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.

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Department</th>
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<tbody>
<tr>
<td>Eric Vasey</td>
<td>Team Leader</td>
<td>Computer Science</td>
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<tr>
<td>Rebecca Driver</td>
<td>Team Leader</td>
<td>Humanities</td>
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<td>Caleb Chapman</td>
<td>Team Member</td>
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<td>Jonathan Faron</td>
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<td>Ryan Fenton-Garcia</td>
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<td>Bradley Ross</td>
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<td>Kuber Dutt Sharma</td>
<td>Consultant</td>
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<tr>
<td>Haitang Duan</td>
<td>Consultant</td>
<td>Computer Science</td>
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Quick Figures

Pre-Test Questions

- Computer Usage
- Smartphone Usage
Quick Figures

Post-Test Ratings

<table>
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<tr>
<th>Column1</th>
<th>User 2</th>
<th>User 3</th>
<th>User 4</th>
<th>User 5</th>
<th>User 6</th>
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Destop Version
Smartphone Version
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 submits 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!