

# **Find A Room**

## Sprint 2 Planning Document CS 307

Team 13(Snoxy)

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Members:

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# 1 Sprint Overview

Allow user to enter the destination that they want to go to. The application will also give recommendations for popular locations in that building.

## 1.1 Scrum master

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

## 1.2 Meeting Schedule

During the class time and during a day every weekend.

# 2 Current Sprint Detail

## 2.1 Functional 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 determine the location from the map data.
- I would like to have an interface to input the destination.

## 2.2 Non-functional user story for this sprint

As a user...

- The app should work with any building with basic structure
- The size of the app should be small

## 2.3 Task details

<b>User Stories: As a user, I would like to have a QRcode Scanner (Focus on size, nonfunctional)</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Create UI for QRcode Scanner	3 hours	Gott
Open the Camera for taking photos of QRcode	5 hours each	Xiaojing Nathan
Application receive the QR code photo	5 hours each	Xiaojing Nathan
<b>User Story: As a user, I would like to use the QRcode scanner to to determine the location from the map data (size)</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Application resizes and adjusts the QRcode for later QR code recognition.	6 hours each	Xiaojing Nathan
Read QRcode and find the corresponding ID to the QR code.	4 hours each	Xiaojing Nathan
Use the QR code to find the corresponding map from the database.	3 hours	Yao
<b>User Story: As a user, I would like to input my current location (room) manually</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Application nicely shows the input text box for this purpose	2 hours	Gott
Application receives user input and send it to be processed	4 hours	Gott
Have a solid database for the room data	10 hours	Zilun
The database process the query and return the current location data	4 hours	Zilun
<b>User Story: As a user, I would like to have the application know which building I am currently in without inputting the building name</b>		
<b>Tasks</b>	<b>Estimate time</b>	<b>Owner</b>
Application obtains the user's geolocation	6 hours each	Xiaojing Nathan
Application uses the user's geolocation to find the corresponding building	4 hours each	Xiaojing Nathan
Application have a solid database for the geolocation data	5 hours	Zilun
The database process the query and return the current building data	3 hours	Zilun
<b>User Story: As a user, I would like to see the building map and the current location according to the map</b>		

Tasks	Estimate time	Owner
Application shows the map corresponding to user input	4 hours	Gott
Application obtains the coordinate that represents the location of the user	9 hours	Yao
Application displays the point that represents the user location on the map.	2 hours	Gott
<b>User Story: As a user, I would like to see nearby public facilities on the map right away</b>		
Tasks	Estimate time	Owner
Application has the database separated for the public facilities	11 hours	Yao
Application obtains the list of close public facilities from the database	5 hours	Zilun
Application shows the corresponding public facilities on the map	4 hours	Gott
<b>User Story: As a user, I would like to have an interface to input the destination(Focus on size, nonfunctional)</b>		
Tasks	Estimate time	Owner
Application elegantly shows the input box on the map screen for ease of input	4 hours	Gott
Application receives user input and send it to be processed	1 hours	Gott
The database processes the input and return the destination	7 hours	Yao
The final destination will be shown on map with the right scale and position	3 hours	Gott
<b>User Story: As a user, I would like to see the suggestions while inputting the destination</b>		
Tasks	Estimate time	Owner
Application has the method for querying the list of possible destinations from the database	3 hours	Zilun
Application shows the possible destination as an autocomplete list for the textbox	2 hours	Gott
Application updates the list while user types	1 hours	Gott