

Department of Computer Sciece, Saurashtra University, Rajkot

Hackathon - 2019 (05-02-2019)

no	Name of problem	Description of problem
1	Class attendance application	When a teacher enters in the class, he/she starts application that will accept the request of the student from their mobile and takes the present. After five minutes application will automatically stops. The application will receive only those request who are in the class room.
2	Duration caluclation application	When the application starts it will recognize the face of person who is working in the shop, the application will constantly viewing the person. The duration of time for viewing is set for the application in well advanced. As the person goes out of the shop, his/her deduction time will be measured. At the end of the specified duration, the application will display the present duration of the person in shop.
3	Food order aplication	Hotel waiter takes the order from the customer in mobile and the same is supplied to the cook's computer
4	Reassessment system	After the declaration of the result, the student can do the reassessment from their mobile. Include all the rules regarding reassessment exam wise (how many papers can be opened, what is the fee, how many days to be allowed for the application). Admin and user sided both.
5	Path creater application	Start the application and start the walking from one place to the another places. Once you stop walking and would like to see the route. Application will return you the all the important location name in sequence from the beginning to the end of your walk in the form of a pdf file
6	Traffic suggestion application	While you are travelling, the application will find the different routes and suggests the route which has less traffic
7	Online fees payment application	Student can pay the fees on line. (Admin as well as client)
8	Mobile Examination application	The question is displayed on the projector screen, and student has to submit the answer through their mobile, at end aplication will give the list of the students with their true and false count
9	Gujarati character writing learner application	The application will help the child, how to write gujarati characters
10	Gujarati character pronunciation application	The application will help the child, how to spell gujarati characters
11	Gujarati/English table(Stanza) learning application	The application will help the child, the tables in gujarati / in english (1 to 40). It also spell the tables
12	In out reporting application for hostel	An application that records the in time and out time and also the duration between the in and out time for the residents in the hostel.

13	Fee memo generation application	The application will generate the student fee memo, consider many courses are running in the college, as well as some fees are collected quarterly, six monthly or yearly. Also keep the record
14	English to Gujarati dictionary	The application will give the different meaning in Gujarati for the given English word
15	Reminder application	The application will give the reminder to the person. The reminder is stored in the computer application and the message is sent to the person before 30 minutes to his/her mobile
16	On line book requisition application for library	The application will take the requisition of the student from their mobile and returns the message about the availability of the book, if it is available then requisition is registered
17	Automatic examination form fill up application	The application will take the data of the previous exam(s) of the students and send the message to the students for the next exam form (application will give the three remainders). Students are allowed to fill the form online, collect the fee and application will generate the various reports depending on the response of the students
18	Grievance management application	The application will take the grievance from the student and passes to the HOD, when the grievance is resolved the message is passed to the applicant.
19	On line admission application	The application will take the respective data of the students and allocate the colleges as per the merit and choice of the student and generates the admission report, also informs to the students through mail and message
20	Tracing Availability of Medicine in City	Assuming that association of Retail Medical Stores keeps track of stock available with them. When a customer asks about availability of medicine, the map of city will be displayed with locations where required medicine is available. Then customer may go for it at nearest location.
21	Speech based interface application	The App in students' mobile is designed to submit verbal questions in Gujarati, like, "એમ. કોમ. External નાં Form ક્યારે ભરાશે?", "Re-assessment નાં નિયમો શું છે?". The key Words from the question are identified, and based on key words, the responses (in verbal form or text file or pdf file) are generated from the server
22	Authentication of online form	Today, number of applications are providing web based input forms. The few examples are : filling up IT return form, Online reservation for GSRTC. The issue is that someone else may fill up your form without your knowledge. You have to implement "Digital Signature" or such other mechanism at server side to assure that the person who is filling the form is you and not other.