

IT351 HUMAN COMPUTER INTERACTION

Assignment-5: Forest Tree Census

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Problem: Design and create two different user interfaces for entering field observation data for the forest tree census application: Date and time of observation, tree-ID, tree name, tree type, GPS location and measurements need to be entered to the application. Critique on both user interfaces taking into account the design and general UI principles.

Introduction:

Forest Tree Census is a periodic exercise conducted by the Forest Department at the District, State and National Levels. The aim to conduct the census is to get an idea about the vegetation of that particular area which would be further helpful in policy making and welfare schemes decisions. The major points recorded in the Forest Tree census are the height, and their location. Also the date and time of the survey.

HCI Principles and Guidelines used:

- Users can perform the same tasks in the usual way.
- Wide range of the user-design process considered for all types of users.
- Control is given to the user.
- Proper error prevention methods have been used.
- Application is Flexible and efficient to use.
- Relevancy, simplicity, minimum number of labels and uncluttered graphics are used.
- Users can easily recognize options in the system rather than recall them.
- User control and freedom.
- Support of undo and redo operations.
- Overall, the interface is very simple and easy to use.

Screenshots of the Web App:

Browser address bar: rsharma/IT351-HCI-Assignment-and-Project/Assignment-5/Web%20Application/index.html

Forest Tree Census

Observation Details:

Date :
18/01/2022

Time :
12:30 PM

Tree ID

Tree Name

Tree Type

Location
[GET CURRENT LOCATION](#)

Measurement Unit :
☐ cm ☐ m

Height

[SUBMIT](#)

Screenshots of the Mobile App:

1:53 ForestTreeCensus

Forest Tree Census

Observation Details

2/1/2022

10:0

Tree ID

Tree Name

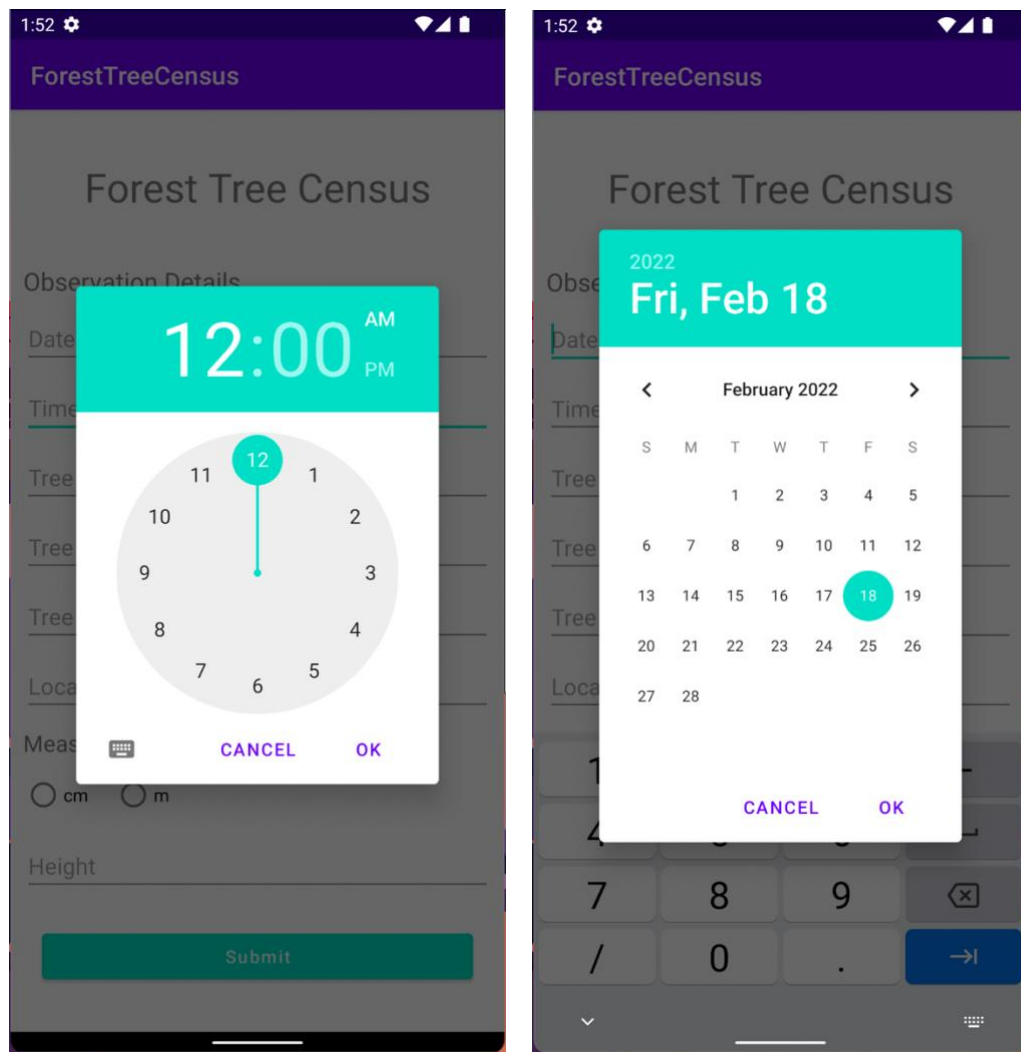
Tree Type

Location

Measurement Unit :
☒ cm ☐ m

12

[Submit](#)



Analysis of Web App v/s Mobile App:

Web App:

- UI of selecting Date and Time is not very pleasant looking.
- Undo and redo options are difficult
- Location feature sometimes is not supported by some browsers
- Users take more time to fill in the census form
- Integration with other services is difficult
- Scrolling takes considerable time

Mobile App:

- The UI for selection of date and time looks aesthetic and is easy to use
- Undo and Redo Options are easy
- Location feature is always supported by Android Devices
- Users take comparatively lesser time to fill the form
- Integration with other services is easy
- Scrolling is quick
- Provides the best experience to user

