

Group Project

Phase Two

Tasks

- Horizontal and vertical prototype implementation
- Usability testing

Horizontal and vertical prototyping

- Develop horizontal prototype implementing all primary high-level screens
- Identify four key tasks your software will support
 - At least two should be of some complexity
- Extend your prototype to enable testing of how these tasks would be accomplished (vertical prototyping)
- Non-supported actions may default to “Under development” message or screen

Usability testing

- You will test the four key tasks your prototype supports
- Conduct usability testing with two users for each group member
- With two of those users you will conduct pilot testing
- The remaining users will participate in the actual usability test

Usability testing

- Materials
 - Screening questionnaire to select participants
 - Pre-test demographic information form
 - Age, gender, education, computer use, use of technologies similar to yours
 - Post-test user satisfaction form
 - Script you will read during usability testing
 - Introduces usability testing
 - Asks participant to fill out demographic information form
 - Introduces tasks
 - Asks them to fill out post-test satisfaction form

Usability testing

- Selecting participants
 - You should aim to have participants of various skill levels, ages, and experience with computers and technology similar to the one you are developing
- Develop screening questionnaire used to decide if you will include someone as a participant

Usability testing - pilot

- Select two participants (with different demographics) to participate in a pilot of your usability test
- Conduct the test as if it were real
- See what worked well and what did not work well
- Modify testing materials as appropriate



Usability testing

- Read from script when communicating with participants
 - So all participants hear the same instructions
- Tell participants what they will be doing
- Tell them you are not testing them, they are testing the software
- Ask them to fill out pre-test demographic information form



Usability testing

- Explain to participants the concept of thinking aloud
- Ask them to think aloud during the testing
- Present each task and ask them to complete it
- Keep track of time to complete each task
- After completing each task, ask participants how long they think it took



Usability testing

- After completing all tasks, ask participants to complete post-test satisfaction questionnaire
- Ask users about any particularly low scores in this questionnaire
- Ask users about any points at which you noticed or they told you about having difficulty while completing tasks



Deliverables

- Section 1- Prototype description
 - Describe your prototype
 - Explain how you decided on what features to support in this prototype
 - Show screenshots for each screen
 - Walk reader through how the prototype works



Deliverables

- Section 2- Usability test
 - Method
 - Participants
 - How did you select them?
 - Provide summary of collected demographic information
 - Procedure
 - Where were the tests conducted?
 - How did the tests proceed?
 - What tasks did the participants complete?



Deliverables

- Section 2- Usability test
 - Results
 - Describe usability issues you found
 - Provide data on actual and estimated completion times for each task
 - Summarize results of satisfaction questionnaire
 - Discussion
 - Possible solutions to usability issues
 - Meaning of other results



Deliverables

- Appendix
 - Screening questionnaire
 - Pre-test demographic information form
 - Post-test user satisfaction form
 - Usability test script

