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Assignment 3c: Heuristic Evaluations

Issues identified from heuristic evaluations:

Before	After	Incident
	K New Gent Entre Gent Maree Entre Gent End Date D O 2017 ED And Gent Conserved Grants Conserved Grants	Matching system to the real world (Severity 3) Confusing titles make it difficult to identify the purpose of certain tasks. In our heuristic evaluations, one group expressed confusion with the label "Enter subject" for the goal creation screen, as the relation of subjects to goals was not immediately clear. The naming of the goal violates the heuristic of matching the system to the real world, as the labeling is not instantly understandable. It would likely be more informative to label the text box "Enter goal name" to give a clearer idea of what purpose the text box served. We have updated the title of the text box accordingly.



	front page, allowing for participants to switch between recent books.

First Usability Test

Our first usability test was conducted with a male, 20 years old, pursuing an HCI degree. We performed the usability test inside of the technology exploration lab of Mary Gates Hall. For the usability study, we compiled a list of tasks, which we asked the participant to perform from our application. We had one individual read the script and tasks to the participant, while another was responsible for performing the necessary "wizard of oz" tasks. The additional two team members took notes during the process. The participant was asked to think aloud while walking through the tasks, which included:

- Syncing the bookmark to the application
- Skipping adding a book so they could explore the application
- Adding a new book
- Check upon an existing goal
- Check books that have been read
- Correct information about a mistimed reading session

We chose environment of Mary Gates Hall because it was one in which the participant felt at ease, and we were able to remain relatively undisturbed during the work.

A note about the process itself: we discovered that some of the tasks did not make sense in the order in which they were presented (such as asking the participant to state what books they were reading, when the interface did not show any, and the task to add a book was introduced later). For that reason, this will be a primary point of work for the next set of usability tests, to make sure that our prototype and the ordering of tasks make sense.

Issues identified from usability study:

Before	After	Incident
	N/A	Simple Bookmark Interface A positive point in going through the usability test with our participant was the bookmark interface. For the participant, he noted that it was really simple and straightforward. He also noted that it took a significant portion of the work out of trying to record the time spent reading.
(No page existed for this previously)	 Settings John View Profik Auto Do Not Disturb Reading Color Reading Color Reading Color Reading Color Sync New Backmark 	Settings Page (Severity 3) A point of concern for our participant was in how they would connect to their bookmark, or how it is that they might go about connecting to a brand new wearable if they were to lose the old one. For this change, we focused on introducing a settings page, with very little in terms of added functionality, but made the necessary features available when necessary.



Current Prototype



Screen	Step Description
BookWurm Day Week May Week Marth Week Week Marth Week Marth Week We	On the home screen, the participant can see their reading habits thus far as well as the books in their library thus far. The participant clicks "Library".

Task 1: Add a book and track progress







Read Edit Read Edit Harry Potter J.K. Rowling 702 Pages 22 Pages 22 27:16 Time Library Reading	At the end of the reading session, when the bookmark is taken off, the participant is taken back to the book page and shown stats about their reading session. The user clicks the dashboard button to return to the home screen.
BookWurm Day Day Neek Marth Teresty Reading: Harry New Porter New Porter <td>The user has completed the task and finds that the graph displayed on the dashboard has been updated with information about their most current reading session.</td>	The user has completed the task and finds that the graph displayed on the dashboard has been updated with information about their most current reading session.

Screen	Step Description
BookWurm Day Week Marth Nes Lis Lis	On the dashboard of the home screen, the participant clicks "Goals".

Task 2: Check progress of an existing goal

Collection Collection Collection Harry Potter Books H12 Books H12 Books H12 Books Progress Collection Mathematics 3 92% Books Progress Collection Mathematics 3 92% Books Progress Collection Mathematics 3 92% Books Progress Collection Mathematics Collection Mathematics Collection Mathematics Collection Mathematics Collection Collection Mathematics Collection Collection Mathematics Collection Collectio	On the "Reading Goals" screen, the participant clicks on the "Economics" goal to check their progress thus far.
Cal End Date: 21/24/13 (10 days) Cast End Date: 21/24/13 (10 days)	Upon reaching the "Economics" goal page, the participant can see their desired end date, as well as the books associated with the goal. In order to check their progress on the book "The Black Swan", the participant clicks the progress button next to the title of the book they desire to confirm the progress of.



Plan for future usability tests

For the remaining usability tests, we will be revising our existing script for participants so that the tasks are clearer, and follow along better with the variations of the prototype (such as not showing any books currently being added). For example, we will try to limit ourselves to directing the participant with more explicit goals, such as "Add a new book to read", or "track reading progress" rather than asking the participant to explore a feature.

Additionally, if possible we would like to divide up notetaking in a way that we can record all that is said rather than summarizing the statements of the participant. This way we can be more confident that our data has not been altered by any personal bias. We also think it would be useful if we provided relevant props for our usability study, such as books that matched the books listed on the prototype, in order to make the prototype more believable. We also hope to possibly expand the demographic of our usability test to include a wider variety of participants, potentially by changing the location at which we conduct them.

Some goals that we have for future usability tests is to make the purpose of each page more immediately clear to the participant. For example, our participant for this usability test did not immediately understand the purpose of the "goals" page. We would like to explore how to make the purpose and use of pages like these more clear upon their introduction, in addition to the changes we have made so far, in case further issues arise. We will likely keep the same dynamic we used for conducting the initial usability test going forward with the same group members playing the role of facilitator, "wizard of oz", and notetakers.