Find A Room

Sprint 1 Planning Document

CS 307

Team 13(Snoxy)

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1 Sprint Overview

Start the framework of the app, implement map class and qrcode class so that user can located themselves.

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.

1.3 Challenge

- Three of our team members have one of the hardest project at Purdue(shell) for the first two weeks.
- It's the first time for most of us to develop a mobile application.

2 Current Sprint Detail

2.1 User story for this sprint

- I would like to get my current location in the building
  - Task: Create map class and QR code class
- I would like to navigation to the next QRcode
  - Task: Create an edge and node type inside the map class

2.2 Task details

Nathan Chang

- Be familiar with phoneGap operation (6hrs)
- Be familiar with GitHUB (2hrs)
- Be familiar with Mobile Application creation. (4hrs)
- Understand how to use a camera on a phone and other details. (7hrs)
- Have a working QR code class (8hrs)
- Have a QRcode scanner working (3hrs)

Xiaojing Ji

- More details for completing User Story: getting my current location(QR code part)
  - 1. Open the Camera to photo QR code and let app recognize QR code
    - Task 1 description: Be familiar with phoneGap operation (Estimate time: 6 hrs)
    - Task 2 description: (HTML) Apply platform BarcodeScanner for phoneGap, implement that part to allow QR code scan (Estimate time: 6 hrs)
    - Task 3 description: (HTML) Open cellphone camera to enable taking photos by using methods in Camera package (Estimate time: 5 hrs)
  - 2. Have a QRcode application enable for recognition
    - Task 1 description: (JavaScript) Resize input QR code image to allow QR code recognition(Estimate time: 6 hrs)
    - Task 2 description: (JavaScript + Java) Finish QR code class, let each QR code have a unique string, so we can use string to distinguish them(Estimate time: 4 hrs)
    - Task 3 description: make sure each QR code has a corresponding unique location on the map(Estimate time: 3 hrs)

Owen Mak

- Be familiar with phoneGap operation (6hrs)
  - How this works
  - How to implement our app
- Grabbing the map image (3hrs)
  - Selecting building
  - Getting the building floor plan maps
- Implementing the map class (11 hrs)
  - Focusing on MapID and building
- Testing map class(10 hrs)

Gott Phusit(Scrum Master)

- Learn HTML design for phonegap mobile app development (6hrs)
- Designing and Developing the UI for the QR code reader screen (9hrs)
- Designing and Developing the UI for the Main Application screen. (15hrs)

Yao Xiao

- Be familiar with phoneGap operation (6hrs)
- Creating the map class
  - Creating an easy approach to connect map img to the map class (5 hrs)
  - Creating edges and nodes (8 hrs)
  - Getting to the next QRCode (11 hrs)

3 Backlog

- User can locate themselves
- User can select the precise destination(e.g. Room name)
- User can select facilities, the app can decide the closest one(e.g. restrooms)
- User have a visual guide with photos for navigating to destination.