



Project Name: MeetingRoom PRO SOFTWARE PROJECT PROPOSAL

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Stream: Software Development

Course: BSc. Honours in Computing(Year 4)



Objectives

The objective of the project is to create an iOS application, capable to assist its users to find, review and book meeting rooms. The application will allow users ease of use and help quickly find info on their desired/selected meeting room like equipment available in that room etc.

1. Background

During my work placement at SAP SE, I was engaged in several meeting from my induction to my farewell meeting, there were more than 50 meetings, from team meetings to global team meetings, intern meetings and HR meetings, to employee farewell meetings which I was part of in the course of 7 months of internship.

And number one issue was finding the meeting room due to big size of the buildings, if the meeting room was close enough to my desk, it was easy enough to find the meeting room but the problem used to arise when the meeting rooms were on different floors, even different wing of the same floor and the problem was big when trying to find a meeting room on another building and some fancy names to the meeting rooms didn't make much sense at all and the icing on the top if you are short on time i.e. have consecutive meetings to attend and the only solution available was to ask your colleagues if they didn't know run towards the reception and they would show you a floor plan which sometimes didn't make sense and overall experience in finding meeting rooms was not up to the standards to which it can be achieved.

I started some research and found other employees were facing the same issues and were just limited to using meeting rooms near their offices due to the hassle of finding meeting rooms, after talking to people I found out not just the interns who felt this pain, some of the very senior employees which were there for many years were didn't know where some of the meeting rooms were and since SAP is a multinational company, there were always employees from different locations which travelled to attend the meeting rooms and had a very hard time finding the meeting room and first have to go to the facilities department and the facilities member would manually assist wherever this process can be automated i.e. a simple to use application could solve this problem.

Hence, there was the idea for the application is developed from but it is not just limited to corporate world the application can be put to use in universities and college with minor changes.

2. Technical Approach

Room Assistant app, will be developed using Apple's new programming language SWIFT and Xcode IDE and using SAP HANA Spatial database.

I have researched a lot about the project and how it can be implemented in a way its easy to use and helpful at the same time.

3. Special resources required

As, the project will proceed and if I feel I have achieved the base functionality I have planned for, I would like to implement room booking/availability feature to the app which may require some sensors to achieve that but that's only in the special case.

4. Project Plan

Gantt chart will be added soon, researching on project and trying to setup timelines and tasks.

5. Technical Details

SWIFT Programming language, SAP HANA, Core location, Apple Maps

6. Evaluation

While, I was at SAP

I learned unit testing, I will implement unit tests in this project as well, which will check the code, I will have to research more on integration tests since, in class we are busy with chess project these days its been hard to take time and work on the main project.

Navjot Singh Virk, 20th Oct 2016