

COMPUTER ENGINEERING DEPARTMENT

Event Description

The event KIAZEN – 2K18 was celebrated by Computer Engineering Department of the institute with great enthusiasm and support by all faculty members and students. The event was inaugurated with formal welcome and introduction of the juries by the Head of Department, Prof. Dr. D.A. Parikh.

Total **57 UG group** projects of **145 students**, **15 individual research projects** of **PG students**, **12 group projects of Masters of Computer Application** were invited. After going through the crucial filtration process more than 17 projects from UG, 9 research project and 7 projects from MCA were on display. The venue was full of students, staff, parents and visitors almost throughout the one and half day. The students were very happy to show case their work to all the visitors. The environment had been very vibrant on that day.

Mr.Suketu Nayak from **GETWINGS Technologies, Ahmedabad**, **Mr. Bhavin Patel** from **KRISH CompuSoft Services**, **Mr. Dilip Bagrecha** ,**Wishtree Technologies** and **Mr. Jay Vora**, **SERPENTS Consultancy Services, Gandhinagar** had extended their help as juries for the event. All the judges have taken keen interest in observing each and every project of UG and PG students. The judges were delighted to see the overwhelming response of the students.



Group Photo of Computer Dept. with Judges



Prof (Dr.) D.A. Parikh felicitating Judge



Evaluation begins at DBMS LAB



ME students with Coordinator and Judge



Students were keen to explain their work

Under Graduate Winners

First winner

Project Title: BABY MONITORING SMART CRADLE

Prepared by:

Name	Enrollment no
Manas Dhruve	140280107018
Riya Doshi	140280107020
Divya Bhatia	140280107006

Guided by: Prof. Tushar Champaneriya

Basically the idea is to make Baby Monitoring Smart Cradle using IOT and cloud computing.

As we are very well familiar with the hurdles faced by the Parents to nurture their infant and especially in case if both the Parents are working.

In order to make their task easier, we have come up with an innovative idea to design a Smart Cradle System using IOT which will help the Parents to monitor their child even if they are away from home & detect every activity of the Baby to notify them through a Smart Phone (Mobile Application).

The sensors attached will detect all the activities (like humidity, weight, expressions, noise, crying sound) and notify the Parents.

All the data which is been taken from the sensors will be stored in Cloud (Google Firebase) & analysed at regular intervals.

The Mobile Application has UI controls which include the feature of controlling the webcam which monitors the baby, there we also have a controls for playing the toy/projector when ever baby cries and the swing of the cradle too.

It also has the messaging features through which parents' nanny or grandparents can interact and are able to send the required and urgent messages.

Second winner

Project Title: VIDEO SHORTENING

Prepared by:

Name	Enrollment no
Aashka Patel	140280107061
Rida Kadri	140280107032

Guided by: Prof. Tushar Champaneriya

A novel approach for providing only the CRISP CONTENT of a video in shorter duration than the actual video duration using crowd sourcing.

It is a HIGHLIGHTING TOOL FOR VIDEOS with multiple utilities.

The key features of our project are:

User can HIGHLIGHT the important parts of a video & ADD COMMENTS to individual highlights for reviewing it later on.

They can even SHARE THESE HIGHLIGHTS to their friends in a SINGLE LINK & save their time. They can get the CRISP CONTENT of a video by just watching CROWDSOURCED HIGHLIGHTS & save their time.

It's completely HASSLE-FREE. All these without the need of downloading the video or any video editing app.

Third Winner

Project Title: Speak Now

Prepared by:

Name	Enrollment no
Arati Parmar	150283107019
Rutu Raval	150283107026
Priyanka Tiwari	150283107034

Guided by: Prof Tushar Raval

Main Objective of proposing Speak Now is to overcome the real world problem of Blind Students. They Need Writers to write their Exam Paper. Our proposed system is used to help blind students to write their paper by their own. Our System will speak out Questions and they will speak answers and answers will be stored in to the database. Then Faculty will asses students as per their performance.

PG Winner Detail

Masters of Computer Applications

Project Title: CALL HELPER

Prepared by:

Name	Enrollment no
PANKTI JOSHI	155160693012
ISHAN MAJMUDAR	155160693015

Guided by: Prof. Reshma Dayma

“Call Helper” is an Android Application for identifying the caller, setting reminders and for saving notes for that particular contact. This application is a platform basically for corporate people who have regular meetings scheduled in oral but want to have reminder for that meeting.

The user will be able to create notes and set reminders for that contact. The user will also be able to communicate through this application by giving access to the android native application called Messaging and Email.

In addition to it, user will also be able to identify the unknown caller through this application by having feature of identifying the unknown caller.

In last, the user can also assign ringtones for different contacts and also it can set the different vibrating pattern such as short, default, long and medium.

Masters in Software Engineering (ME)

Thesis Title: PROPOSAL OF AN EFFICIENT ARCHITECTURE FOR DATA PROTECTION IN CLOUD

Prepared by: Jalashree Dushyantkumar Trivedi

Guided by: Prof. Amita V. Shah

Abstract :

Cloud data storage is a service that brings several advantages for its users. However, in public cloud systems, the risks involved in the outsourcing of data storage can be a barrier to the adoption of this service by those concerned with privacy. Several cloud service providers that claim to protect user's data do not fulfil some requirements considered essential in a secure, reliable and easy to use service, raising questions about the effective security obtained. In this research we have proposed constructing a model of decentralized data storage based on client side encryption and blockchain technology with the purpose to improve the security and safety of confidential information.