



# Project Name: MeetingRoom PRO SOFTWARE PROJECT PROPOSAL

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Stream: Software Development

Course: BSc. Honours in Computing(Year 4)



## **Objective**

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 you 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 the hassle of finding meeting rooms, after talking to people the user research findings were not just the interns who felt this pain, some of the very senior employees which were there for many years didn't know where some of the meeting rooms were and since SAP is multinational company, there were always employees from different location which travelled to attend meetings and had very hard time finding the meeting room and first have to go to 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 is where 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**

The Client application, will be developed using apple's new programming language SWIFT and Xcode IDE and will run on IOS devices and a javascript based Web service will be developed which will expose the data for the use of client app.

On database side: Geo-spatial features of MySQL will be used.

### **3. Special resources required**

This project doesn't necessarily need any special resource, wherever the project can be taken to a different level by implementing beacons for indoor navigation or sensors to track presence of people in meeting rooms.

### **4. Project Plan**

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

### **5. Technical Details**

#### **Client Side:**

IOS Application – built with Swift Language

#### **Server Side:**

JavaScript based Web Service/API

Purpose: Expose data for the use of Client app.

MySQL database

Purpose: store data including geospatial data i.e coordinates for buildings and meeting rooms.

### **6. Evaluation**

During 3 years of my course ,7 months of Internship and freelancing. I am well aware of good programming practices, Integration tests, Unit tests and the significance of maintaining bug database and research in software projects.

So, to deliver high quality software the best industry practices will be followed including Unit tests, which will check the code and ensure high quality code.