

Programming Staff

Preliminary Usability Test Results

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Programming Staff

- Front end application for citizen scientists to upload and visualize staff gauge hydrology data.
- Information can be uploaded by the users either by entering the required fields or by clicking picture.
- The main goal of the application is it should be simple, robust and user friendly



Test 1

- In this test I asked the participants to work on accounts i.e creating and restoring an old account.
- This test mainly intends to check the functionality and the speed in performing this action.
- The data collected in this test is the time taken to perform the action and number of participants who could complete the test without any mistakes.
- And to find the difficulties encountered by participants.



Test 2



- In this test I've asked the participants to enter the data manually.
- This test mainly intends to check the functionality.
- The data collected in this test is number of participants who could complete the test without any mistakes and to find the difficulties encountered by participants.



Test 3



- In this test I've asked the participants to enter the data by clicking a picture.
- This test mainly intends to check the functionality.
- The data collected in this test is number of participants who could complete the test without any mistakes and to find the difficulties encountered by participants.



Usability Results

Test 1

- The average time taken for creation of account is 1.06 minutes.
- Only two out of five participants could complete the task without any mistakes.

Test 2

- Almost every participant could complete the task except for one
- Most of them had issues with the size of the text they entered.

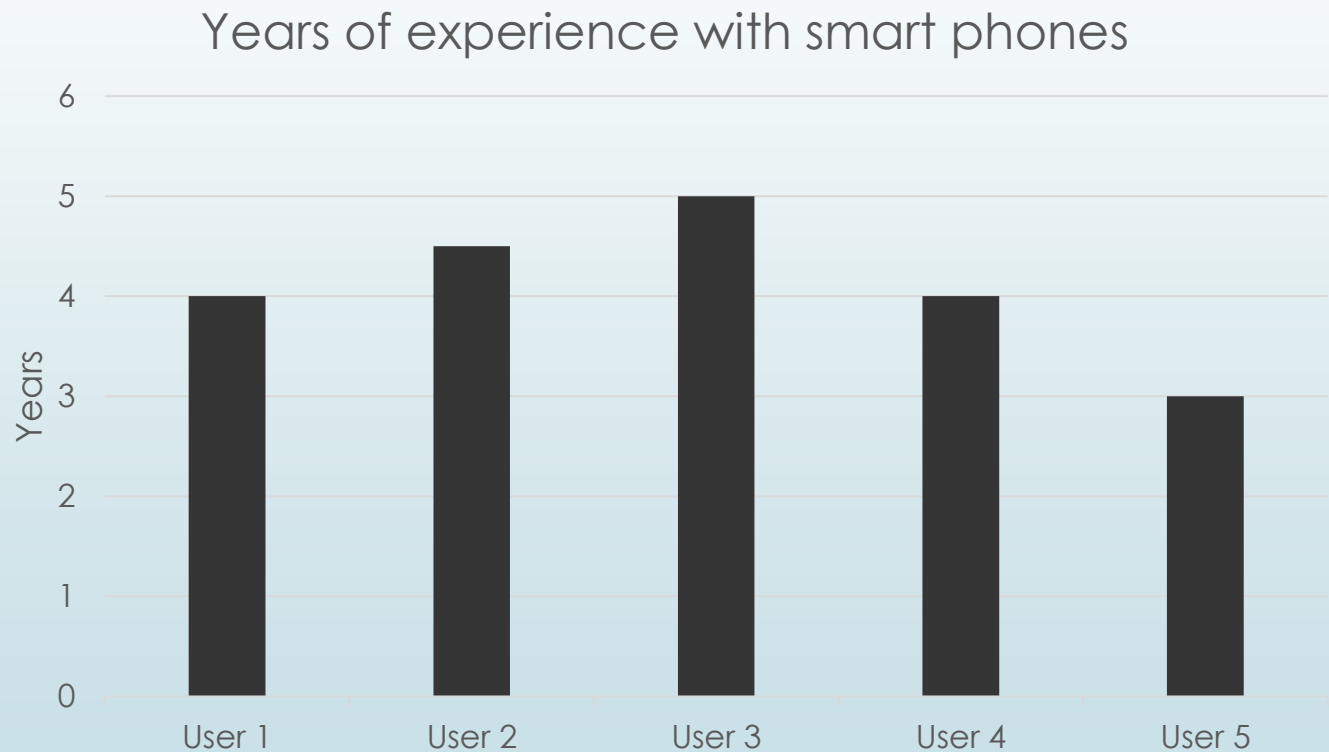


Usability Results

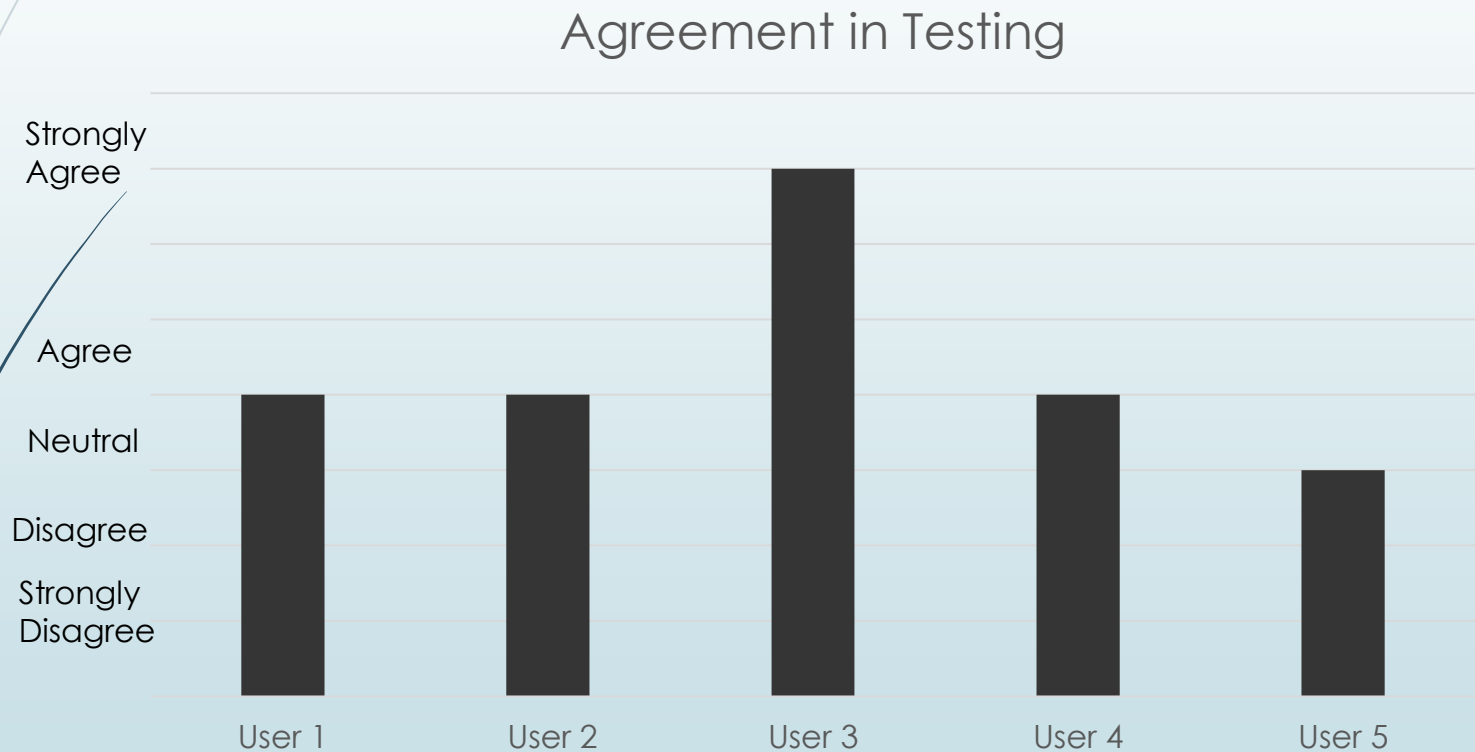
Test 3

- Everyone could complete the task without any mistakes.
- Had issues with the retake/reuse button.

Results of Common Usability Questions



Results of Common Usability Questions





Results of Common Usability Questions

- All the user felt that the application was simple
- Except for one every one felt that it looks like the same as what they expected it to be.



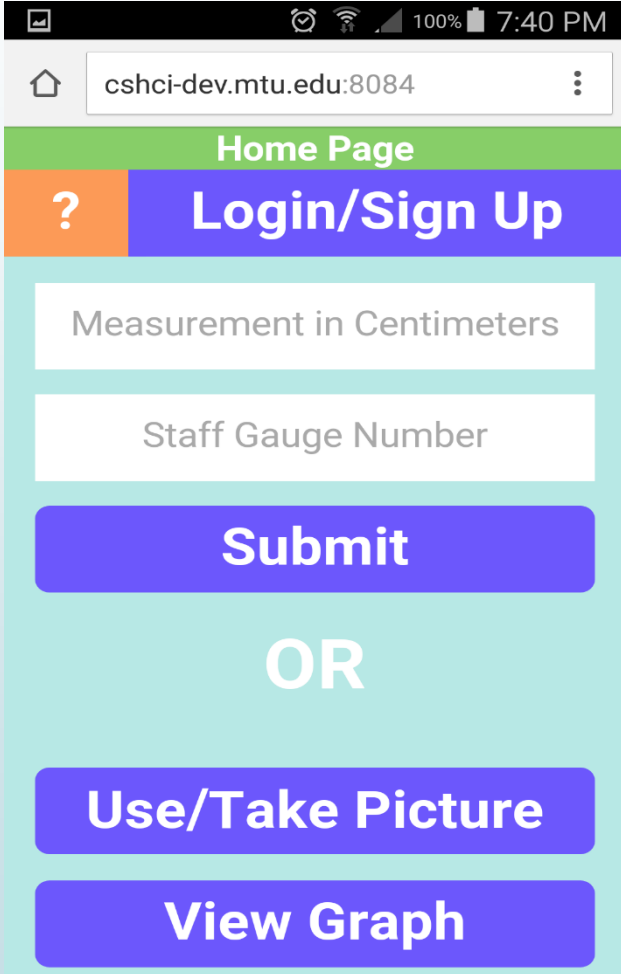
Bugs



Bug Number	Bug Name	Bug Location	Bug Description
1	Email verification	Login page	Couldn't send the password to the email.
2	Image Preview	Submission Page	No image preview after clicking a pic.
3	Profile information	Profile page	There is tracking information on an account.

Recommended Changes

- Use different buttons for login and sign up.



The image shows a mobile application interface on a smartphone. At the top, the status bar displays icons for home, alarm, Wi-Fi, cellular signal, 100% battery, and the time 7:40 PM. Below the status bar is a browser address bar showing a home icon, the URL 'cshci-dev.mtu.edu:8084', and a menu icon. The main content area has a green header bar labeled 'Home Page'. Below this is a navigation bar with an orange square containing a white question mark and a blue bar labeled 'Login/Sign Up'. The form consists of two white input fields on a light blue background: 'Measurement in Centimeters' and 'Staff Gauge Number'. Below these fields is a large blue button labeled 'Submit'. In the center of the screen is the word 'OR' in white. At the bottom are two more blue buttons: 'Use/Take Picture' and 'View Graph'.

Home Page

? Login/Sign Up

Measurement in Centimeters

Staff Gauge Number

Submit

OR

Use/Take Picture

View Graph

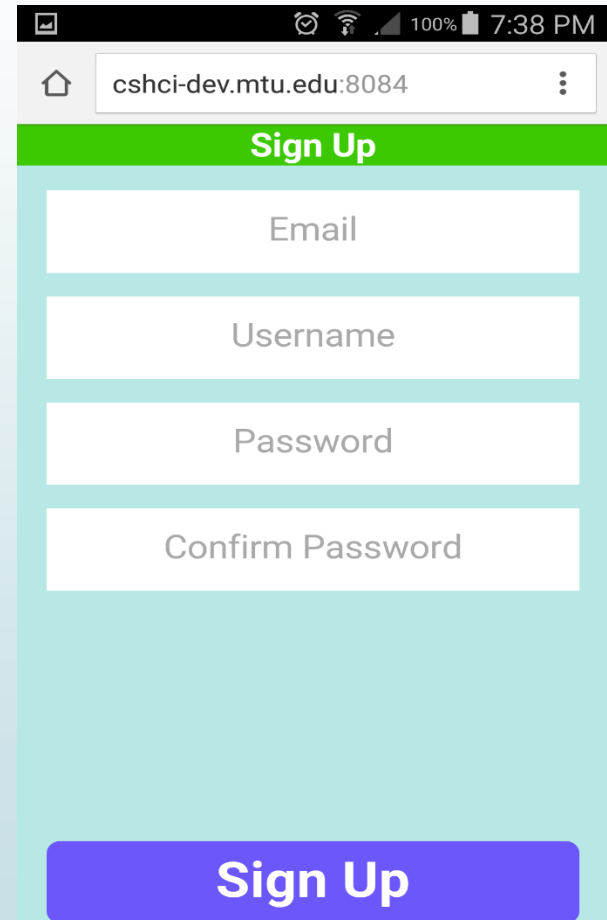
Recommended Changes

- Adjust the size of text boxes such that one can see the data they enter.

The screenshot shows a mobile application interface on a smartphone. At the top, the status bar displays icons for signal, Wi-Fi, battery (100%), and time (7:40 PM). Below the status bar is a navigation bar with a home icon, a text input field containing 'cshci-dev.mtu.edu:8084', and a menu icon (three dots). The main content area has a green header 'Home Page' and a blue navigation bar with a question mark icon and the text 'Login/Sign Up'. Below this, there are two text input fields: 'Measurement in Centimeters' and 'Staff Gauge Number'. The 'Staff Gauge Number' field has a green label 'Staff Gauge Number' below it. Below the input fields is a blue 'Submit' button. Below the 'Submit' button is the text 'OR'. Below 'OR' are two blue buttons: 'Use/Take Picture' and 'View Graph'. At the bottom of the screen is a keyboard with a dark grey header showing 'Ah', 'I', 'Sahi', and a right arrow. The keyboard has rows of letters and numbers, a blue arrow key, and a 'Go' button at the bottom right.

Recommended Changes

- Add a back button to get back to the home page.



A mobile application mockup for a sign-up page. The interface is displayed on a smartphone screen with a black status bar at the top showing icons for signal, Wi-Fi, battery, and the time 7:38 PM. Below the status bar is a white address bar containing a home icon, the URL 'cshci-dev.mtu.edu:8084', and a three-dot menu icon. The main content area has a light blue background. At the top of this area is a green header bar with the text 'Sign Up' in white. Below the header are four white input fields with light blue borders, each containing a placeholder label: 'Email', 'Username', 'Password', and 'Confirm Password'. At the bottom of the form is a large, rounded purple button with the text 'Sign Up' in white.

Recommended Changes

- We can exclude the view graph button.

The image shows a mobile application interface on a smartphone. At the top, the status bar displays 'H2O', signal strength, Wi-Fi, 100% battery, and the time '7:38 PM'. Below the status bar is a browser address bar showing 'cshci-dev.mtu.edu:8084'. The app's main content area has a light blue background. It starts with a green header bar labeled 'Home Page'. Below this is a navigation bar with an orange square containing a white question mark on the left and a blue bar with the text 'Login/Sign Up' in white. The main form area contains two white input fields: 'Measurement in Centimeters' and 'Staff Gauge Number'. Below these fields is a large blue button labeled 'Submit'. Underneath the 'Submit' button is the word 'OR' in large white letters. At the bottom of the form area are two more blue buttons: 'Use/Take Picture' and 'View Graph'.

H2O 100% 7:38 PM

cshci-dev.mtu.edu:8084

Home Page

? Login/Sign Up

Measurement in Centimeters

Staff Gauge Number

Submit

OR

Use/Take Picture

View Graph



Questions??
Or
Comments