

SMART UNIVERSITY – HACKATHON (Software)

Revised Problem Statements

Problem Statement #1:

Students in the university come from different environments. Every student has some strengths and weaknesses. Can you help the student in his overall development? Recommend or suggest him methods/ways to improve or work on his weaknesses. The input to the system can be students personal information, background that he comes from, things in which he is good at etc.

The recommendations should be in terms of improvements required in communication skills, writing skills, technical skills, way of presentation etc. The solution should also generate a individual progress report.

Problem Statement #2:

Develop a recommendation system for the users of library. The users should get personalized recommendations based on the information of previous readings. Information like reading patterns, authors, reading style, and book read status, rating, similar interest/topics, etc. can be used as input to give recommendations.

Problem Statement #3:

Develop a solution for hostel management. The solution should provide features for allocation of room to the, Reallocation of room, no of rooms empty, no of students from a particular institute in a particular hostel building etc. The application should allow report generation (student wise, building wise, no of rooms empty /occupied etc.)

The solution should assume more than one hostel building, no of floors in each building. No of rooms on each floor. Requirements on each floor.

Problem Statement #4:

At present there is no platform to connect students & staff all over India. A platform/portal where students could put up their projects, share their problems, contribute to projects, help in academics, suggest new ideas, just come together for any possible work. This will help them for all over development, inform them about current advances in curriculum's, etc.

You know you always wanted to ask some question in the lecture but you were shy or were afraid because you thought the question might be stupid or your friends might laugh at you. Could we get rid of this problem as well?

Every new Project or just a Project Idea or just a solution to a simple math's question should get some points or some form of credits (Like upvotes in Quora). In this way we could gamify everything & make it real interesting.

Problem Statement #5:

All in one app where we can have complete smart services for university related to cleanliness, lost & found, canteen orders, event notifications, etc.

You think standing in the queue for ordering food and then waiting for the food to get ready is wasting time? Yeah me too. How if we could just order the food after (after the lectures/before reaching the canteen) itself and the food gets ready before you get there.

So, you've found an earphone and not sure where you're supposed to report it? Found dirt in your classroom and don't know the appropriate authority to report? Could we just directly report this in the app and the appropriate authority will take care of the situation.

UPDATED PROBLEM STATEMENTS**Problem Statement #6:**

Design an interactive map of the university, including indoor maps that locate classrooms, laboratories etc.

Problem Statement #7:

Develop a course tracker that tracks a lecture series for a course. The teacher puts in lecture notes and references at the end of every lecture and the system trawls the internet for resources that supplement the lecture topic such as open source projects, book references and academic and/or professional papers.