

PROPOSAL 1

ATTENDANCE With Smartphones:-

Every semester before starting of classes professors say “No one will give proxy”. So why not to come up with a solution so that this statement is never repeated by any professor from next semester onwards nor any T.A. has to spend his/her time in taking attendance.

We can build a software app which will run on each student smartphone which will do the following:-

This app will store timetable of each department and the room in which class is going to take place. Any changes in the timetable or if there is need of taking extra class professors will be given access to make changes in course timetable.

Before beginning of any course in a semester, every student has to sign up with their ID as their IIT Roll No along with that they had to register their fingerprint on that software. Its like registering for giving attendance for that particular course. Professor has to bring one device and each student have to connect with it. As and when student give attendance, this data will be sent to the device connected with the professor which will contain one field as “time of receiving attendance” when student gave his/her attendance through which professor can decide whether that student has come late or not and whether that student should be marked as present or absent.

1) **To ensure that student is not giving attendance by sitting in HOSTEL room:-**

Student present in the class need to get connected to some device which professor will bring having short range signals. So if a student is in his room, he cannot connect with that device.

2) **To ensure no other student bring the phone of his/her friend and give their attendance:-**

When student will open the app, they have to give their fingerprint for marking the attendance and they have to choose the course for which student wants to give attendance. As a particular student can't get his friend fingerprint during class hours no proxy will be given.

3) **To ensure student is present inside the class and not giving attendance from outside:-**

Professor can come prepared with few multiple choice question and give it in between class from that app. Students have to submit that and can only be submitted by a password which professor knows and will disclose it in between the class (this password can be changed by the professor as and when required). This will force students to be attentive during class hours and might help the professor in daily assessment of students. Plus we can get “time of going out” of each students which will make sure that student was present throughout the class.

PROPOSAL 2

Fest Management System

Spring Fest is one of the largest social-cultural fest. Many students from various institute participate in events and many come to enjoy the fest. Many interesting events are organized within 3 days. Everybody wants to enjoy as much event as they could. The problem is that people do not know the way to various events or places they want to explore in the campus. Many could not properly plan their schedule for enjoying the fest. Many want to attend all the events but due to the overlap of various events, they can't. The main problem comes in the hospitality and accommodation of the participants where they have to search for the fest managing members for any problem.

So we can create a software that can help students/participants to plan out their day according to the priority they wish. Can help participants as well as fest organisers to keep track of their teammates and security as well. Can show the shortest possible way to the events/place they want to go. Can show the availability of seats in various events. Participants can get their solution to any issue/emergency created at the time of fest by contacting fest organizers closer to him. Any change in venue or time of any events can be reported to each person within no time. An option for formation of own group which can be trackable by each group members would definitely help participants to be in touch all the time. Accommodation is given when participants arrive at the campus and is one of the challenging task for every crew members as well as fest organizers to manage it. This can be simplified by making this process online in well-structured format.