P1)

Main Functionalities:

- Assignments details and grades.
- Group chats for students in each course
- Ability to check college mail
- Adding funds to one card.
- Ability to sync College calendar with phone calendar

P2)

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Consent Form

The application [--APPLICATION NAME--] is being developed as part of the coursework for course INFO 31179 at Sheridan College. Participants in the usability evaluation of the application provide data that is used to evaluate and modify the interface of the application. Data will be collected by interview, observation and questionnaire.

Participation in this experiment is voluntary. Participants may withdraw themselves and their data at any time without fear of consequences.

Participant anonymity will be provided by the separate storage of names from data. Data will only be identified by participant number. No identifying information about the participants will be available to anyone except the student researchers and their supervisors/teaching staff.

I hereby acknowledge that I have been given an opportunity to ask questions about the nature of the experiment and my participation in it. I give my consent to have data collected on my behavior and opinions in relation to the usability evaluation.

[---- The Text below should be used only if you plan to record the Participant   ----]
[---- Remove it if you just plan to make notes during the evaluation   ----]
I also give permission for images/video of me using the application to be used in presentations or publications as long as I am not personally identifiable in the images/video. I understand I may withdraw my permission at any time.

Name: Omar Shehab

Participant Number: 1

Date: 21 / 03 / 2022

Signature: Omar Shehab

Witness name: Mohamed Ahmed

Witness signature: Mohamed Ahmed

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Name: Adham Yakout

Participant Number: 2

Date: 21 / 03 / 2022

Signature: Adham Yakout

Witness name: Mohamed Ahmed

Witness signature: Mohamed Ahmed

User Testing: Task Script

I am a student at Sheridan College. For one of our courses, I am working on the development of a Sheridan College application.

I have developed a prototype which simulates some aspects of the final system. What you will see is not a working system. Only pages relevant to the tasks I will ask you to complete have been mocked up. In addition, some links and functionality will not work. In order evaluate the prototype and concept, I would like you to interact with the prototype and then give me your honest opinions. Any problems you find will help me improve the prototype.

The testing session will consist of two parts:

1. Completion of Nine tasks using the prototype, where you will be asked to verbalize your thoughts and opinions as you use the prototype
2. A brief interview to find out your opinions

I will run the session while taking notes. During the session, you are encouraged to ask questions but I may not be able to respond to them at that time. I will be able to answer all questions at the end of the session. The session should take about 20-30 minutes. You can end the testing at any point in the session if you feel uncomfortable.

Do you have any questions?

If you feel comfortable taking part in this testing session, please sign the consent form. [Make sure the participants sign the consent form before beginning the session]

Tasks

Using the prototype, you will be asked to perform three tasks. While you are performing the tasks, please try to say your thoughts **aloud**. If you become quiet, I may ask questions to find out what you are thinking or remind you to speak your thoughts aloud.

Task 1
Log In

Task 2
Check out your Assignment 3 course grade and details.

Task 3
Check out the group chat

Task 4
Add money to your one Card

Task 5
Check out the mail

Task 6
Check Profile

Task 7
Turn on notification in settings

Task 8
Check Calendar

Task 9
Turn on notification in settings

Task 10
Sign Out

[After completion of each task, ask the following question.]

On a scale of 1-5, how difficult was this task to complete? (1 being the easiest)

Semi-structured Interview Questions (Post-test questions)

Now I would like to ask you a few questions to find out what you think of the prototype. [The following questions should be asked in each session. Other questions may be improvised to solicit further information from the participant.]

1. Was it easy to navigate through the App?
2. Did you notice any features that you like?
3. Did you notice any features that you dislike?
4. Do you have any suggestions for improvement?

P3)

Tasks	Avg Time (Seconds)	Avg # Of Clicks	Avg Difficulty
Task 1	3.00	3.00	1.00
Task 2	4.24	3.00	1.00
Task 3	3.74	3.00	1.00
Task 4	4.24	4.00	1.00
Task 5	8.00	3.00	1.00
Task 6	3.32	2.00	1.00
Task 7	3.32	3.00	1.00
Task 8	3.74	3.00	1.00
Task 9	2.65	2.00	1.00
Average of Completed Tasks	6.02	3.00	1.00

*For each task I calculated the average of both trials. The difficulty is ranged from 1 to 5 with1 as easy and 5 as very difficult.

I have decided to use the average time per task and the average number of clicks to perform a task because as a student myself I understand that students tend to rush a lot of their work because of the world load they have during a semester which leads them to want to access the info and perform the tasks they need as fast as possible. I think that the time and number of clicks in an app are the two metrics that decide how fast the user can perform a task in that app and from the time spent on each task we can conclude whether the application provides clear and easy navigation to it or not.

I have decided to use geometric mean to calculate the average time and clicks it took for each task to be completed successfully between both trials, as recommended by the article "Usability Metrics" because we only have two trials and If one of the trials had a way larger number than the other it could make the average not accurate. From the table

above we can see that in both trials the users thought that the app was very easy to navigate through and with the help of common icons which helped them recognise what each button does and ultimately made it easier for them to be able to execute each task with ease. The average number of clicks per task was 3 which in my opinion is pretty good for students who want to be able to locate what they want with as few clicks as possible, which made the time that gets taken to execute a task to be very short with an average of 5.68 seconds and 3 clicks as an average which gives us around 1.9 seconds per click which is a very good ratio in my opinion for the users who just started using the app, I think if we get the same users to try on the app daily I think this number would a lot lower because they would get used to locating everything they need.