

The app is primarily used in mobile devices during survey and the computer browser version of the app will only be different in terms of element placement that better fits a landscape screen. Except the data retrieval page which will be explained later in the demonstration.

Say student scott needs to map a stream, he will first be greeted by the main page. He can choose to login or sign up. Since the sign up page will be similar to the login page, in this demonstration, Scott has already signed up.

So he clicks login. At this point if he forgot about the operation of the app, he can always click the go back button which takes him back to the main page. Then he can click the help button for instructions.

He clicks go back to the main page then he clicks login, where he chooses sign in as student and finally logins.

After he gets in the logged-in main page, he can choose to record data or retrieve data. So he clicks record data button, and input the assigned stream and section he is surveying as well as class ID, and submit that as well.

He finally gets to the data collection page.

Here he clicks record, and starts walking. As he walks he will switch the wet or dry toggle and pool or riffle toggle. in each distance interval, data points of GPS location with wet/dry and pool/riffle stats will be automatically recorded.

The user can pause and resume tracking anytime. If he gets to a location that has extra interesting features, he can click to add Point of interest which he can choose to attach a picture of the location and add description to that POI and submit.

After the stream section is walked through, the user clicks End and will be brought to a review stream data screen which the path he walked will be superimposed onto the map with the trail colour corresponding to the wet/dry and pool/riffle stats. Below that is a list showing each GPS location attached with, again, the wet/dry and pool/riffle data.

Now he clicks submit and will be brought to the data retrieval page, because of the limited screen page on the phone, users will only get limited filtering options to search data. But if he uses a full size computer and gets to the data retrieval page there. He will get the better options of searching for a certain combination of data points.