All Meeting Notes

1/16/20 (lab01)

- **All Present**
- Scrum Meeting: (What I did // What I will do // Roadblocks)
  - Cameron: watched video about React Native + Google Maps//Learn Javascript
    Lucas: Hello World App//Get a map in there
    Jack: Read React Native docs//Learn how to use Firebase in React Native
    Derek: // learn about react native components //no known javascript
    Kimi: Wrote Hello World App//Learn more about javascript/react native
    Nick: Hello World App//Download emulator//no working dev environment
- Coined name for project: UCSB
- Began creating User Journey and Problem Scenario
- Sprint-Planning 1
  - Exchange contact information
  - Get a Hello World equivalent running on mobile simulator
  - Use React Native
  - Set up Kanban board on github projects for workflow management
  - Make issues for features and additions to the app
  - Use labels for organization.
- Discussed MVP
  - should center on the user's location and indicate their location with a dot
  - doesn't have to be drag-able
  - doesn't have to be moveable
  - should have some way of displaying surrounding locations (buildings, landmarks, etc.)
- Discussed List of bathrooms:
  - just a simple list (separate from the map, available from a toolbar or pulldown menu or something)
  - has room number of bathroom (e.g. South Hall 1636)

1/21/20 (out-of-class)

- **All Present**
- User Journey and User Stories Created
- Added to-do tasks into to-do list
- Hello World about to be pushed
- Discussed the creation of a logo for the app

1/22/20 (Lecture 5)

- **All Present**
- Scrum meeting:
    - Cameron: watched video on js arrow functions; read up on markup language;
    - Kimi: completed pull request issues; push Hello World app
    - Lucas: pull request for Expo Hello World, Splash art for logo
    - Derek: learning React Native; put a map or list in the app ; can't launch Expo Project
    - Jack: read blogs about firebase; start app on android, sync data between server and Android
    - Nick: ; push Hello World App, get it running on Android emulator; can;t set development environment

1/23/20 (Lab 2)
- All but Kimi here (Kimi facetimed)
- Scrum Meeting
    - Jack: Pass
    - Nick: Pass
    - Derek: Pass
    - Cameron: Pass
    - Lucas: Automation on Kanban board works / Continue to work on new stuff / none
    - Kimi: Successfully pushed Hello World / Needs to be assigned to new issues / none
- Reorganized Kanban Board and added issues
- Determined programming teams and assigned them to issues (**Spring Planning 2**)
    - Continue to set up Kanban Board (Lucas)
    - Make issues very granular (all)
    - Set up project board automation (Lucas)
    - Start to add a hardcoded list of bathrooms in the app (Derek and Nick)
        - If time allows, add some other basic features
    - Start by hardcoing and getting things to work, then move towards more scalable implementations (all)

1/27/20 (Lecture 6)
- All Present
- Scrum Meeting
    - Lucas and Kimi: Worked on navigation tabs on bottom and getting list of bathrooms. Got placeholder list on app already / Learning how react native works/ Getting real bathroom numbers and improving user experience

- ○ Cameron and Jack: Researched the tool needed to import json and data from Google sheets / No Roadblocks / Work on the imports by Thursday
- ○ Nick and Derek: Got expo working and are researching the map API / laziness / Continue developing map

1/29/20 (Lecture 7)

- ● All Present except Kimi
- ● Scrum Meeting
  - ○ Jack: Started setting up firebase // get data from firebase into app // NA
  - ○ Lucas: Added github protections // Add more bathrooms to hardcoded list // NA
  - ○ Cameron: Researched spreadsheet, *non-viable // get data from firebase // NA
  - ○ Derek: Put a map in the main tab centered on campus, shows user location // make better/prettier // NA
  - ○ Nick: Put a map in // NA // NA Kimi: NA // Demo the app to Terrell // NA

1/30/20 (Lab 3)

- ● Conducted first retrospective
  - ○ Retro Leader: Nick
  - ○ Notes: Cameron
  - ○ Attendance: Derek, Lucas, Nick, Cameron, Kimi, Jack
  - ○ What we will do differently:
    1. Code reviews (if you're going to push an issue, send a message to master to have somebody else review it, ping lucas to merge to master)
    2. more collaboration between weekly sub-team members on slack (before coding anything, message your pair partner to get their thoughts)
    3. feature branches (name of the feature in camel case, this makes branches a lot cleaner than personal branches)
  - ○ What we hope the result of this experiment will be:
    1. make sure that merged code does not mess up master branch
    2. allows for better communication and therefore more efficient work every week within each sub-team
    3. much cleaner workflow compared to personal branches, when sub-teams contain multiple people working on the same issue, it's better to have 1 single branch for this
  - ○ How will we measure the effectiveness of this:
    1. more messages in the slack channel: pings, or general messages for team members to check code
    2. this could cause weekly issues to be complete more quickly on the kanban board, with more efficient communication within sub-teams

3. feature branches should be created every week for each issue, and deleted once it's merged to master

1/31/20 (Out-Of-Class)

- All Present except Jack (conflicting schedule)
- **Spring Planning 3**
  - Create issues for next sprint
    - Create specific issues for next sprint (add UI elements, fix current bugs, move towards map functionality)
    - Focused on making issues for MVP
    - More difficult issues should be done by pairs
  - Merged all of the branches into master
  - Assigned one issue to each member of the team

2/3/20 (Lecture 8)

- All Present
- Scrum Meeting: done // obstacle // will do
  - Derek: pass // make sure to install React-Native collapsible list to make sure it runs // assigned issues
  - Lucas: added icons for accessibility and for genders, refactored code to work with database in future // none // continue updating visuals and work on a gender neutral icon
  - Kimi: Color coded bathrooms for male female, gender neutral // none // assign self to more issues
  - Jack: set up firebase to pull data from firecloud and push data into the database // Figure out a way to structure the data since we have many layers // add another navigation bar so can enter data and see effect
  - Cameron: pass
  - Nick: made custom mapview component for abstraction purposes and added a marker to Phelps hall // confusing syntax //add markers to more buildings

2/5/20 (Lecture 9)

- All Present except Jack
- Scrum Meeting (done // will do // obstacle)
  - Derek: Added button to show user location, made PR for feature // Work on restriction boundaries (prevent user from) // difficulties on making improvements to UI features
  - Nick: N/A // get assigned a new issue // N/A
  - Lucas: small UI improvements to bathroom description icons and list // get assigned a new issue, add more issues to the list // N/A

- ○ Kimi: Pass
- ○ Cameron: Adding markers to the bathrooms map for each building // get assigned a new issue // N/A

2/6/20 (Lab 4)
- ● All Present
- ● Scrum Meeting (what we did)
  - ○ Lucas: Pass
  - ○ Derek: Made a PR for show user location and integrated with map markers
  - ○ Nick: Made a PR to restrict zooming (so that the user doesn't zoom out past the necessary scope
  - ○ Jack: Pass
  - ○ Kimi: Pass
  - ○ Cameron: Pass
- ● Worked on MVP issues
- ● Designated roles for MVP demonstration
  - ○ Derek and Lucas: Presenter and Recorder
  - ○ Nick and Cameron: Reviewer and Recorder

2/10/20 (Lecture 10)
- ● All Present
- ● Scrum Meeting (did, will do, obstacle)
  - ○ Derek: Pass
  - ○ Jack: User authentication using Firebase // Enable queries//Merge conflicts
  - ○ Kimi: N/A // Scaling issue
  - ○ Lucas: Merged PRs, added GitHub Actions // Finish labeler w/ wider variety of labels // NA
  - ○ Cameron: Changed Readme // NA // NA
  - ○ Nick: Fixed merge conflict // Finish draggability issue // NA
- ● Issued things to do before MVP review

2/12/20 (Lecture 11)
- ● All Present
- ● Scrum Meeting (did // do // Roadblock)
  - ○ Nick: Updated dragging PR // Prep for review // None
  - ○ Cameron: Added bathrooms for Phelps, pushed to master // prepare condensed lab instructions // None

- ○ Lucas: Trying to set up testing with Jest and managed to test most basic features // Continue working on that // Couldn't get snapshots to work or the more complex features of Jest
- ○ Kimi: Working on getting splash screen to fit screen, covers screen but text a bit low so center // Editting a new image with centered text so she can make it look better // Text was getting cut off
- ○ Derek: Walked around inputted a lot of restroom data into map (did pull request) // Prepare for review and do other issue // None
- ○ Jack: Managed to import data from Firebase // Trying to generate template for list so it's easier to extract data from database // None

2/13/20 (Lab 5)

- ● All Present
- ● MVP Presentation
    - ○ Reviwee Notes
        - ■ Attendance:
            - ● Our team: Derek, Lucas, Kimi, Jack
            - ● Rideshare team: Junyi Du and Emmy Zhang
        - ■ Reviewer comments and our responses:
            - ● Mobile app shows nearby restroom location
                - ○ We managaed to communicate our idea through our app
            - ● React, iOS, and Android
                - ○ No comment
            - ● Scan code to log in
                - ○ This probably means how to run the simulator on expo. We probably should have a standalone app that does not require a simulator
            - ● UCSB maps (only at UCSB)
                - ○ Yes, we want to make our scope small so we can make our app as good as possible for our intended audience: people at UCSB
            - ● On click location (building and room number) works (positive and fine with it)
                - ○ Might change this to clickable buildings as we believe there might be too many markers on the map
            - ● Hardcoded enter location
                - ○ We want to utilize Firebase so we can simply pull our data from a database without hard coding everything
            - ● 3 Sections/Tabs

- - - ○ We intentionally set it up to 3 tabs so we can divide up the functionality of the app to avoid overwhelming the uesr.
    - Takes a long time to load (everything from computer)
      - ○ After deploying the app, the load time will be much faster.
    - Scale
      - ○ The app was developed to scale with any mobile devices.
  - ■ Suggestions:
    - Bigger buttons and better design for bathroom list section to make a more user friendly environment
      - ○ Yes, we intend to redesign our bathroom list UI to make it more user friendly and UI friendly
    - Add a switch button so users can shoose only female or male bathroom in the settings page
      - ○ We intend to implement gender filters in the options tab
    - Use different color pointer to highlight different gender restrooms
      - ○ We will proabably color code the markers. But it's not necessary at this moment
- ○ Reviewer Notes
  - ■ Reviewer: Junyi Du
  - ■ Note Taker: Emmy Zhang
  - ■ Comments:
    - mobile app shows nearby restroom location
    - react, IOS & Android
    - Scan code to log in
    - UCSB maps (only at UCSB)
    - on click location (building and room number) works
    - 3 tabs (maps bathroom and settings) works
    - It takes a long time to load (everything from laptop), after deployed will be faster.
    - Installation meets error, need to use "sudo expo start" to run
  - ■ Suggestion:
    - Bigger buttons and better design for bathroom tab to make a more user friendly environment
    - Add a switch button so users can choose to see only the selected genders' restrooms on the map
    - Use different color or different sign on the map to highlight different gender restrooms

2/18/20 (Out-of-class)

- All Present
- **Retrospective 2**
  - Retro Leader: Lucas
  - Notes: Cameron
  - Attendance: Derek, Lucas, Nick, Cameron, Kimi, Jack
  - https://docs.google.com/drawings/d/1_KiahjfmYkv7qcf1rt3TA8t1JeF9TvNbTXSSmhPsM98/edit?usp=sharing
  - Reflection on Retro01 Experiment:
    - While it took some time getting used to, our experiment from retro01 was very successful. We had absolutely zero issues with the master branch since we set up the testing branch to ensure proper integration of code parts, and the use of feature branches kept the code more organized and easier to bring together. However, we didn't really increase our communication within subteams that much (at least, not over slack) which would have helped finish some of the larger features sooner. We will continue to strive to do this in future sprints.
  - Experiment
    - What we will do differently:
      - team members will let Cameron know when their part of the weekly labs is complete so that a checklist may be maintained properly
      - a broader variety of team members do code reviews
      - more testing before pull requests
      - document the working process
    - What we hope the result of this experiment will be:
      - everybody will know what still needs to be done in terms of weekly lab work
      - more frequent and efficient merging of pull requests
      - more stable merges to master
      - we will be able to present our working process for the class final
    - How will we measure the effectiveness of this
      - the lab check lists on the slack will have green check mark emojis on all tasks
      - the amount of time the pull request sits in review
      - less bugs present as issues in the kanban board
      - new content in the team folder with screenshots of the product's older versions

- **Sprint Planning 4**

- ○ Notes:
  - ■ assign at least 2 people to each major issue so that there is an extra set of eyes to check, test code, revise, etc.
  - ■ continue to use feature branches and make PRs, then have someone review them before they can be merged to testing
  - ■ make sure code is bug-free before making PR
  - ■ all minor issues have been completed or closed
- ○ Decided on things to work on
  - ■ Firebase Integration (Lucas and Jack)
  - ■ Building Clickable Interface (Derek and Kimi)
  - ■ Bathroom List UI (Kimi and Nick)
  - ■ Testing (Lucas and Nick)
  - ■ Settings Tab (Cameron and Derek)

2/19/20 (Lecture 12)

- ● All Present
- ● Scrum Meeting (did // do // Roadblock)
  - ○ Derek: pass
  - ○ Cameron: pass
  - ○ Jack: pass
  - ○ Lucas: started working on testing: enzyme for mocking, using jest. was able to test basic features like icons // continue working // includes some more complicated tests not sure what to look for
  - ○ Nick: pass
  - ○ Kimi: pass

2/20/20 (Lab 6)

- ● Assigned roles to everyone

2/24/20 (Lecture 13)

- ● All Present
- ● Scrum Meeting (did // roadblocks // will do)
  - ○ Derek: markers have been color coded, created a prototype for clickable buildings
  - ○ Lucas: worked on automated testing, testing works on its own from the command line // github doesn't run the tests properly: it doesn't end // adding more testing and make the github tests end
  - ○ Cameron: finished the settings tab, added 100 bathrooms // settings tab code is a frankenstein of stack overflow code, it works but the gender variable is in terms of a color instead of a gender // will continue bathrooms search on tuesday

- ○ Kimi: researched improved UI for collapsible list // how to get the icons and color coding to list with these other collapsible lists // Continue to work on it
  - ○ Nick: fixed the draggability issue again, and added some bathrooms
  - ○ planning to help work on the testing and the bathrooms list tab UI // NA // NA
  - ○ Jack: nothing since thursday
- next steps: enter all the bathrooms into firebase, add acceptance testing

2/26/20 (Lecture 14)
- All Present except Jack
- Scrum Meeting
  - ○ Derek: worked on displaying bathrooms from firebase on the maps tab as markers for now, roadblocks: jack's firebase integration code is minimally commented
  - ○ Cameron: +60 bathrooms since monday
  - ○ Kimi: put all the bathrooms on the google spreadsheet into firebase, next week: improve collapseable list
  - ○ Lucas: pushed CI testing branch to master, every time a pull request is made, it will run the CI tests; also fixed the bugs with the gender neutral bathrooms in the bathrooms tab, roadblocks: the tests finish but somehow the process never ends, so implmented a forced end at 1 minute
  - ○ Nick: wrote a bunch of test cases, to do: write more test cases

2/27/20 (Lab 7)
- Open lab
- All Present
- Scrum Meeting
  - ○ Cameron: pass
  - ○ Kimi: looking at new collapsable list UI, roadblocks: not sure how to interpret the firebase pulling code in the list tab
  - ○ Lucas: adding more tests, fixed the github actions automated testing to end, todo: write the rest of the tests with nick
  - ○ Nick: generated coverage report todo: see above
  - ○ Derek: firebase data translates to markers on the map, todo: filtered color coded markers
  - ○ Jack: pass

3/2/20 (Lecture 15)
- All Present
- Scrum Meeting
  - ○ Kimi: finished changing UI of collapsible list so buttons expand from the top, todo: work on a new issues

- ○ Nick: squashed a few bugs like not zooming in far enough, todo: start zoomed in issue
- ○ Cameron: created the first time pop up feature, todo: final checks for that issue and submit a PR
- ○ Lucas: worked on getting all the PRs merged to testing and master, roadblocks: there's an error when merging the new collapsible list UI, todo: change colors in settings tab, start looking into deploying the app
- ○ Derek: color coded bathroom markers, roadblocks: because a lot of bathrooms have the same coordinates, they're all stacked on top of each other, todo: edit firebase data to merge stacked bathrooms into one marker
- ○ Jack: worked on color coding collapsible bathrooms list

3/4/20 (Midterm)

- Midterm exam
- Lowered group members happiness

2/27/20 (Lab 8)

- All Present except Derek
- Scrum Meeting:
  - ○ Nick: submitted start zoomed in PR, next steps: complete jump to the map from the list buttons, roadblocks: need to understand the importort firebase markers to the map tab first
  - ○ Lucas: changed the colors on the settings tab to match the colors on the list, started looking into deploying the app using non app store methods, roadblocks: there's a lot of warnings that pop up when the app is being used, todo: continue looking into deployment
  - ○ Kimi: looking into the jump from map from the list buttons, roadblocks: working on understanding how to jump tabs, todo: fix the errors and warnings currently in the app
  - ○ Jack: worked on filtering the bathrooms list, roadblocks: figuring out how to pass the current state to jump to the map
  - ○ Cameron: submitted PR for welcome popup, next steps: look further into deploying the app

3/9/20 (Lecture 16)

- All Present
- Scrum Meeting:
  - ○ Cameron: implemented center on user location when starting the app, will start on the user's manual and presentation
  - ○ Nick: reviewed some PRS, will filter the map markers

- ○ Kimi: made the bathroom list link to the map, will make it also zoom in on the bathroom
- ○ Derek: implemented the markers from firebase, working on fixing overlapping markers
- ○ Jack: working on filtering markers and bathrooms list
- ○ Lucas: reviewed and merged all PRs, working on making testing work

3/12/20 (Code Crunch Time)

- ● All code turned in