

Preliminary Usability Test Results

KUBER DUTT SHARMA

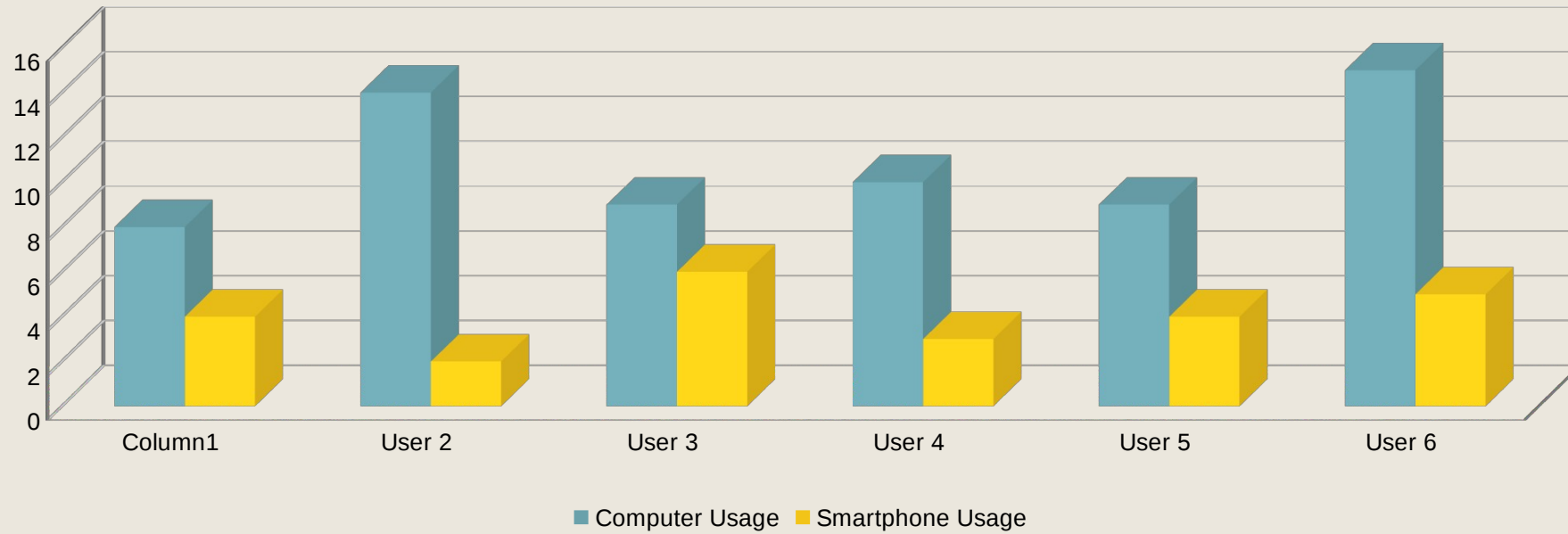
The Team and its App:

The goal of this application is to deliver a simple, convenient solution for documenting and identifying dead birds found, as well as analyzing causes for bird mortality.

Name	Role	Department
Eric Vasey	Team Leader	Computer Science
Rebecca Driver	Team Leader	Humanities
Caleb Chapman	Team Member	Computer Science
Jonathan Faron	Team Member	Computer Science
Ryan Fenton-Garcia	Team Member	Computer Science
Bradley Ross	Team Member	Computer Science
Kuber Dutt Sharma	Consultant	Computer Science
Haitang Duan	Consultant	Computer Science

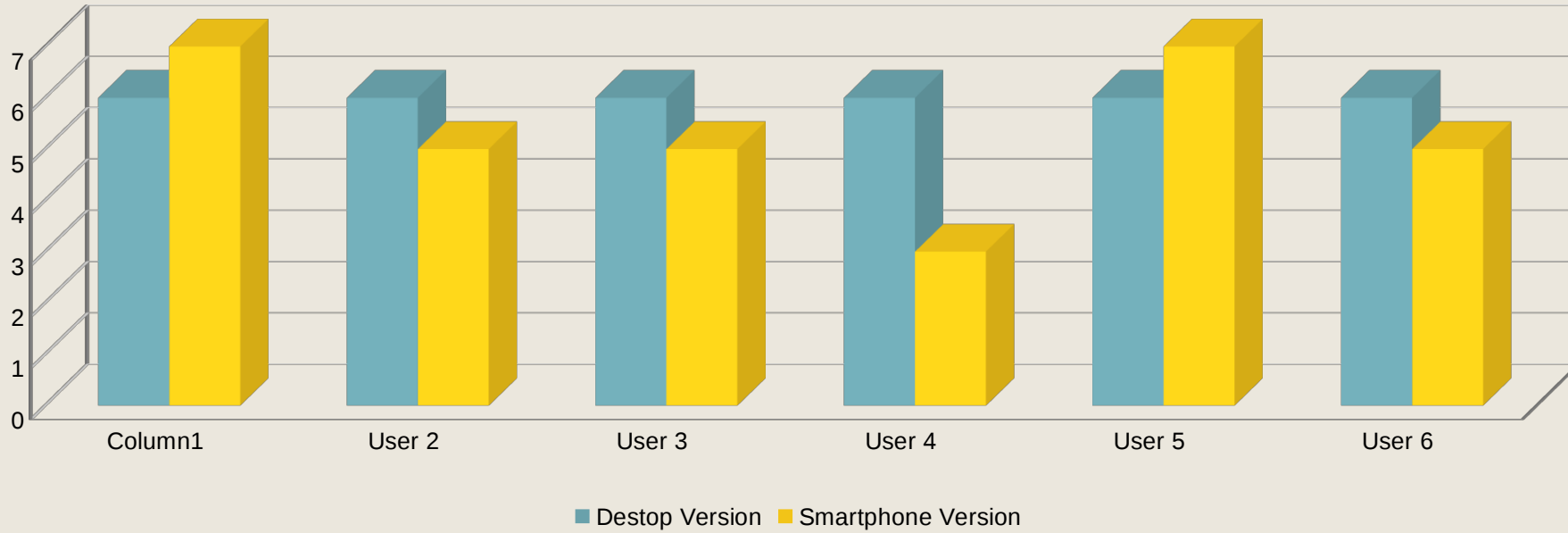
Quick Figures

Pre-Test Questions



Quick Figures

Post-Test Ratings



User Description

■ Primary user: Citizen

■ Functionalities:

- *Sign-up and create an account*
- *Report incidents of bird deaths as registered user*
- *Report incidents of bird deaths as guest user*
- *View all database entries*

■ Secondary user: Scientist

■ Functionalities:

- *Sign-up and create an account*
- *Report incidents of bird deaths as expert*
- *Validate incidents of bird deaths as expert*
- *Access all database entries*

Test Scenario

■ Scenario 1:

- *Sign-up as a user and log out*
- *Sign-up as an expert and log out*
- *Login as a registered user*
- *Login as a registered expert*

■ Scenario 2:

- *Report incident as registered user*
 - Edit a submitted report
- *Report incident as guest user*
 - Edit a submitted report
- *Report incident as registered expert*
 - Edit a submitted report

Test Scenario (Contd.)

■ Scenario 3:

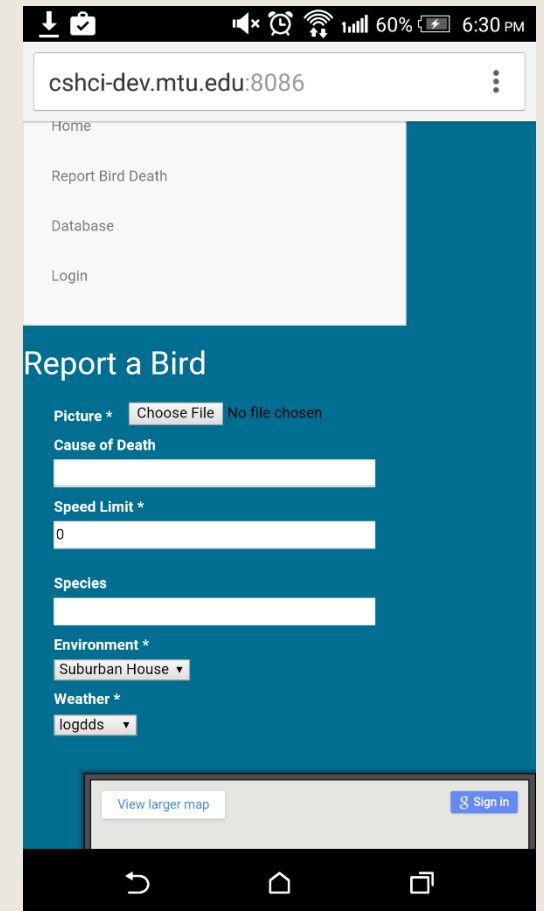
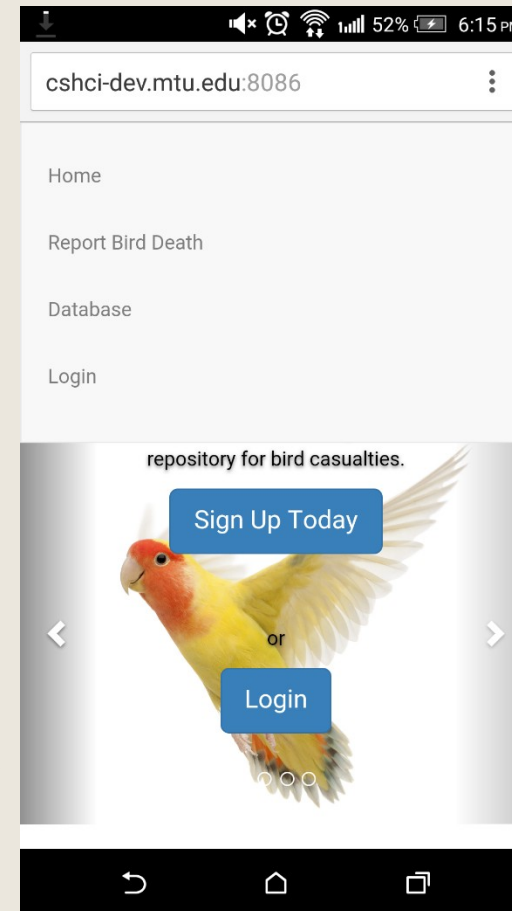
- *Validate a user report in database*
- *Edit a user report in database*

Key Features:

- Sign-up and login works fine
- Post sign-up all users receive user verification email
- Unique usernames are accepted
- Guest reports are submitted
- Registered user reports are submitted
- Users can submit reports without images
- Expert reports are submitted
- Expert can validate user reports
- Expert can edit user reports

Design Flaws

- The user can login without verifying the account
- No additional features after logging in
- The system lacks a user profile
- The menu is clustered at the left corner
- User cannot edit their reports
- Ambiguously designed user forms
- Newer entries in database are inserted at the end
- No moderation over user records
- Browser compatibility issues for location capturing
- Poorly selected color scheme
- Application information is missing



Potential Security Threats

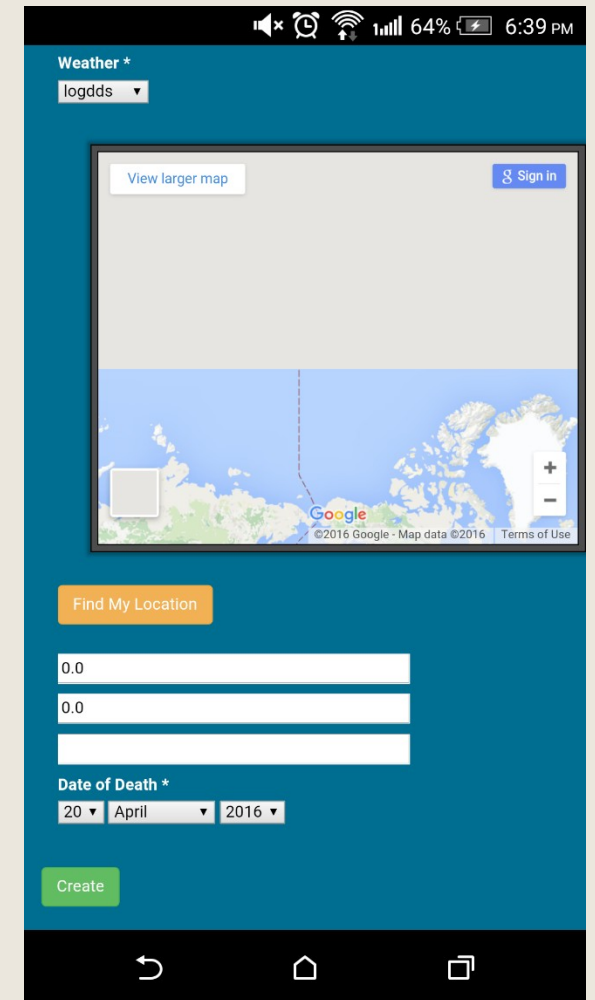
- No admin approval for signing up as expert
- Expert can edit entire report
- No moderation over user reports can lead to breach of privacy of individuals
- Showing location in database puts users at risk

System Bugs

- User can edit weather and environment fields; thus resulting in duplicate entries
- User can submit reports without filling data in mandatory fields
- Under location mandatory text field text can accept digits
- User can enter futuristic dates
- User can enter negative speeds
- User can submit reports with attachments of non-image type file extensions
- User can delete reports even after logging out; by using the back button in the browser
- User images get deleted upon expert validation
- The admin view link is broken
- The delete link is broken

Recommendations

- The user sign-up forms must be made consistent with the system design
- The user forms must be made interactive; for environments like forests there is no need for speed limit
- The data insertion in database should occur at the top
- A better color scheme should be selected
- All fields must be labeled
- Experts must have limited access to user reports
- Admin moderation should be applied to user entries
- Restricted user details should be shown in the table view
- The UI should be optimized as per devices



Thank You!