advanced solution for ambulance system. This project was developed to drive patients to nearest hospitals, information of blood donation camps and finding nearest hospitals. This project has two interfaces. The first is driver login, which will be used by the ambulance driver. The second is user (patients), which will be used by patients to request ambulance.

## Screenshots of the Project



## Applications:

- Emergency situations.
- Hospitals, Medical Facilities.

**Awards** :- 3rd Place in National Level Project Presentation Competition.

# Department : Information Technology

**Project Title** : V- Notes  
**Domain (Area of Project)** : Mobile Application



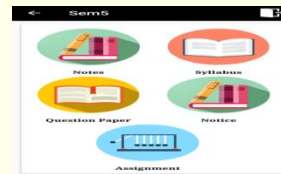
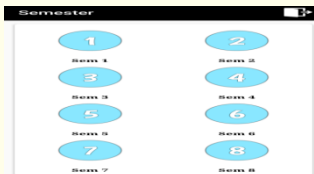
**Name of Project Guide** : Mr. Sunil Dodake

**Name of Students** : Jitendra Yadav  
Keshav Barai  
Rushikesh Sawant

## Brief idea of Project:

The V--Notes Android application can be used to share any important data, notes, timetable, notifications or any other information needed .The students can download the documents of the particular semester that they need.

## Screenshots of the Project



## Applications:

- The application can be used in all engineering /non engineering colleges.
- The application will be giving a very user friendly approach for all user.

# Department : Information Technology

**Project Title** : Docket  
**Domain (Area of Project)** : Mobile Application

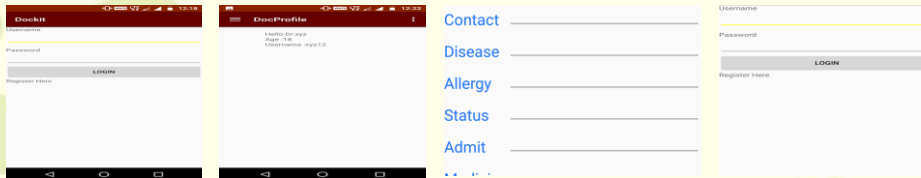


**Name of Project Guide** : Samidha Chavan  
**Name of Students** : Gayatri Khandare  
Chinmay Deorukhkar  
Yash Harchekar  
Ashif Shaikh

## Brief idea of Project:

The Idea of the project is Docket (a doctors management tool) is an application that assists the doctor in managing their daily curriculum, their patients information, disease, medicines. Our application also provides various security aspects for maintaining the privacy of individual doctors using the same application by creating an application different table for maintaining different patients record.

## Screenshots of the Project



## Applications:

- Can used in all Smartphones.
- Very useful for doctors.

# Department : Information Technology

**Project Title** : V-wallet  
**Domain (Area of Project)** : Web and Application



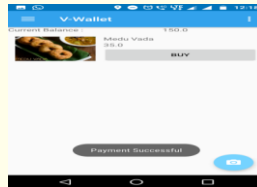
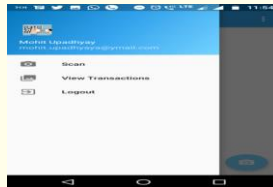
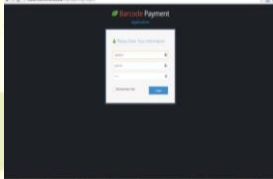
**Name of Project Guide** : Bhagyashree kulkarni.

**Name of Students** : Mohit Upadhyay  
Aashi Chaurasia  
Shweta Poojary  
Siddhi Revadkar

## Brief idea of Project:

This is a cashless payment system based on barcode. Students will have an application in which barcode of the product will be scanned ,and the system will get access to the student account and the money will be deducted from their accounts, this will be handled by the admin.

## Screenshots of the Project



## Applications:

- Better planning, control and management over campus payments.
- Reduced administration overheads and costs.
- Direct savings through better cash flow management.



# Department : Information Technology

**Project Title** : Access Control Plus

**Domain (Area of Project)** : Mobile Application



**Name of Project Guide** : Sayali Mane

**Name of Students** : Ashutosh Mahadik

Usman

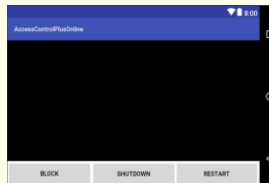
Prince Yadav

Kashif shaik

## Brief idea of Project:

This Project is used to monitor the activity on the system and we can allow and deny the access by using android application which is connected to wifi or any other networks.(Android application and Desktop application is connected to the database).

## Screenshots of the Project



## Applications:

- We can allow and deny the access from anywhere.
- Prevent data loss.
- We can monitor our system.

*Project Committee*  
*Department of Information Technology*



**Ms. Yogita Jore**



**Ms. Archana Gopnarayan**



**Ms. Prerana Jalgaonkar**





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