

Surf tracker app

[Android app that allows a user to either manually entered data or scrubbed data from NOAA Buoys to customize and create your own personalized data for your favorite surf spots and log your surf session]

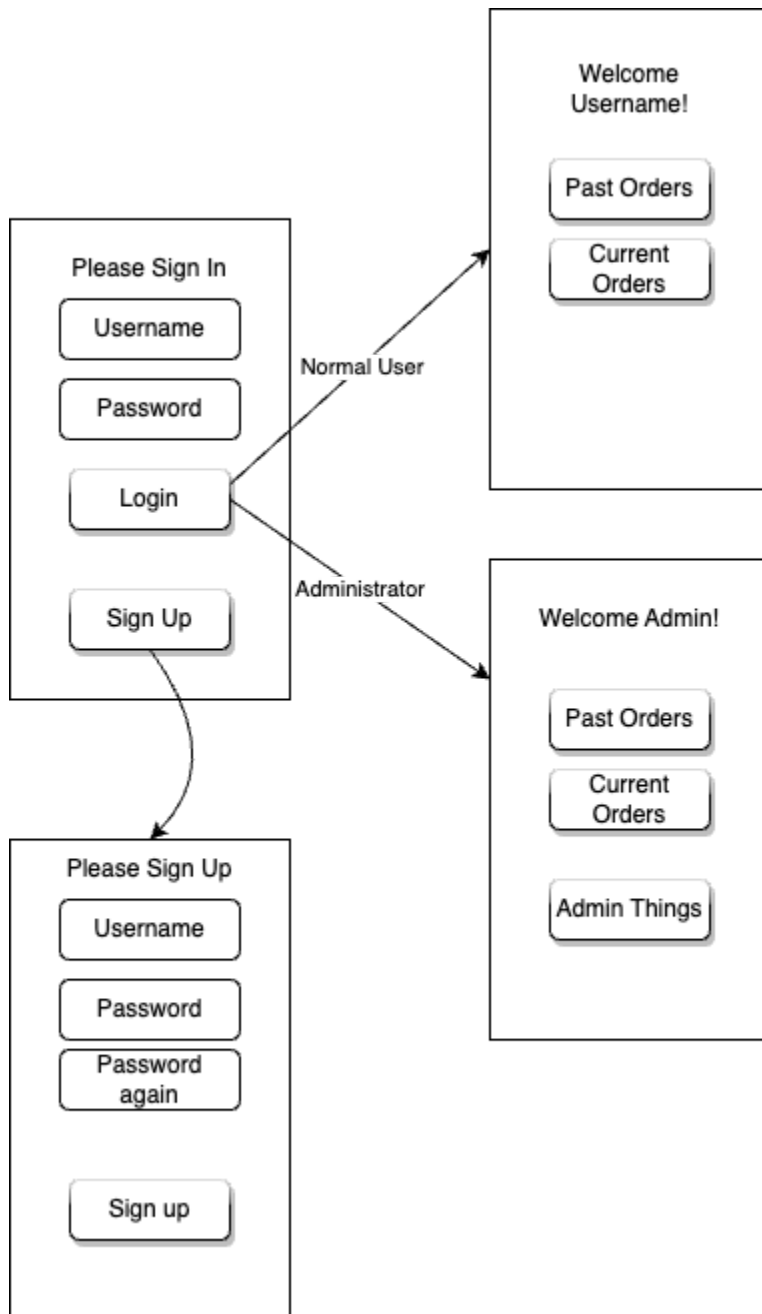
Github: x<https://github.com/connor-bennett/SurfTracker>

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[insert your own ERD here. Note that this will need]	4
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Initial Layout

Include a layout similar to the one shown below. This can be created using screenshots from Android Studio, using [Draw.io](https://draw.io), or even sketched out on paper (or a tablet if you are fortunate enough to have one).



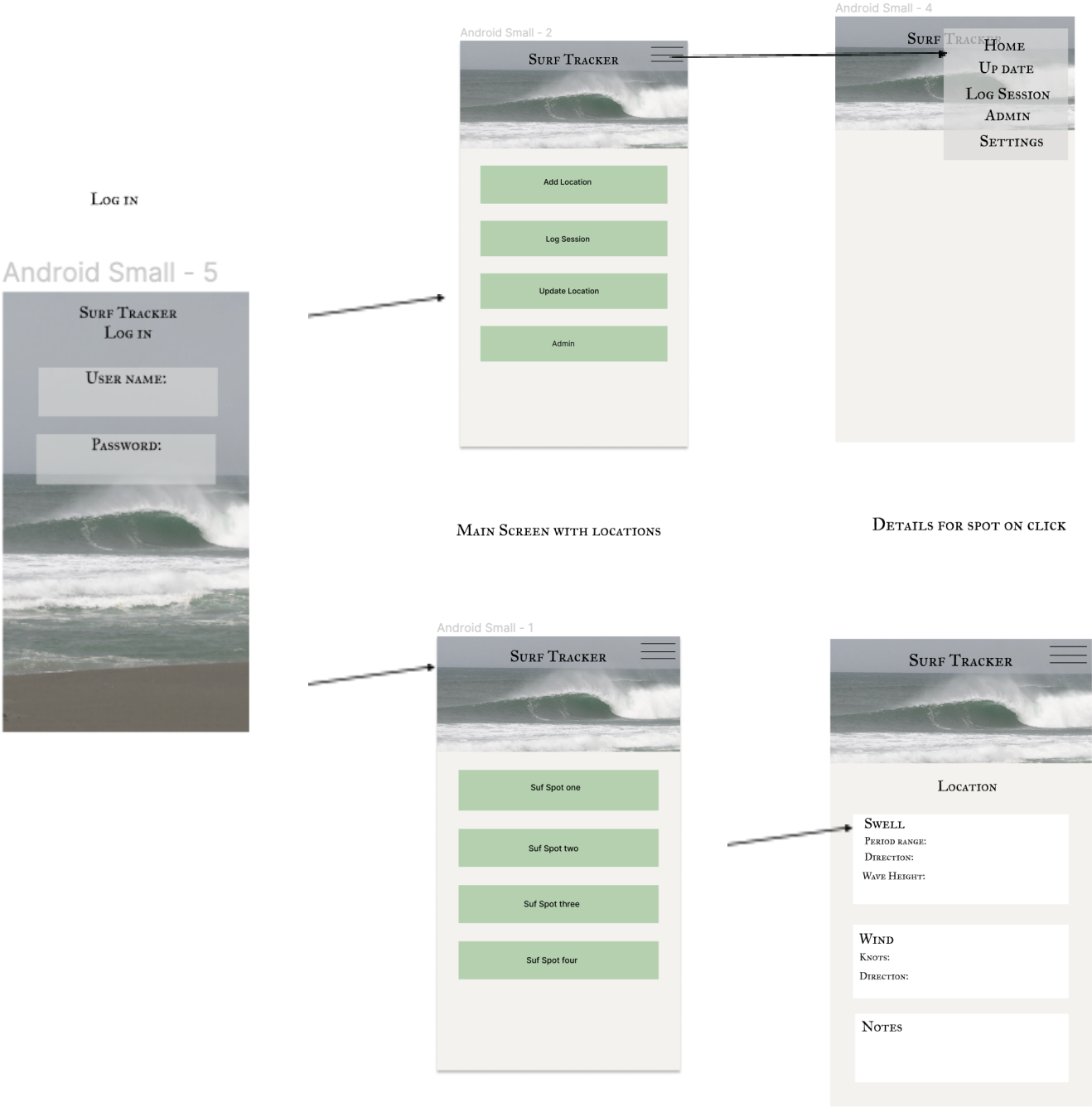
Use Case Model

Admin: Update,Admin Settings, Change Session info.

Normal User: Location info, log Session, drop down menu, user settings

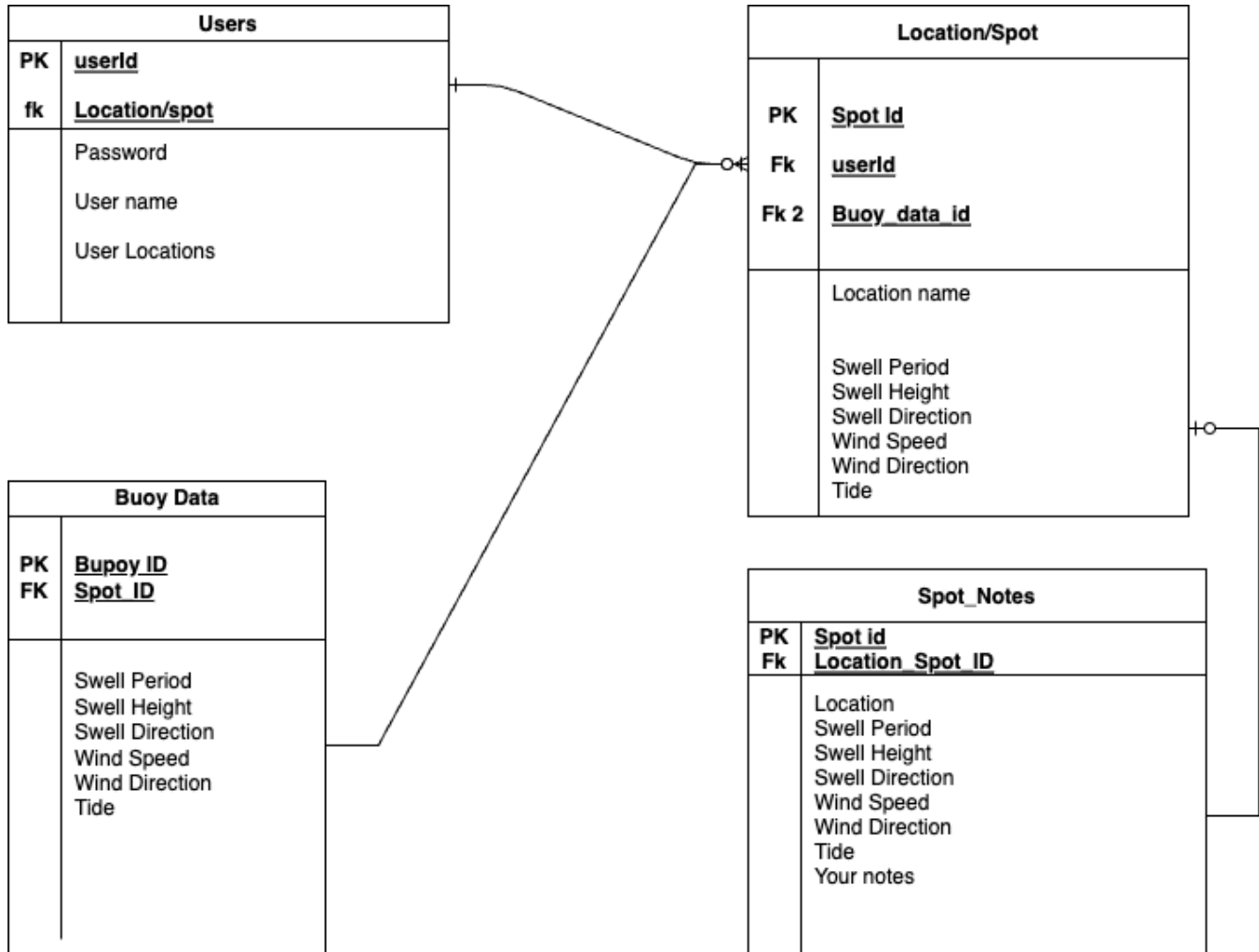
DROP DOWN MENU

SETTINGS



Entity Relationship Diagram (ERD)

The assignment MUST use a database and must have at least three tables



Use Case 01: Predefined Users

1. Force quit the application¹
2. Login as testuser1
3. Display the username 'testuser1'
4. Logout
5. Login as admin2
6. Display the username 'admin2'

¹ How to force quit an application in Android:

<https://www.digitaltrends.com/mobile/how-to-force-close-apps-android/>

7. Display something specific to the admin user.
 - a. Something like an admin button or a link to edit items.

This use case passes if all of these conditions are met. It fails otherwise.

Use Case 02: Persistence

1. Add an item to the database
2. Force quit the application²
3. Show the item added in step 1 is still in the database
4. Change an item in the database
5. Force quit the application
6. Show the item modifications from step 4 have been saved

² How to force quit an application in Android:

<https://www.digitaltrends.com/mobile/how-to-force-close-apps-android/>

Use Case 03: Add a user

1. Prompt user for username and password
 - alternate
 - User already exists
 - Return to screen user already exists and exit
2. Add username and password to appropriate Databases
3. Create unique user ID
4. Verify user has been added
 - alternate
 - If user not added
 - Display error message
 - Start back over at step 1
5. Display user name, password and user ID to screen

Use Case 04: Delete a spot

1. Make sure user is an admin
2. Prompt user to input users ID number and username
3. Remove user from any data bases
4. Check for user once removed
5. If user removed success
6. Return user removed verification

Use Case 05: add location

- Will take location of surf spot from user to create a new report
- 1. Admin logs in
- 2. Verify conditions in report
- 3. Go to add conditions
- 4. Add name to databases
- 5. Return location added successfully

Use Case 06: Drop down menu

- user clicks on drop down menu
- 1. Clicks on drop down menu
- 2. Displays user options
- 3. User logs out
- 4. User can go back if possible

Use Case 07: Log out

User logs out of account

1. User clicks on drop down menu
2. User selects settings
3. User scrolls to log out in settings menu
4. User clicks log out
5. Return to sign in page

Use Case 08: User searches for past session

User can scroll through past logged sessions and look through the data

1. User selects location from main screen
2. User scrolls through location info to past sessions and clicks
3. Load database information with all past session by date at this location
4. User can scroll through all past sessions at this location to look at the data logged

Use Case 09: User goes back from previous activity

User chooses to delete a past session

1. User Enters a new activity
2. Use uses drop down menu to go back to previous activity
3. If Last activity was log in user can not go back
4. Display a message to use that tells them they can no longer go back any further without logging out.

Use Case 10: User searches for past session

1. User logs in
2. User searches through all past session to see what has been logged
3. User adds new session
4. Goes back a sees that session in all session

Use Case 11: User Searches for past session by name

1. User logs in
2. Goes to search for past session
3. Inputs spot name
4. All sessions from that spot appear
5. Clicks back
6. Can go on other actions or log out

WHOOOOHOOO!! I survived!(:

Use Case 12: User adds new spot ideal conditions

1. Log in as admin
2. Navigate to edit conditions button
3. Input spot name and the ideal conditions
4. Go to conditions page and see new conditions
5. Log out and log in as a regular user and see the update