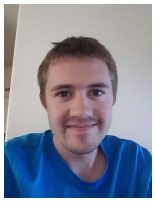
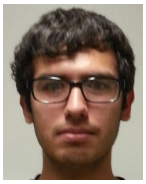
Weekly Team Task Report

Report #19

Team: Hydro Citizens							**Date: 3/27/18**
Project Title:	**Citizens science mobile app for hydrology reporting**						
	**Logan Brewer** Present On-time		**Kelli Ruddy** Present On-time		**Luis Arroyo** Present On-time		**Ryan Ladwig** Present On-time

Recent Meetings:

3/16 - Team Meeting
3/26 - Team Meeting

TASKS COMPLETED since last meeting:

Task Title: Data Visualization from Submitted Data on Mobile	**Task Initiation:** 3/16/18	**Orig. Due Date:** 3/26/18	**Status:** Complete
Who (%): Logan Brewer and Kelli Ruddy			
Description: Be able to take user submitted data and graph it and make the values correspond to different gauges.			
Expected Outcome: A mobile application that allows user submission and taking that user submitted data and plotting it on a graph with different graphs for different gauges.			

Task Title: Process an image taken from a user's camera	**Task Initiation:** 3/16/18	**Orig. Due Date:** 3/26/18	**Status:** Complete
Who (%): Ryan Ladwig			
Description: Allow the user to take an image using their phone's camera and process that image using the computer vision algorithms.			
Expected Outcome: A short demo showing that the user can upload a picture directly from the camera to the Meteor application and process that image.			

Task Title: Adjusting Notifications	**Task Initiation:** 3/16/18	**Orig. Due Date:** 3/26/18	**Status:** Complete
Who (%): Luis Arroyo			
Description: Prevent the login user from receiving notifications constantly when they are close to a gauge.			
Expected Outcome: A mobile application that allows the login user to receive notifications for a certain amount of time. Right now it is doing it for every 3 minutes.			

Task Title: Usability Testing - Software Testing Outline	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** Completed
Who (%): Kelli Ruddy			
Description: Write out the outline to be shown to mentor at mentor meeting.			
Expected Outcome: Have a good baseline to show to mentor and be able to put this into the final document.			

Task Title: Unit Testing - Software Testing Outline	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** Completed
Who (%): Logan Brewer			
Description: Write out the outline to be shown to mentor at mentor meeting.			
Expected Outcome: Have a good baseline to show to mentor and be able to put this into the final document.			

Task Title: Integration Testing - Software Testing Outline	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** Completed

Who (%): Luis Arroyo
Description: Write out the outline to be shown to mentor at mentor meeting.
Expected Outcome: Have a good baseline to show to mentor and be able to put this into the final document.

This week's Tasks: Work plan for coming week

Task Title: Automatic Upload to HydroServer	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** In Progress
Who (%): Kelli Ruddy			
Description: Be able to download geolocation and water height from database to csv file and automatically upload to the HydroServer			
Expected Outcome: Show that database information for a day has been downloaded as a csv and uploaded to HydroServer automatically.			

Task Title: Basic Interface for Viewing Gauges	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** In Progress
Who (%): Kelli Ruddy			
Description: Update application to have a better basic interface for a user when viewing gauges. Discuss with team on Friday meeting on what exactly we want a user to be able to view.			
Expected Outcome: Have a better interface for a user viewing gauges.			

Task Title: User Accounts	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** In Progress
Who (%): Logan Brewer			
Description: A login window for users that will allow them to track their submitted data.			
Expected Outcome: Allow the user to login with a username and password and store their userID with submissions to track submissions for specific users.			

Task Title: Refine image processing interface	**Task Initiation:** 3/26/18	**Orig. Due Date:** 3/30/18	**Status:** In Progress
Who (%): Ryan Ladwig			

Description: Condense all elements of the gauging station submission page to fit onto the screen of a mobile device, and
Expected Outcome: Give a demonstration to the team showing that all elements of the gauging station submission page fit onto the screen of a mobile device.

Task Title: Complete construction of PVC demonstration pole	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** In Progress
Who (%): Ryan Ladwig			
Description: Finish painting and constructing the striped PVC pole that we will using to test and demonstrate the image processing aspects of the mobile application.			
Expected Outcome: Test the algorithms on the pole with the team and use a tape measure to determine the accuracy of the algorithm.			

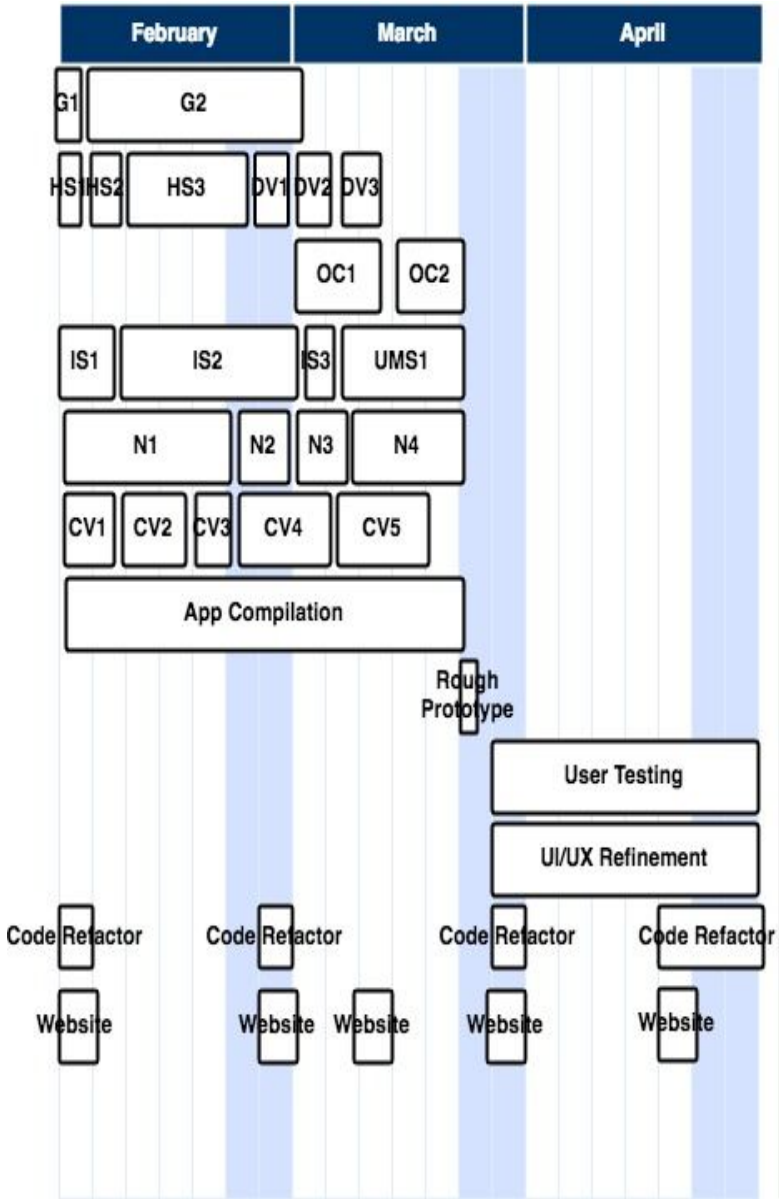
Task Title: Notification: Settings	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** In Progress
Who (%): Luis Arroyo			
Description: A settings option for users that will allow login users the option to turn on/off text messages.			
Expected Outcome: Allow login users to adjust if they want text messages turned on or off.			

Upcoming Tasks: Planning

Task Title: Software Testing Plan	**Who (%):** Whole Team	**Rough Due Date:** 4/3/18

Description: Create the documentation for the software testing.

Other Problems / Other Issues: None



G1: Calculate distance from user to markers on the web app.
G2: Convert to mobile and storing Latitude and Longitude on mobile.
HS1: Get Access.
HS2: Format.
HS3: Submit data.
DV1: HydroServer visualization.
DV2: NWM visualization.
DV3: NWIS visualization.
OC1: Caching data from the NWM and gauge information.
OC2: User submitted image for caching.
IS1: Store image on a flat file.
IS2: Convert to mobile.
IS3: Store name of image as metadata.
UMS1: Set up user account system.
N1: Get notification send to mobile.
N2: Get notification send to mobile offline.
N3: Allow users to modify notification settings.
N4: Apply notification with geolocation, NWM, and NWIS.
CV1: Translate code to JavaScript.
CV2: Draggable elements.
CV3: Get pole data.
CV4: Calculate final measurement and save to file.
CV5: Refine algorithm.