

# Usability Test Result of Volcano Monitoring App

Ridwan Ahmed Khan  
CS5760

Instructor : Robert Pastel

# Application & Team Members

- An application for monitoring Pacaya Volcano activity monitoring by the visiting tourists and tour guides.
- Team Members
  - UX Experts: Jaclyn Barnes and Ridwan Ahmed Khan
  - Developers:
    - Johnathen Booth
    - Alexis Kuprel
    - Dalton Shoebridge
    - Micah Kempf
    - Dillon Mavroulis
    - Steven Tracey
    - Mathonwy DeanHall

# Test Process

- Each participant started with signing consent form and some pre test questions and then participated in the six test scenarios. After that the testing ended with each participant answering some post test questions.
- Test observers took notes and observe the participant for various qualitative and quantitative measurement.
- Testing scenarios include navigation of the application, uploading photos, filling out different forms and login into the application.

# Test Data

Based on total 5 participants-

- Qualitative data:
  - User's facial expression : Neutral to Curious.
  - User's comments : Some commented for help.
  - User's attention in the application: Every user was attentive.
  - User's comfort: Every user was comfortable.
- Quantitative data:
  - Time needed to finish a task: quick (10-30 seconds)
  - Doing errors (very few)
  - Ask for help (Sometimes)

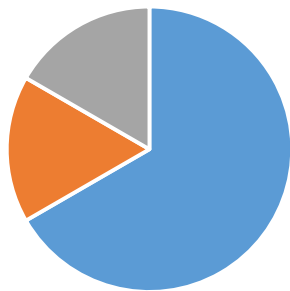
# Test Result Summary

- Users found the application easy to use
- The application is in good state in terms of functionality.
- The performance of the application was good in term of speed.
- Users found the application easy to navigate.
- Users were not much interested in reading about the introduction.
- Forms with few fields were appreciated.
- Picture is not shown in form pages after selection which confused users.

# Pre Usability Test Questions Result

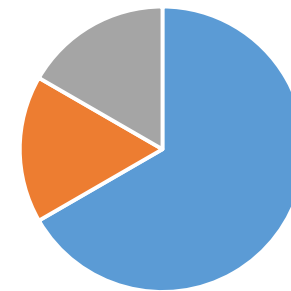
- Years of smartphone use - 2 – 6 years
- Interest in testing the android application – 60% Agree, 20% Neutral and 20% Strongly Agree
- Interest in providing voluntary information - 60% Agree, 20% Neutral and 20% Strongly Agree

Interest in testing the application



■ Agree ■ Neutral ■ Strongly Agree ■

Interest in providing voluntary info

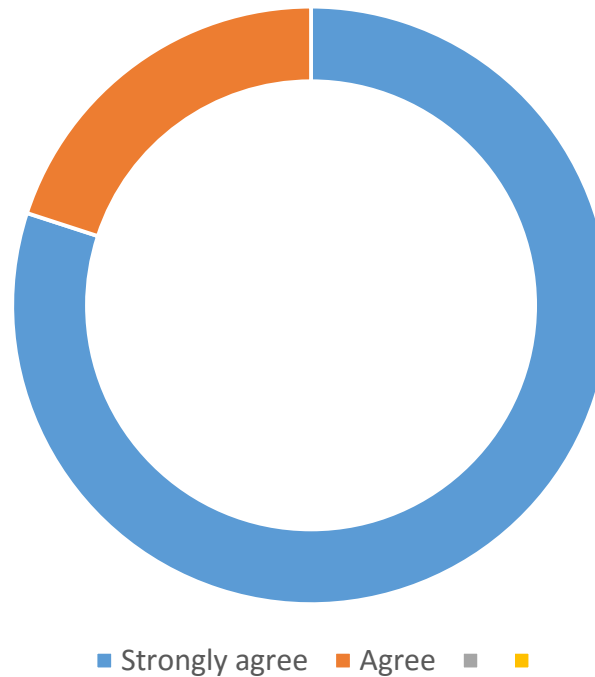


■ Agree ■ Neutral ■ Strongly agree ■ 4th Qtr

# Post Usability Test Questions Result -1

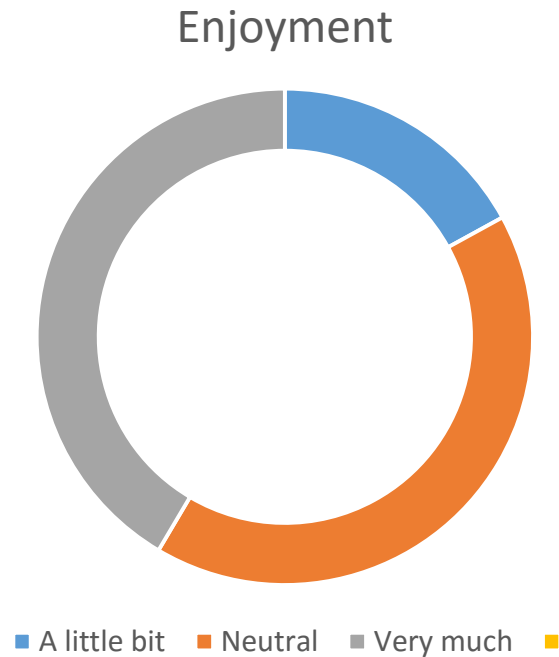
- Ease of application to perform task – 80% Strongly Agree and 20% Agree

Ease in performing task in application



# Post Usability Test Questions Result -2

- Enjoyment after using the application - 60% A little bit, 20% Neutral and 20% Very much

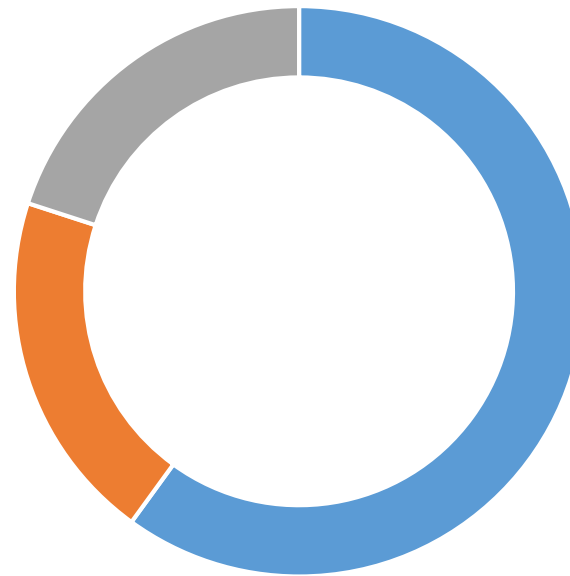




# Post Usability Test Questions Result -3

- Repetitive use of the application - 60% Agree, 20% Neutral and 20% Strongly Agree

Repetitive use of application



■ Agree ■ 2nd Qtr ■ Strongly Agree ■

# Summary of bugs

- Bug ID : 1
  - **Description:** User tried to go back to home page after submitting a form but the menu is not working.
  - **Severity:** Moderate.
  - Only one user found this bug.

# Other comments or feedback

- “Nice Color”
- “Straight forward application”
- “Useful if added with few more features”
- “Very simple”

# Recommendations

- Fix the menu functionality after submitting a form
- Once logged in, provide an option for logout.
- Language support
- Home page “create observation” button relocation.
- Color of plume correction
- When the keyboard pops for text entry, push the current field up so that user can see what is being typed.
- Show the picture after selection.
- Bigger radio button in explosion form.

# Thanks

- More will be in Usability Test Report
- Any question, comment or feedback?