Android App

User Guide

Table of Contents

Switching Screens

- Swiping left and right on the screen will switch between the screens with the screens ordered on the bottom tab bar.
    o Only able to switch tabs in one direction if at an edge of the tab selection list(Home or Settings).
- Touch the different tabs on the bottom of the screen to switch to that screen.

Home Screen

Shows:
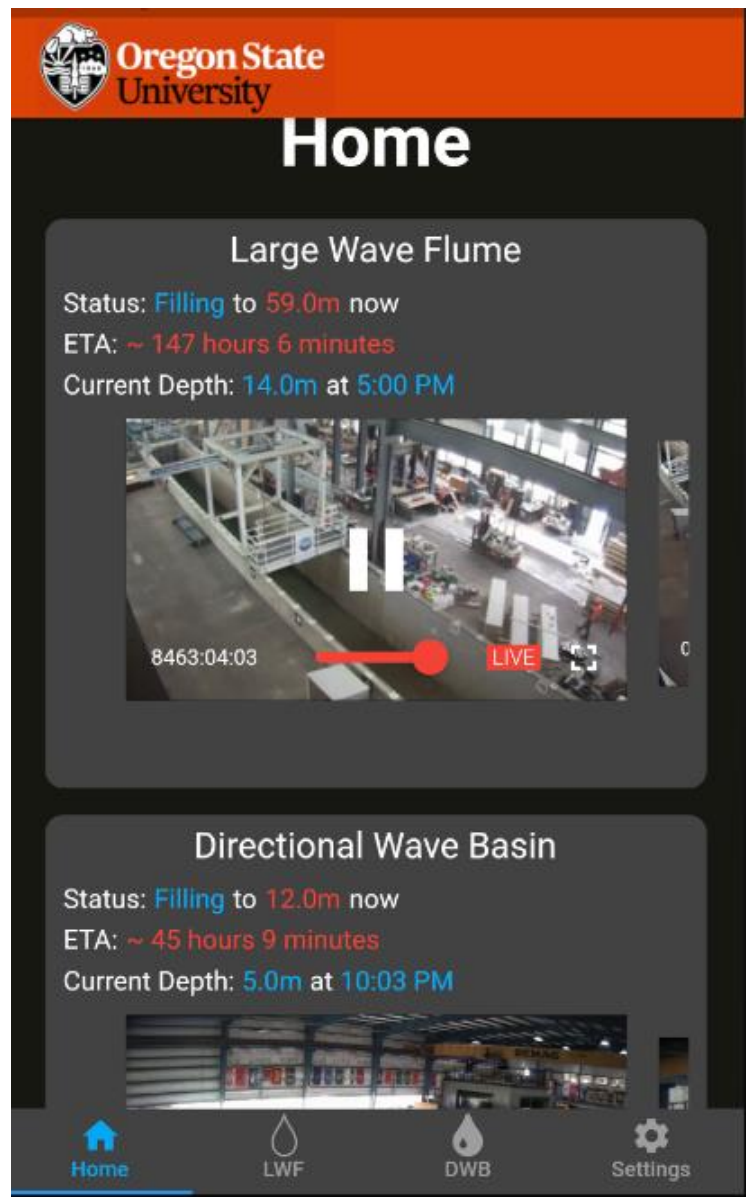The status of both the large wave flume and directional wave basin.

Whether or not filling is occurring.

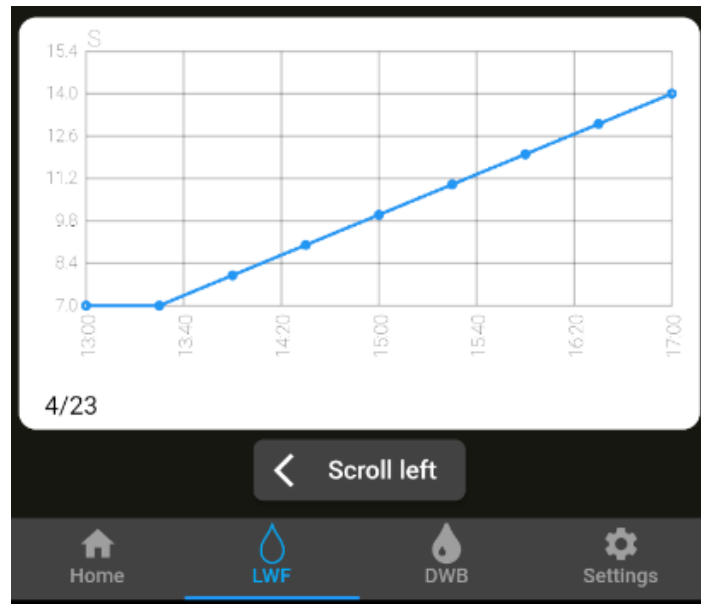The current target water depth.

An estimated finish time if there is a target water depth requested.

The current water depth.

YouTube live views of the flume and basin at the Hinsdale Wave Research Laboratory(scrollable to see different angles).

Flume and Basin Graphs

- The graph of the water depths recorded by the depth sensor over time.
- The data points are pressable to get exact data.
- To change graph to show water depth levels from a different time frame click the buttons below the graph, Scroll left or Scroll right, to move backwards or forwards 4 hours in time.

Flume and Basin Screens
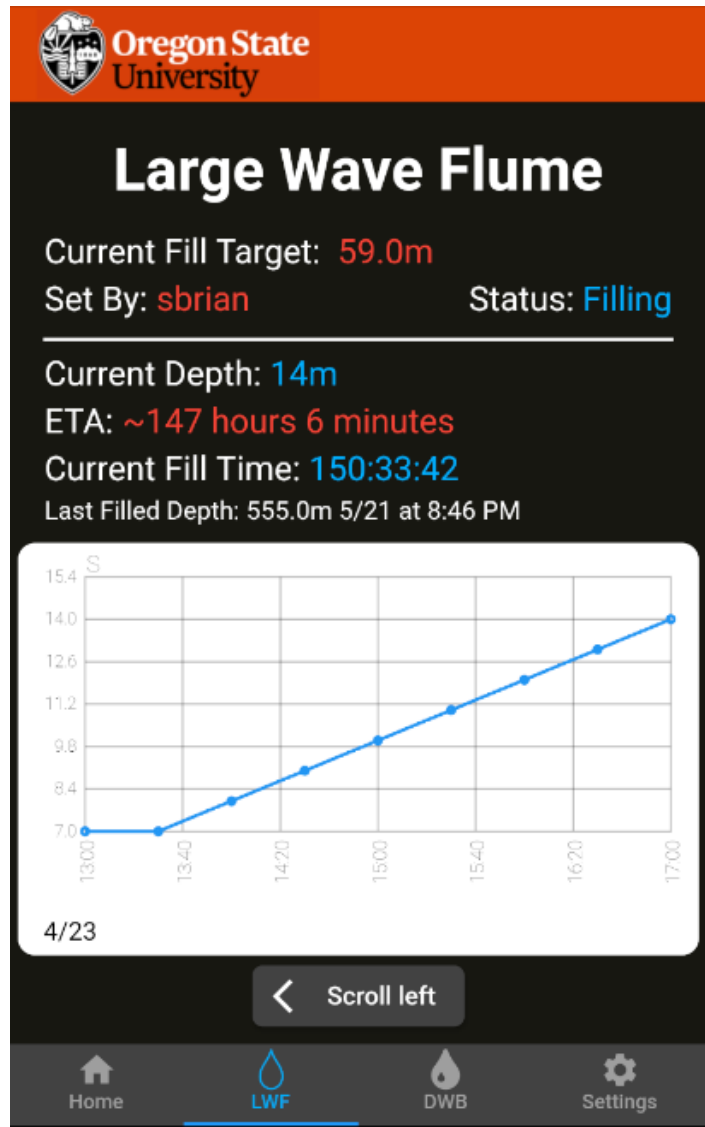
(Not signed in)

Shows :
The current target water depth including the status of the filling process and which user set this depth request.

The current water depth level.

An estimated finish time for the current target depth if there is one.

Time from when the current fill process started.

The last filled target depth and when that began.

Flume and Basin Screens

(Signed in)

Displays a Set New Target button that when pressed allows the user to enter a target depth and an hour offset for when the filling process will start.

Displays a Fill(No Target Depth) button that when pressed allows the user to either stop the current filling process or start the filling process right away without having to set a target depth. The filling process will continue until the max depth is reached or the filling process is stopped.
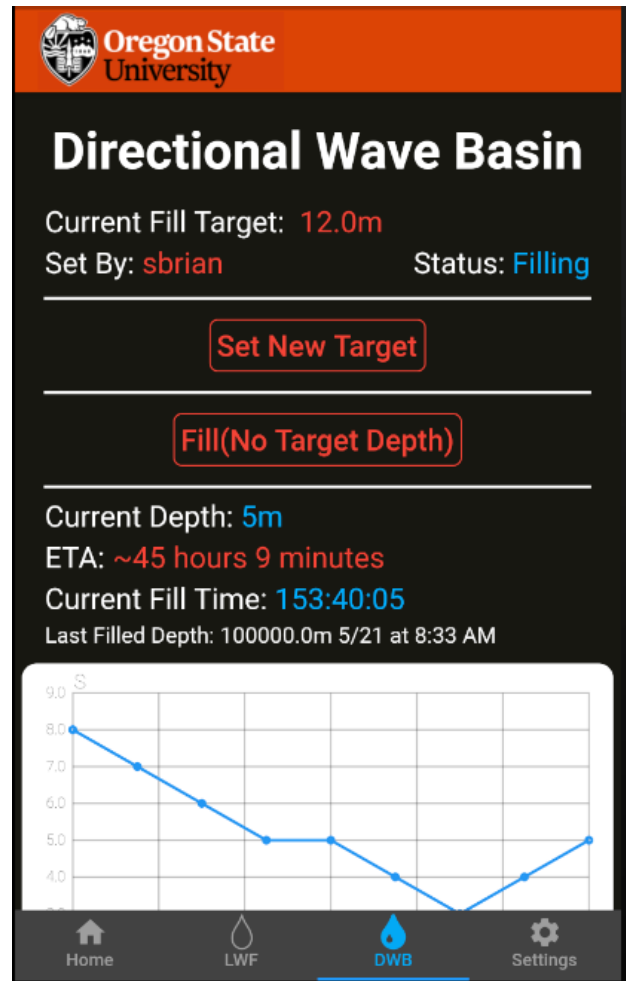
Begin Filling Process

(With target depth)

When the user clicks the Set New Target button after they have signed in and are on either the LWF or DWB page they are shown:

- A text area to enter a target depth for the next request.
- An hour offset button for when the filling process will begin. Scroll through the hours and select one.
- To set the target depth request, press the Add Target button.
- To cancel the target depth request, press the Cancel button.

Oregon State University

Directional Wave Basin

Current Fill Target: 12.0m
Set By: sbrian   Status: Filling

New Depth Target: 0.0m

Delay start filling(in hours):

0 hours

Cancel   Add Target

Fill(No Target Depth)

Current Depth: 5m
ETA: ~45 hours 9 minutes
Current Fill Time: 153:40:05
Last Filled Depth: 100000.0m 5/21 at 8:33 AM

9.0 S

Home   LWF   DWB   Settings

Start/Stop Filling Process

(Without target depth)

When the user clicks the Fill(No Target Depth) button after they have signed in and are on either the LWF or DWB page they are shown:

- A Stop Filling button to stop the current filling process.
- A Start Filling button to start a filling process without setting a target depth and will begin filling immediately
- To remove the Stop Filling and Start Filling buttons and return to the Fill(No Target Depth) button press the red X below both buttons.
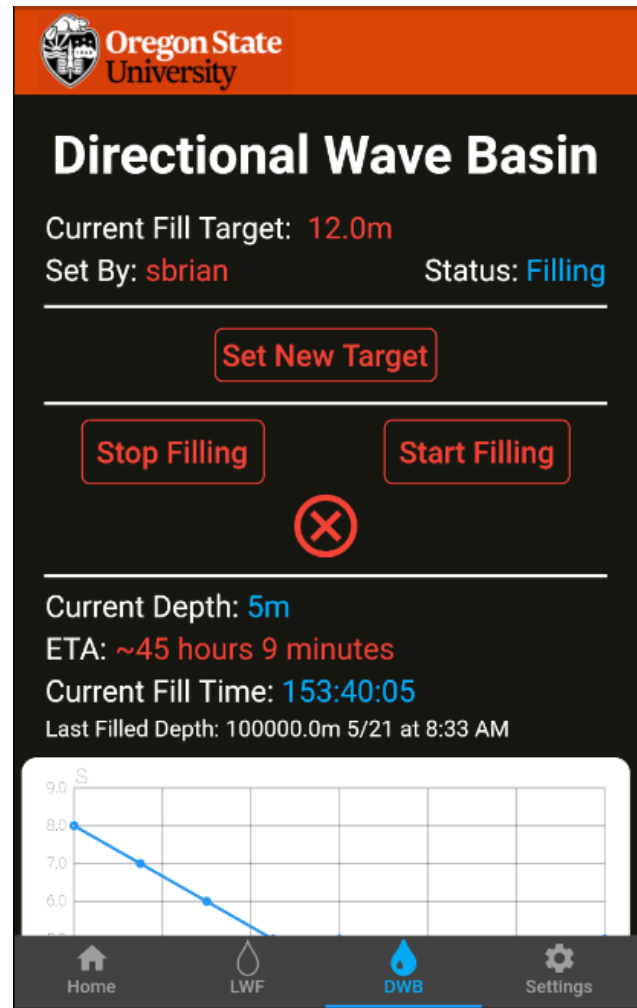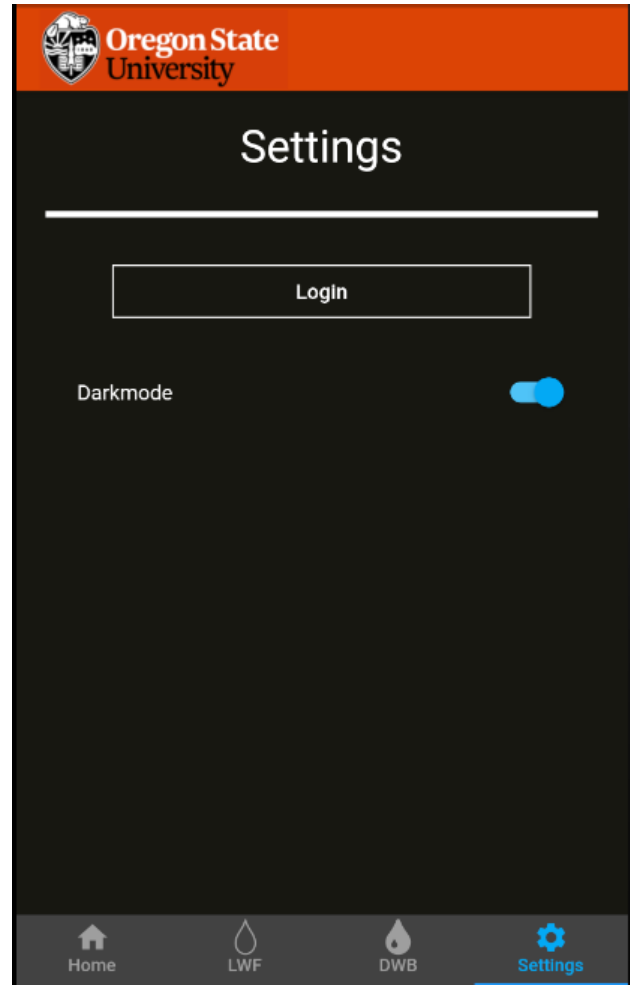
Settings Screen

(Not signed in)

Has a Login button that when pressed has a popup appear where the user can enter their username and password.

A Darkmode button that allows the user to change from a whiter background to a darker background depending on the user's preferences.
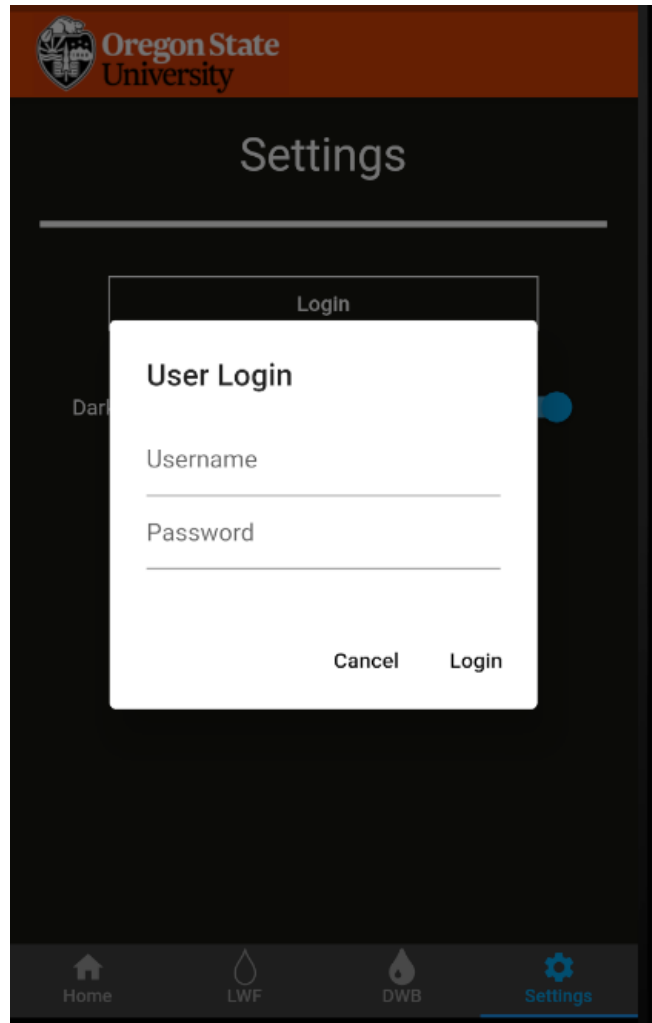
Login

A popup appears when the Login button is pressed.

To cancel the login process, press the Cancel button at the bottom of the popup or press anywhere outside of the popup.

The user will be logged in when they enter a correct username and corresponding password and have pressed the Login button at the bottom of the popup.

Settings Screen

(Signed in)

The user logged in will have their name displayed.

To logout, press the Logout button.