

CSCI 3308 – Project Requirements - Part 2

Due 02/12/15

Title: ICUEM

Vision: An application for people to actually be able to navigate the Engineering Center without too much hassle/confusion.

Who: Steven Tang, Edward Zhu, Andrew Arnopoulos, Brian Gaydon

List of Requirements:

| Business Requirements | | |
|------------------------------|---|---------------|
| ID | Description | Sizing |
| B01 | As a Business, we want to be able to import Google Ads if we decide to do so so that we can have a small revenue for the process. | 5 pts |

| User Requirements | | |
|--------------------------|--|---------------|
| ID | Description | Sizing |
| U01 | As a user, I want to be able to create an account so that I can save settings and locations. | 3 pts |
| U02 | As a user, I want to be able to drop a pin so I can save a location for later reference. | 3 pts |
| U03 | As a user, I want to be able to see my current location within the Engineering Center so that I can see my position relative to my surroundings. | 8 pts |
| U04 | As a user, I want to be able to see my destination within the Engineering Center so I can see its location relative to its surroundings. | 5 pts |
| U05 | As a user, I want to see the best path between my current location and my destination clearly displayed, so I can easily find my way to where I'm going. | 8 pts |

| Functional Requirements | | |
|--------------------------------|--|---------------|
| ID | Description | Sizing |
| F01 | As a developer, I want to test the precision of GPS tracking within the Engineering Center so that we can make decisions on positional tracking techniques. | 8 pts |
| F02 | As a developer, I want to implement a greeting page that allows users to select between guest mode and registering/logging in, so that anyone can try out our app and create an account if they want to continue using it. | 2 pts |
| F03 | As a developer, I want to implement a coordinate system on a plane so we can have a method of setting and referencing locations. | 5 pts |

| Non-Functional Requirements | | |
|------------------------------------|--|---------------|
| ID | Description | Sizing |
| N01 | As the dev team, we want to obtain the blueprints for the engineering center in either physical or digital format, so we can implement floor plans. | 5 pts |
| N02 | As the dev team, we want to initialize a database so we can keep track of users. | 8 pts |
| N03 | As the dev team, we want to ensure that our team members have a shared code base to maintain consistency. | 2 pts |
| N04 | As the dev team, we want to ensure that our team members have the appropriate development tools installed so that everyone can begin contributing immediately. | 2 pts |

Methodology: Agile

Project Tracking software: Trello

Link to project tracking software: <https://trello.com/b/juWhoGwl/icuem>

Project plan:

Boards **ICUEM** ☆ ⊕ Public

Week 1

- W01a: Contact CU Engineering and propose our project to receive basic blueprint of the floor plans in Engineering Center. - 2 pts
- W01b: Figure out best processes to use in cross compiling for iOS and Android. - 3 pts
- W01c: Find best tool to convert a map/blue print to code and visuals. - 2 pts
- W01d: Before we can get the blueprints of the EC, create a small blueprint manually of the CSEL and Labs around it. - 5 pts
- Add a card...

Week 2

- W02a: Set up database (MySQL) and create a landing page for the app that will handle the login information. - 3 pts
- W02b: Test GPS location precision through app and different phones. - 2 pts
- W02c: Implement a basic coordinate system to lay over the blueprints. - 3 pts
- Add a card...

Week 3

- W03a: Start mapping blueprints into app and making them visually appealing. Map first floor of EC. - 5 pts
- W03b: Implement a pinning option, whether to do GPS or manual pinning. - 2 pts
- Add a card...

Menu

Members

EZ A BG

Add Members...

Activity

- EZ **Edward Zhu** added W03c: Implement a basic coordinate system to lay over the blueprints. - 3 pts to Week 2. 18 minutes ago
- EZ **Edward Zhu** added Implement a pinning option, whether to do GPS or manual pinning. to Week 3. 37 minutes ago
- EZ **Edward Zhu** added Test GPS location precision to Week 2. 20 minutes ago