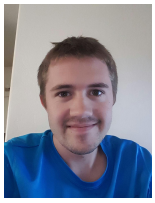
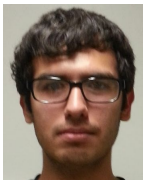
Weekly Team Task Report

Report #17

Team: Hydro Citizens	**Date: 2/27/18**
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:

2/23- Team Meeting

TASKS COMPLETED since last meeting:

Task Title: Convert image uploading to mobile	**Task Initiation:** 2/7/18	**Orig. Due Date:** 2/13/18	**Status:** Completed
Who (%): Kelli Ruddy and Logan Brewer			
Description: Be able to have a working mobile application where a user can submit a photo via their gallery.			
Expected Outcome: Be able to present a tech demo by next mentor meeting showing a more refined working application on mobile where a user can upload an image from their photo gallery to a folder. Have completed and show to team on Friday 2/16 meeting.			

Task Title: Get geolocation working on mobile for image storing	**Task Initiation:** 2/13/18	**Orig. Due Date:** 2/20/18	**Status:** 95%
Who (%): Logan Brewer			
Description: Take Luis' geolocation app and combine it with Kelli's data submission in 1 application.			
Expected Outcome: A mobile application that runs geolocation and the user submission all in one.			

Task Title: Mini Tech Demo: Draggable Refinement	**Task Initiation:** 2/13/18	**Orig. Due Date:** 2/20/18	**Status:** Complete
Who (%): Ryan Ladwig			
Description: Retrieve position of both the top **and** bottom of the pole, and also retrieve the position(s) of the draggable HTML elements in relation to the image. Confine lines to image only.			
Expected Outcome: Deliver a miniature tech demo to the team that proves that both of these measurements can be retrieved from the image and that the position of the two movable HTML elements can also be retrieved reliably.			

Task Title: UGrads Abstract Draft	**Task Initiation:** 2/20/18	**Orig. Due Date:** 2/26/18	**Status:** Completed
Who (%): Whole Team			
Description: Each member of the team must read the description for the UGrads Registration task, and be prepared to start working on the associated documents			
Expected Outcome: Have researched all of the requirements for the UGrads Registration Task, and be able to brainstorm as a team.			

Task Title: UGrads Registration Task - Draft	**Task Initiation:** 2/20/18	**Orig. Due Date:** 2/26/18	**Status:** Completed
Who (%): Whole Team			
Description: Each member of the team must read the description for the UGrads Registration task, and be prepared to start working on the associated documents			
Expected Outcome: Have researched all of the requirements for the UGrads Registration Task, and be able to brainstorm as a team.			

Task Title: Finalize Measurements algorithm	**Task Initiation:** 2/20/18	**Orig. Due Date:** 2/27/18	**Status:** Complete
Who (%): Ryan Ladwig			
Description: Develop the algorithm that will be able to finalize the measurements at a water gauge. May use test data to test the algorithm.			
Expected Outcome: Test the algorithm, in front of the team, and show how the algorithm works.			

This week's Tasks: Work plan for coming week

Task Title: Modify Image Upload App	**Task Initiation:** 2/23/18	**Orig. Due Date:** 3/6/18	**Status:** 50%
Who (%): Kelli Ruddy			
Description: Modify upload app to allow user to view specific water gauges and its uploads.			
Expected Outcome: An application that allows users to view specific gauges to upload data to and also allow users to login to the application.			

Task Title: Finish mobile integration	**Task Initiation:** 2/23/18	**Orig. Due Date:** 3/6/18	**Status:** In Progress
Who (%): Logan Brewer			
Description: Add the ability to login to the app with dummy accounts.			
Expected Outcome: Have mobile application with geolocation and photo submission that you can login to.			

Task Title: Combine CV with user input	**Task Initiation:** 2/27/18	**Orig. Due Date:** 3/6/18	**Status:** In Progress
Who (%): Ryan Ladwig			
Description: Combine the CV algorithms with user input to show that the user can adjust measurements made by OpenCV			
Expected Outcome: Show the team that this method can be used to reasonably adjust measurements made by the CV algorithm (preferably with real PVC pole)			

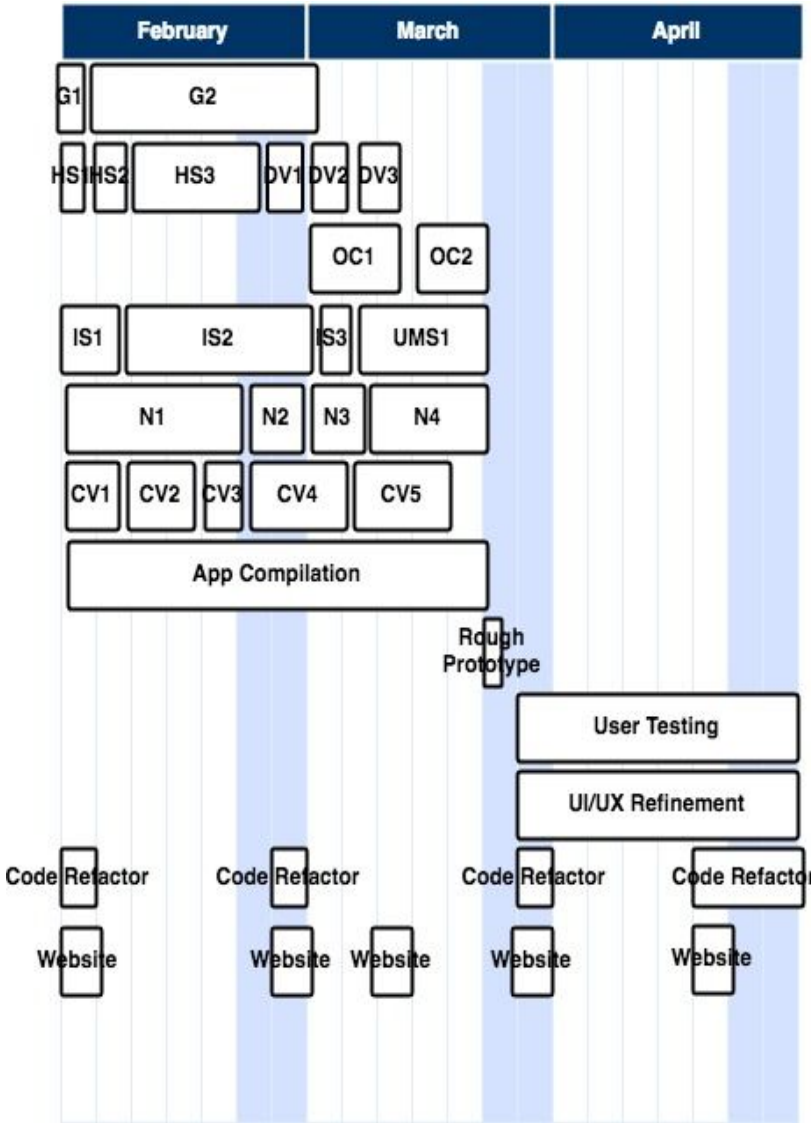
Task Title: Notification	**Task Initiation:** 2/7/18	**Orig. Due Date:** 2/13/18	**Status:** 30%
Who (%): Luis Arroyo			
Description: Be able to implement notifications using the Amazon SNS on an Android device.			
Expected Outcome: Be able to present a tech demo by next mentor meeting showing a notification on an Android device when it is send from the server. Have completed and show to team on Friday 2/27 meeting.			

Upcoming Tasks: Planning

Task Title: Design Review II	**Who (%):** Whole Team	**Rough Due Date:** 3/1/18
Description: Develop rough draft of our presentation for the Design Review II		

Other Problems / Other Issues:

- Kelli's computer issues.
- Still having issues with Amazon SNS using Meteor and NPM packages.



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.