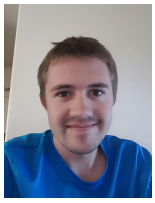
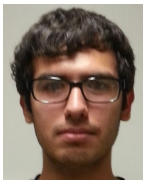
Weekly Team Task Report

Report #20

Team: Hydro Citizens	**Date: 4/3/18**
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:

3/30 - Team Meeting

TASKS COMPLETED since last meeting:

Task Title: User Accounts	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** 75%
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: Automatic Upload to HydroServer	**Task Initiation:** 3/26/18	**Orig. Due Date:** 4/3/18	**Status:** 75%
Who (%): Kelli Ruddy			
Description: Be able to download geolocation and water height from database to csv file and automatically upload to the HydroServer - automatic upload to HydroServer issues. Contacted CUAHSI to see if they have any API's to work with			
Expected Outcome: Show that database information for a day has been downloaded as a csv and uploaded to HydroServer automatically.			

Task Title: Refine image processing interface	**Task Initiation:** 3/26/18	**Orig. Due Date:** 3/30/18	**Status:** Complete
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:** Complete
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:** Complete
Who (%): Luis Arroyo			
Description: A settings option for users that will allow login users the option to turn on/off text messages, adjust the proximity, and in how many minutes will they receive the notification.			
Expected Outcome: Allow login users to adjust if they want text messages turned on or off, adjust the proximity, and receive notifications every certain minute depending on which button they click on.			

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:** 3/30/18	**Orig. Due Date:** 4/10/18	**Status:** In Progress
Who (%): Kelli Ruddy			
Description: Contacted CUAHSI to see if they have available API to automatically upload a csv file to HydroServer.			
Expected Outcome: Have an automatic upload of geolocation, water height and time and date.			

Task Title: User Accounts	**Task Initiation:** 3/30/18	**Orig. Due Date:** 4/10/18	**Status:** In progress
Who (%): Logan Brewer			
Description: Create the users collection that will exist with our submitted_data collection.			
Expected Outcome: The automatically generated users collection as well as our submitted_data collection so we can store users and still maintain our submitted data.			

Task Title: Pull NWM data and plot against users points	**Task Initiation:** 3/30/18	**Orig. Due Date:** 4/10/18	**Status:** In progress
Who (%): Logan Brewer and Kelli Ruddy			
Description: Pull NWM data to plot against user points on charts.			
Expected Outcome: Be able to plot data for a specific gauge that comes from NWM.			

Task Title: Offline Caching	**Task Initiation:** 3/30/18	**Orig. Due Date:** 4/10/18	**Status:** In Progress
Who (%): Luis Arroyo			
Description: Store the submitted data of the water gauge while the user is offline.			
Expected Outcome: Being able to store the user's data while the user is offline.			

Task Title: Adjust and refine OpenCV on mobile	**Task Initiation:** 3/30/18	**Orig. Due Date:** 4/10/18	**Status:** In Progress
Who (%): Ryan Ladwig			
Description: Refine the algorithms so that they are better able to detect the stripes on a PVC pole.			
Expected Outcome: Show the team that mobile application is able to consistently detect most, if not all, stripes on a striped PVC pole.			

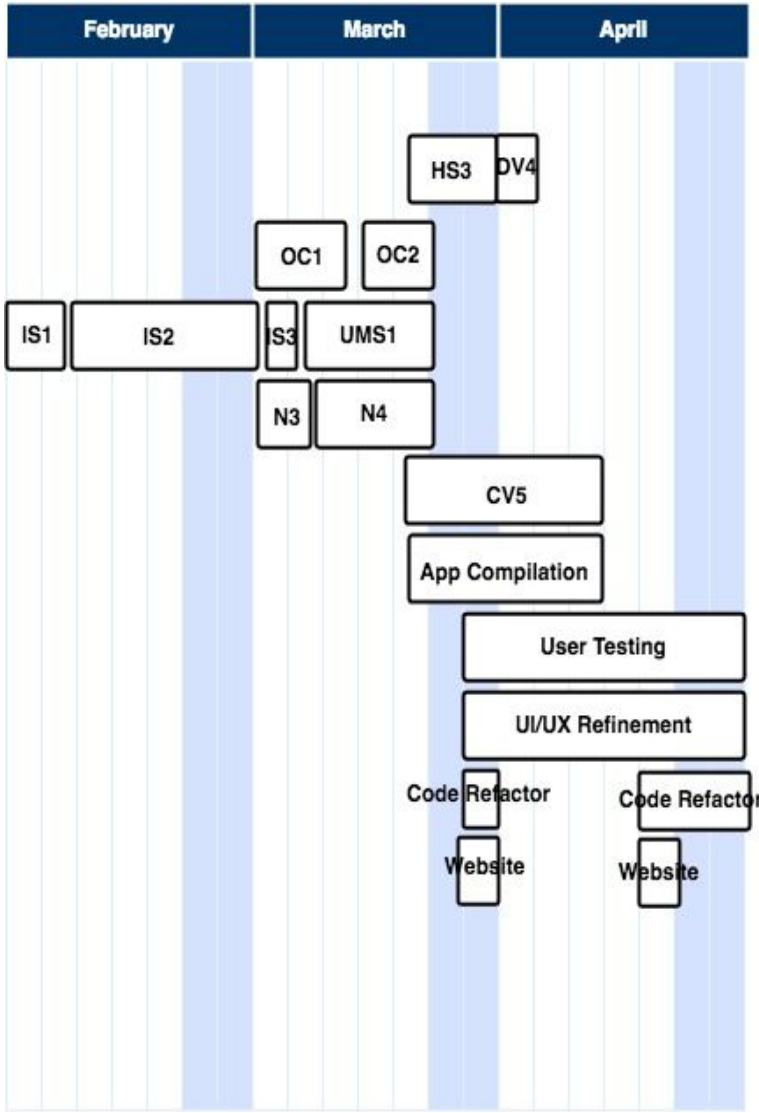
Task Title: Complete Software Testing Plan Final Document	**Task Initiation:** 3/30/18	**Orig. Due Date:** 4/5/18	**Status:** In Progress
Who (%): Whole Team			

Description: Complete software testing plan document based off of mentors feedback on outline given at mentor meeting.
Expected Outcome: Have a cohesive and well written software testing plan.

Upcoming Tasks: Planning

Task Title: Design Review 3	**Who (%):** Whole Team	**Rough Due Date:** 4/12/18
Description: Begin working on slides for design review.		

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.