Project Proposal: CSULB Friend Finder

Friends of the team members have expressed interest in an **iPhone app to track the locations of friends on the CSULB campus**. Commercial apps already exist for tracking friends on the city level; notably, the "Find My Friends!" Android app. **Our goal is to adapt the concept to the CSULB campus**, with customizations like: class schedule uploading ("e.g., In CECS 100 from 9:30 AM — 10:45 PM"), automatic building identification ("e.g., at Hall of Science"), and a built-in compass for navigation to a CSULB location. Facebook integration is included to lessen the burden of subscribing to an entirely new social network. Ultimately, this app has the goal of making it as convenient as possible to meet up with real life friends on the CSULB campus, by reducing communication problems along the lines of "'Hey, I'm at the HSCI building!' - 'Where's that?'"

The user has two ways to connect with friends. First, he/she can enter their usernames on the Friend Finder system. Second, he/she can choose to log in through Facebook, or connect with Facebook after having already registered. If this feature is chosen, the Friend Finder will search his/her Facebook friends for their Friend Finder accounts, and recommend that they be added.

To locate a friend, the user can access an entire map of CSULB. In this map, he/she can view friends as pins on their exact location. This map can be refreshed automatically, while the phone is in standby, or manually if the user wishes to save battery life. Upon clicking a friend's pin, the app brings up the friend's status, if the friend had manually given one; e.g., "I'm in ECS, but I'm getting out early at 4:45!". Otherwise, the app displays the friend's auto-location. If the friend had previously uploaded his/her class schedule, and his/her location is reasonably in the vicinity of the class he/she should be in, then the status will identify the friend's location by the class's scheduled building.

The user can choose to navigate to that friend, upon which the app will estimate the time to walk and, if desired, display a compass pointing in the direction of the friend. This feature will be especially useful for new students to the campus.

(Alternatively, the user can search for friends by name or username, as opposed to visually searching for a pin. If the searched-for friend is on the map, then the map will pan to his/her location. If not, the friend's profile is loaded in order to display their last known location.)

The user can update his/her own status automatically or manually. In manual mode, he/she can add a one-line status, and also choose to send notifications ("pokes") to selected friends via a checklist. A "privacy mode" is available at all times via a convenient slider.

In the process of **delivering a Friend Finder app reliable enough for CSULB students** to use, the team members have the objective of learning about the **software development process**, about **iOS development**, and the **MVC model** that the app will be based on.

Timeline

Development is divided between a front-end (iPhone) team and a back-end (Amazon Web Services) team. Kane leads the **front-end development team** consisting of **Kane**, **David**, and **Nick**. Tan leads the **back-end team** consisting of **Tan**, **Armando**, and **Miguel**. **Gustavo**, as **Project Owner**, works with both teams and approves cross-team decisions.

In the following timeline, sprints are scheduled to complete on the Tuesdays before any release date, as this is the team's set meeting time.

Spr. #	Complete by:	Release on:	User stories to complete
2	Tue. 9/23	Thu. 9/25	**Getting Started:** • As a new user, I want to register/log in with my email address, username, and password. • As a new user, I want to register with my Facebook account. • As a new user, when registering with Facebook, I want to see a list of recommended friends from FB. • As a new user, I want to choose the information I want to retrieve from my Facebook account, such as my phone number. • As a new user, I want to add my friends onto my friends list. • As a new user, I want to upload my schedule.
4	Tue. 10/7		**Daily use: Searching by Friends List** • As a user, I want to view my friends list. • As a user, I want to click on a friend and view his/her profile. This profile will contain his one-line status, location, and contact information.
6	Tues. 10/21	Thu. 11/23.	**Daily usage: Searching by Map** • As a user, I want to navigate to the CSULB map panel and view pins of my friends. • As a user, I want to click on a friend's pin and view his/her profile. • As a user, I want to choose to navigate (calculate ETA and display compass) to that friend.
8	Tue. 11/4		**Daily use: Updating status/location** • As a user, I want to update my location, with an optional one-line status. • As a user, I want to choose the friends to "poke". • As a poked user, I want to receive a push notification to call back if the poker has his/her number on his profile.
10	Tue. 11/18	Thu. 11/20	**Change settings** • As a user, I want to toggle privacy mode. • As a user, I want to navigate to the settings menu, and be able to change: manual/auto, update freq, change my password/ profile/schedules.
12		Thu. 12/11	**Test, document, prepare presentation**

— Team #2:

Nicholas Colburn   David Garcia   Kane Keller   Miguel Navarro
             Tan Tran   Gustavo Yepes   Armando Zavala