

# **Find A Room**

## Sprint 1 Planning Document

### CS 307

Team 13(Snoxy)

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Members: Nathan Chang  
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Zilun Mai(Owen)  
Saranyu Phusit(Gott, Team leader)  
Yao Xiao

Instructor: Professor Buster Dunsmore

Project Coordinator: Miguel Villarreal-Vasquez

# 1 Sprint Overview

Allow user to enter the destination, give suggestions as well when inputting.

## 1.1 Scrum master

- Saranyu Phusit, who has experience in developing mobile app using tools similar to Phonegap.

## 1.2 Meeting Schedule

During the class time.

# 2 Current Sprint Detail

## 2.1 User story for this sprint

As a user...

- I would like to have a QRcode Scanner .
- I would like to use the QRcode scanner to to determine the location from the map data.
- I would like to input the destination.

## 2.2 Task details

<b>User Stories: Have a QRcode Scanner</b>		
<b>Tasks:</b>	<b>Estimate time</b>	<b>Owner</b>
Create UI for QRcode Scanner	5 hrs	Gott
Open the Camera for taking photos of QRcode	iOS: 7 hrs Android: 5 hrs	Xiaojing Nathan
Application receive the QR code photo	iOS: 8 hrs Android: 3 hrs	Xiaojing Nathan
<b>User Story: Use the QRcode scanner to to determine the location from the map data</b>		
Application resizes and adjusts the QRcode for later QR code recognition.	iOS: 7 hrs Android: 6 hrs	Xiaojing Nathan
Read QRcode and find the corresponding ID to the QR code.	iOS: 8 hrs Android: 5 hrs	Xiaojing Nathan
Use QRcode ID to find the corresponding map	6 hrs	Nathan
<b>User Story: User can input the destination</b>		
Application receives user input from input text box	9hrs	Zilun Mai
Application filters the possible destination while inputting	12hrs	Yao Xiao
Application provides buttons helping input, such as finding restrooms, or exiting the building	6hrs	Gott Phusit
Application receives the request for restrooms or exiting the building.	3hrs	Zilun Mai
Application lists all restrooms and exit nodes.	6hrs	Zilun Mai
Application receives the final input and transfers into a Node class	6hrs	Yao Xiao
The final destination will be shown on map with the right scale and position	15hrs	Zllun Mai
Have the edge and node setup for the map	12hrs	Yao Xiao
Design the navigation screen and make a mobile-like interaction	18hrs	Gott Phusit

Functional Requirements		
Theme, As a _____	I would like to	Need to add "if time follows"
User(Student and visitor)	open the application	No
User(Student and visitor)	have a solid database which stores all the map data	No
User(Student and visitor)	have a qr-code scanner	No
User(Student and visitor)	have easy-to-find qr code on the wall at every corner,crossroad and entrance	No
User(Student and visitor)	use the qr-code scanner to get information to determine the location from the map data	No
User(Student and visitor)	have a interface to input the destination	No
User(Student and visitor)	use the short distance algorithm to get to the destination	No
User(Student and visitor)	have several popular destinations for quicker access (for example, room 224 for CL50 building).	No
User(Student and visitor)	able to input the public facilities	No
User(Student)	have several popular destinations for quicker access (for example, room 224 for CL50 building).	No
Administrator (Building Owner)	have an API to add destination and new map data	Yes
User(Student and visitor)	be able to communicate with people (or friends) who are currently inside the building.	Yes