Sprint 2 Plan

Lost & Found
Team Rocket
Sprint Completion Date: 07/16/2018
Last Modified: 7/25/2018
Revision Number: 1.0

Goals
Short, 1-2 sentence description of the high-level goal(s) for the sprint.

The goal of this sprint is to implement functions to create a pin on the map, connect the associated action to a pop-up submission form, and gather the pins to create a marker cluster using Google maps API. User account functions, display options, and ability to view submissions history are also implemented to the sidebar navigation during this sprint.

Task Listing
This section lists the user stories, in priority order from most important (top) to least important (bottom). Within each user story, there needs to be a list of tasks required to implement the user story, along with the time estimate for each tasks (preferably less than or equal to 6 ideal hours).

- ❖ **User Story 1:** As a person who has found an item, I want to create a pin on the campus map that represents the location of where I found the item so that other users can tell whether or not the lost item is theirs. [7 hours]
    - ➢ **Task 1**: Learn how to use the marker object in Google Maps API [1 hour]
    - ➢ **Task 2:** Implement functionality to place marker on click [2 hours]
    - ➢ **Task 3:** Implement functionality to obtain location information based on where the user clicks, and store that information into the database along with the user's submission [3 hours]
    - ➢ **Task 4:** Merge the lost/found submission form into one form with tabs so that clicking the map brings up one form instead of another option to select which type of item the user wants to submit [1 hour]

- ❖ **User Story 2:** As a person who has lost an item, I want to create a pin on the campus map that represents the location of where I lost the item so that users who find my item can tell that it is my item. *(Note: the tasks done in User Story 1 can be applied here with minimal changes.)* [1 hour]
    - ➢ **Task 1**: Learn how to use the marker object in Google Maps API [0 hours]
    - ➢ **Task 2:** Implement functionality to place marker on click [0 hours]
    - ➢ **Task 3:** Implement functionality to obtain location information based on where the user clicks, and store that information into the database along with the user's submission [0 hours]
    - ➢ **Task 4:** Merge the lost/found submission form into one form with tabs so that clicking the map brings up one form instead of another option to select which type of item the user wants to submit [1 hour]

- ❖ **User Story 3:** As a user, I want the initial map to only show grouped pins representing various areas (that can be expanded to show all of the individual pins limited to that area) so that the view of the map at any time is less cluttered. [6 hours]
  - ➤ **Task 1:** Learn marker clustering in the Google Maps API [1 hour]
  - ➤ **Task 2**: Learn how to convert a cluster into individual markers [1 hour]
  - ➤ **Task 3:** Implement marker clustering [2 hours]
  - ➤ **Task 4:** Implement function to convert from cluster to individual markers [2 hours]

- ❖ **User Story 4:** As a user who has lost an item, I want to be able to zoom in on a cluster of pins and see the individual pins so that I can better visualize whether or not any of the nearby "Found" pins pertain to my lost item. [1 hours]
  - ➤ **Task 1:** Learn how to automate zoom in the Google Maps API [0.5 hours]
  - ➤ **Task 2:** Create a function that automates zoom in the Google Maps API [0.25 hours]
  - ➤ **Task 3:** Merge the function from User Story 3 to run as this function runs [0.25 hours]

- ❖ **User Story 5:** As a user who zoomed in to view more specific pins, I want to be able to go back to the broader, default view [0.5 hours]
  - ➤ **Task 1:** Create a function that automates zoom out in the Google Maps API [0.25 hours]
  - ➤ **Task 2:** Merge the function from User Story 3 to run as this function runs [0.25 hours]

- ❖ **User Story 6:** As a user who logged in, I want to view my profile page, so that I can see meta information regarding my account. [2 hours]
  - ➤ **Task 1:** Create a Profile component [1 hour]
  - ➤ **Task 2:** Add route to Profile component [1 hour]

- ❖ **User Story 7:** As a user who logged in, I want to view my submission history in my profile page so that I can easily find all of the reports I've created. [3 hours]
  - ➤ **Task 1:** Find out how to Read all documents that relate to the user (relate as in whether user found the item or user lost the item) [1 hour]
  - ➤ **Task 2:** Create a function that Reads all documents that relate to user [1 hour]
  - ➤ **Task 3:** Display the received documents in the history page [1 hour]

- ❖ **User Story 8:** As a user who logged in, I want to have my account functions listed in a side drawer so it is easy to access and doesn't take up useful screen space. [3 hours]
  - ➤ **Task 1:** Set up required account functions (profile page, settings) [1 hour]
  - ➤ **Task 2:** Set up the navigation drawer [1 hour]
  - ➤ **Task 3:** Implement account functions into the nav drawer [1 hour]

- ❖ **User Story 9:** As a person who has found a lost-and-found location, I want to create a pin on the campus map that represents the location of where I found a "Lost and Found" center so that other users can tell where the new lost-and-found is. *(Note: the tasks done in User Story 2 can be applied here with minimal changes.)* [0 hours]

(Note: this user story was put into the backlog because the team and PO decided it was unnecessary for this release.)
- ➢ **Task 1**: Learn how to use the marker object in Google Maps API [0 hours]
- ➢ **Task 2:** Implement functionality to place marker on click [0 hours]
- ➢ **Task 3:** Implement functionality to obtain location information based on where the user clicks, and store that information into the database along with the user's submission [0 hours]

❖ **User Story 10:** As a user, I don't want to be able to scroll or zoom out of bounds, because I want the map to only display valid locations for submissions. [2 hours]
- ➢ **Task 1**: Read Google Maps API documentation to learn how to implement setting strict bounds on the map. [1 hour]
- ➢ **Task 2**: Implement strict bounds on the map. [1 hour]

❖ **User Story 11:** As a user, I want only signed in users to be able to submit so that I don't have to deal with submissions from anonymous people abusing the submission system. [4 hours]
- ➢ **Task 1**: Implement functionality to allow the user to sign in via their Google account [2 hours]
- ➢ **Task 2**: Change the logic of the submission form to only come up if the user is signed in. [1 hour]
- ➢ **Task 3:** Add an alert to notify non signed in users that they need to sign in to submit. [1 hour]

❖ **User Story 12:** As a user, I want to disable scrolling with only the scroll wheel so that I don't zoom in or out accidentally. [2 hours]
- ➢ **Task 1**: Change zooming of the map to require ctrl+scroll wheel instead of just scroll wheel. [1 hour]
- ➢ **Task 2:** Add a message letting the user know how to scroll if they attempt to just use the scroll wheel on the map. [1 hour]

❖ **User Story 13:** As a user, I want to be able to click on markers and bring up information about that submission so that I don't have to go to the "List View" page. [4 hours]
- ➢ **Task 1**: Design an info window that displays a marker's information [2 hours]
- ➢ **Task 2:** Bind the opening of the info window to the click event associated with the marker. [2 hours]

Team Roles
Give a listing of all team members. Next to the team member, list their role(s) for this sprint. Assign each person to at least one role (for example, this role might be "Developer").

- ❖ **Wan Fong**: Product Owner, Developer, Scrum Master
- ❖ **Lily Nguyen**: Developer
- ❖ **Chengyu Jiang**: Developer
- ❖ **Egan Bisma**: Developer
- ❖ **Geoff Huang**: Developer, Scrum Master

❖ **Peter Eskraus**: Developer

Initial Task Assignment
A listing of each team member, with their first user story and task assignment.

❖ **Wan Fong**: [User Story 3: Task 1, 2, 3, 4], [User Story 4: Task 1, 2, 3], [User 5: Task 1, 2]
❖ **Lily Nguyen**: [User Story 6: Task 1, 2], [User Story 7: Task 1, 2, 3], [User Story 8: Task 1, 2, 3], [User Story 13: Task 1,2]
❖ **Chengyu Jiang**: [User Story 8: Task 1, 2, 3]
❖ **Egan Bisma**: [User Story 6: Task 1, 2], [User Story 7: Task 1, 2, 3], [User Story 10; Task 1,2], [User Story 11; Task 1,2,3,4], [User Story 12; Task 1,2], [User Story 13: Task 1,2]
❖ **Geoff Huang**: [User Story 1: Task 1, 2, 3, 4], [User Story 2: Task 1], [User Story 9: Task 1]
❖ **Peter Eskraus**: [User Story 4: Task 1,2,3,4]

Initial Burnup Chart
A graph giving the initial burnup chart for this sprint and is labeled as such with sprint number and project name and is located in the lab.

Sprint 2: Burn Up Chart (Hours per Day)
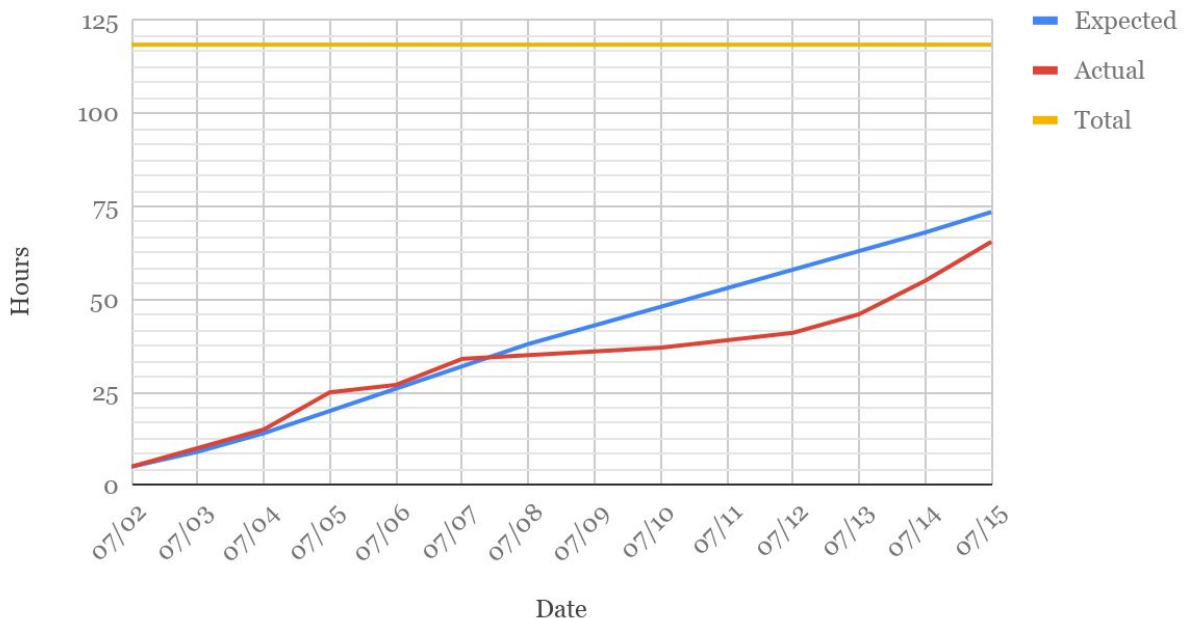
Initial Scrum Board
Also known as a task board, the scrum board is a physical board and labeled as such with sprint number and project name and located in the lab. This board has four columns, titled user stories, tasks not started, tasks in progress, and tasks completed. Index cards or post-it notes representing the user stories and the tasks for this sprint should be placed in the user stories, tasks not started,

and tasks in progress columns. Tasks associated with a user story should be placed in the same row as the user story.

Our scrum board is done virtually, on Trello: https://trello.com/b/5UmXE45n/sprint-2

Scrum Times
List at least the three days and times during the week when your team will meet and conduct Scrum meetings. Also, indicate which of these meetings will have the TA/tutor visit as arranged with the TA/tutor. It is expected the TA/tutor will visit during the Scrum meeting during your lab time.

Monday: 1:30 - 2:00 pm [TA present]
Wednesday: 1:30 - 2:00 pm [TA present]
Saturday: 5:00 - 6:30 pm