



LearnIT User Testing Phase 2

☰ Type	Planning Research
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Overview

- Ensure that our application lives up to its objectives of solving the problems that it has stated.
- Ensure that the application serves the needs of its users based on its main feature offering.
- Measure the real-world performance of our pipeline and frontend design implementation based on user feedback.
- Make sure that users get enough time to test the actual product with little to no mishaps.
- Ensure that their actions are well guided to improve testing effectivity and relevance.
- Be able to measure the different features being used, and the user behavior in our application for further analysis later on.
- Be able to get meaningful feedback on the usability of the application and its effectivity in resolving the problem at hand

Participant Demographic

- UPLB Students
- Currently Enrolled as Undergraduates
- Can come from different colleges under UPLB
- Has access to digital devices such as:
 - Smartphones
 - Laptops
 - Tablets
 - Personal Computers
- Has constant internet access on and off campus

Process

- Participants are expected to use at least 3 to 5 documents in the application to gather enough results and experience for using the application.
- Participants are expected to use the application with the presence of an internet connection, as the application is web-based.
- Participants are then instructed to answer the Extended-PSSUQ to wrap up the user testing, and to let the researchers analyze the data for the results and discussions.

Document Specifications

- **PDF Format**
- **Non-scanned** document (must be originally formatted in PDF)
- Ideally **properly formatted** and **structured**
- Contains at least **2,000 words** or more
- Contains at least **3 pages** or more
- These documents includes, but not limited to the following categories:
 - Educational Materials
 - Research Papers
 - Case Studies

- Book Reviews
- Editorials
- Notes
- Modules
- Legal Documents
- Creative Writing

⚠ Documents such as those containing lots of **mathematical equations, formulas and symbols**, along with **financial reports, medical reports**, and **non-English** documents, may not be best suited for this application as the model itself may have a hard time processing these different complex elements and may result in either errors, or very inaccurate outputs.

Application Usage Instructions

1. Login to Website

- a. Participants are provided with their own credentials to the application
- b. The application is secured via JWT implementation

2. Fill up Profile Details

- a. Although participants are interviewed and briefed in advance, they must input their relevant information through the application to ensure accuracy of information.

3. Prepare Documents to be Used

- a. Participants will be first asked to prepare a set of documents that they wish to use with the app
- b. The researcher will then confirm if these documents are within specifications, and is compatible for use with the application

4. Uploading of Documents

- a. Documents must be uploaded first to get an initial PDF to Text processing outcome.
- b. If the text output isn't as what was expected, the participants may choose to select another PDF processing option available to them, until they get the desired result.
 - i. These PDF Processing options (**PyPDFLoader**, **PyPDFium2Loader**, **PyMuPDFLoader**) is needed due to the nature of different PDFs that may play to the strengths of different PDF Loaders.
- c. If they encounter any problems, they should contact the researcher immediately

5. Processing of Uploaded Documents

- a. At this point, they are now ready to use the main feature of the application
- b. After pressing the button, participants are expected to wait before the pipeline is finished processing the whole text of the document, and then returns it as a display to the user.
- c. Processing can take some time, but once it is done processing, it is saved on the server so when the participant brings up the document again, there is no re-processing needed.

6. Reading the Processed Text

- a. Participants are now expected to read this text, as opposed to the original document, for their reading activities.

7. Repeat steps 4 to 6 for all other remaining documents to be used by participant

8. Answer the Extended-PSSUQ

The Extended Post-Study System Usability Questionnaire

The Extended Post Study System Usability Questionnaire		Strongly agree								Strongly disagree	
			1	2	3	4	5	6	7		NA
1	Overall, I am satisfied with how easy it is to use this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
2	It was simple to use this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
3	I was able to complete the tasks and scenarios quickly using this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
4	I felt comfortable using this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
5	It was easy to learn to use this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
6	I believe I could become productive quickly using this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
7	The system gave error messages that clearly told me how to fix problems.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
8	Whenever I made a mistake using the system, I could recover easily and quickly.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
9	The information (such as online help, on-screen messages, and other documentation) provided with this system was clear.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
10	It was easy to find the information I needed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
11	The information was effective in helping me complete the tasks and scenarios.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
12	The organization of information on the system screens was clear.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
13	The interface of this system was pleasant.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
14	I liked using the interface of this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
15	This system has all the functions and capabilities I expect it to have.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
16	Overall, I am satisfied with this system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
17	I could intuitively use the system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
18	Using the system motivates me to solve my tasks.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
19	I had spontaneous idea for other use cases of the system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
20	I prefer the system to other similar systems.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
21	The color scheme of this system is beautiful.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
22	The audio notification of the system is cool.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
23	The system resolves the problems creatively.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
24	The system integrated with other system inventively.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
25	The system layout is stylish.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
26	The system solves the problem in a novel way.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
27	The system is represented in appealing way.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
28	I can name an innovative feature of the system.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

Based off of the paper: **Analysis of Current Usability and User Experience Questionnaires and Creating an Optimized Usability Questionnaire**; this questionnaire has been deemed fit for use for this research as it already covers the developmental aspects of the design and organization of information, as well as the effectivity of the feature provided to its users.

The participants will be answering this questionnaire once they have used up all of their chosen documents and have used the application with the documents in mind, and have finished reading with it.

This *can* be done asynchronously, without the researcher monitoring the participant, but it would be best for the researcher to interview the participant one last time before concluding the study to get some more personal insights from the participants themselves.

References

- S. Valadi, "Analysis of current usability and user experience questionnaires and creating an optimized usability questionnaire," 2020. [Online]. Available: <https://api.semanticscholar.org/CorpusID:230100770>