Sri Lanka Institute of Information Technology



User Experience Engineering - SE3050 Lab sheet 4 – User Research Plan

B.Sc. (Hons) in Information Technology

User Research Plan

Group Details

Group number: 2021S2_REG_WD_11
Group name: Code Rebels

IT -Number	Name
IT19127538	A.R.W.M.B.W.D. B. Jayawardana
IT19037998	A. V. Joachim
IT19513188	K. A. Yathushan
IT19062266	S. W. R. S. I. Rathnayake

Introduction

People's Wave is an online mobile banking application where customers can track their finances which includes checking account balance, transaction history. Customers can also make payments via People's Wave, can make online cash transactions and also current account holders can check their cheque details. The purpose of this research is to identify user behaviors, goals, motivations, weaknesses and needs of the users. By analyzing those results, it is able to create more user friendly and attractive user interfaces.

Test Objectives

- Testing navigational elements.
- Testing the size, position, width, height of the elements.
- Testing of the error messages that are getting displayed.
- Testing of the spelling.
- Testing whether the interface is attractive or not.
- The user must not get frustrated while using the system interface.

Methodology

This user research will be conducted by using digital interviews. There will be two selected clients going to participate to the interviews. Since the global pandemic situation interviews will be conducted via ZOOM and MS Teams environments. This interview will be a structured interview.

Interviewing

- 1. Initially giving a welcome and brief introduction about the client.
- 2. As the first section of the interview, the interviewer is asking about the login and forgot password related questions.
- 3. As the next part of the interview, the second interviewer is asking questions related to the interfaces and navigation.
- 4. After that the third interviewer is asking the client whether he/she uses bill payment or device management option.
- 5. As the final part of the interview 1, the fourth interviewer is asking about People's bank to People's bank fund transfer related questions.
- 6. Before winding up the interview giving an appreciation to the client.

Interview 1							
Name - (IT Number)	Questions						
S. W. R. S. I. Rathnayake - (IT19062266)	 Are you a user of this application? Are you logged in now? Have you ever tried forgot password option? 						
A. R. W. M. B. W. D. B. Jayawardana – (IT19127538)	 What do you think about the interfaces, are you satisfied? Is it easy to navigate between pages? What are your thoughts about that? 						
K. A. Yathushan – (IT19513188)	 Have you tried any bill payments using this app? Have you used device management option? 						
A. V. Joachim – (IT19037998)	 Which task do you carry out the most and what is the reason behind it? Which option do you use the most, Own account transfer or One time transfer to a third-party unregistered account or Fund transfer to a registered account? When making a One-time transaction have you ever input an incorrect account number and made a successful transaction? Have you faced any system errors when trying to make a One-time transaction? When making a One-time transaction, have you ever disagreed or dissatisfied to provide any details of yours? When making a One-time account transaction do you think that your transaction is safe through the People's Wave? 						

- 1. Initially giving a welcome and brief introduction about the client.
- 2. As the first element the interviewer is asking about the login related questions.
- 3. As the second section of the interview, the interviewer is asking questions related to Interbank fund transfer option.
- 4. Afterwards the next interviewer is asking about the Useability related questions.
- 5. As the interview, the fourth interviewer is asking questions related to the bill payment option and its flaws and usage.
- 6. Before winding up the interview giving an appreciation to the client.

Interview 2							
Name - (IT Number)	Questions						
S. W. R. S. I. Rathnayake - (IT19062266)	 Are you a user of this application? Have you logged in now? 						
A. R. W. M. B. W. D. B. Jayawardana – (IT19127538)	 Do you use the Inter-Bank Transaction option on daily basis? How often do you use this option? Can you identify the "Inter Bank Fund Transfer" option easily in "Transfer Services" menu? And are you selecting options by reading those or keep memorizing the place? In "Inter Bank Fund Transfer" menu which option you use more often? Do you use manage favourite beneficiary option? If you use how often do you use that option? Have you ever input wrong details while adding new Favorite beneficiary? Can you rate the following from 1 to 10 as a function, as a number of steps and as an interface? One time fund transfer Favourite transfer Manage favourite beneficiary 						
A. V. Joachim – (IT19037998)	 Do you think you can handle the whole function using one hand? What do you think about the interfaces, are you satisfied? 						
K. A. Yathushan – (IT19513188)	 Do you use bill payment option for paying any kind of bills? if so, what kind of bills do you pay? Have you used "manage favorite bill" option? and are you satisfied with it? Have you ever paid a bill by scheduling it? and what is your opinion about it? How often do you use bill payment option? Are there any flaws in people's wave bill payment option? How do you rate the bill payments option from 1 to 10 based on the importance & user experience? 						

Video recording

The meeting will be scheduled via MS Teams environment with the presence of all four members and each member presented their individual functionalities along with respective mobile UI's. Each member briefly described their respective user flows and their crud functionalities.

1. First member is presenting functionalities of user management.

Briefly describes about,

- Forgot password
- Registration
- Login/Log out
- Main menu
- Navigational drawer
- 2. Second member is briefly describing Interbank fund transfer option.
 - One time fund transfer
 - Favorite beneficiary transfer
 - Add new beneficiary
 - Update beneficiary
 - Delete beneficiary
- 3. Next member is describing about fund transfer options and cheque services related options.
 - One time transfer
 - Manage favorite beneficiary
 - Add new beneficiary
 - Edit beneficiary
 - Delete beneficiary
 - Favorite transfer
 - Cheque services
- 4. Last member is describing about Bill payment option and device management options.
 - Onetime bill payment
 - Bill history
 - Mange favorite bill
 - Add new favorite
 - Device management

Questionnaire

* Required

Survey on People's Wave Mobile Banking Application

The purpose of this survey is to collect comprehensive feedback on Peoples Bank's Peoples Wave Mobile Application. The collected data will be used only for educational statistical research and analysis. Your response will be anonymous. Please be kind enough to fill this form. Your contribution is highly appreciated in this educational survey.

Age *

18-25

26-35

36-50

Above 50

Occupation *

Student

Private Employee

Goverment Employee

Self Employee

Business

Unemployed

Other:

Monthly Income *								
O Up to 10000								
O 10000 - 25000								
25000 - 50000								
50000 - 100000								
Above 100000								
How long do you use this People's Wave application? *								
Less than 6 months								
6 months - 1 year								
1 - 2 years								
Above 2 years								
Why do you use People's Wave application *								
Reducing the time for transaction								
C Easy to use								
Cost effectiveness								
○ Technology savvy								

Which option do you use more frequently *						
People's bank to People's bank transfer						
Inter bank transfer						
Bill Payments						
Cheque services						
Other:						
Do you think the application is secure *						
O Very secure						
Some what secure						
Not secure						
What are your thoughts about the User Interfaces *						
○ Excellent						
Good						
○ Average						
Poor						

How often do you use the application *								
O Daily								
○ Weekly								
Monthly								
Do you use favorite beneficiary or favorite bill options *								
Only favorite beneficiary								
Only favorite bill								
Both								
None								
Do you use this application in multiple devices *								
○ Yes								
○ No								
Rate the Login, Registration and Forgot password options *								
1 2 3 4 5 6 7 8 9 10								
Poor O O O O O Excellent								

Rate the	e Peopl	e's ba	nk to	People	e's ban	ık tran	sactio	n prod	cess		
	1	2	3	4	5	6	7	8	9	10	
Poor	0	0	0	0	0	0	0	0	0	0	Excellent
Rate the	e Inter I	bank t	ransa	ction p	oroces	SS					
	1	2	3	4	5	6	7	8	9	10	
Poor	0	0	0	0	0	0	0	0	0	0	Excellent
Rate the	e paym	ent se	ervices	S							
	1	2	3	4	5	6	7	8	9	10	
Poor	0	0	0	0	0	0	0	0	0	0	Excellent
Rate the	e cheqi	ue ser	vices								
	1	2	3	4	5	6	7	8	9	10	
Poor	0	0	0	0	0	0	0	0	0	0	Excellent
ne ove	rall ap	plica	tion *	*							
1	2	3	3	4	5	6	7	8	ç	9	10
С) () ()	0	0	0	0	C) ()	O Exceller

What are the faults in the application (Not required)

Your answer

Submit

Page **11** of **6**

Participant Profiles

Name	Demography	Location, Date and Time
Achintha Devinda	He is an undergraduate of University of Colombo. He is currently working as an intern at Mass Holdings. He is living in Mawanella He has been using people's Wave banking application around two years.	Hemmathagama,
Sachini Jayasinghe	She is a business person. She is running her own business of beauty cosmetics. She is currently living in Digana. She has been using people's Wave banking application since 2020.	Location: - No 55 Digana, Rajawella. Date: - 2021/08/20 Time: - 8.50 pm

No.	Task Instruction	Target	Probes
01	Sign into the mobile application	Test the user experience on the sign in process.	
	Check the forgot password	Checking the proceeding time of the forgot password functionality	
	Navigate between interfaces	Test the usability of the interfaces	
	Enter the invalid details to the input fields and see the response	_	
02	Sign into the application	Test the user experience on the sign in process.	
	Doing a particular process using one hand	Check the usability of the application	
	Read the headings of the options	Check the user friendliness	
	Asking to use the device management option	Checking the experience of the user	

Plan for data analysis

Interviews

Digital Video

https://drive.google.com/file/d/1bqls4mNU8EIYGNbOaBTRsnj00FbWH9qZ/view?usp=sharing

- 1. Are you a user of this application?
 - :Yes
- 2. Are you logged in now?
 - :Yes, (after looking at the phone) Oh! it seems the account is logged out right now, because the session is expired. OK, let me login to the application now. Looks like I entered a wrong username, but it hasn't validated. It seems a problem for me. OK, please let me try again. OK, I'm logged in
- 3. Have you ever tried forgot password option?
 - :Yes, it also not validating the username. So, I have to re-enter the username with password again OK, that's all for my part. Thank you, sir. now others will ask their questions.
- 4. Sir what do you think about the interfaces, are you satisfied?
 - :No! of cause not. Comparing to the other mobile banking application this application has some interfaces that are less attractive.
- 5. Sir, is it easy to navigate between pages? What are your thoughts about that?
 - : Yeah! well I must tell that it is not easy to navigate but it also not difficult. For some functions they have properly organized the navigations. But in some other functions it takes too much time to verify.
- 6. Have you tried any bill payments using this app.
 - : No, I haven't
- 7. Sir, in this app which task do you carry out the most and What is the reason behind it? : Well, as you already know, that I'm doing an internship, so I transfer some money to my parent's account.
- 8. Which option do you use the most, Own account transfer or One time transfer to a third-party unregistered account or Fund transfer to a registered account?
 - : Mostly I used the One-time fund transfer.
- 9. When making a One-time transaction have you ever input an incorrect account number and made a successful transaction?
 - : Yeah! Well, I remember one such situation where I input an incorrect receiver's account number which in result displayed an error related to the mobile number rather displaying an account number error.
- 10. Have you faced any system errors when trying to make a One-time transaction?
 - : Yes, of cause, it has happened to me several times as I remember when I was trying to make several transactions continuously it suddenly displayed an error message where it didn't allow me to carry out the process further.
- 11. When making a One-time transaction, have you ever disagreed or dissatisfied to provide any details of yours?

- : I don't know about the others but It's OK for me.
- 12. When making a One-time account transaction do you think that your transaction is safe through the People's Wave?
 - : I trust the bank. It's their responsibility to keep my transaction safe.

- 1. Are you a user of this application?
 - :Yes
- 2. Have you logged in now?
 - : Not yet. Let me log in. (logged in successfully)
- 3. Ma'am can you tell me do you use the Inter-Bank Transaction option on daily basis? •Yes
- 4. Ma'am, how often do you use this option?
 - : As a business person I have to transfer funds between many bank accounts with different banks by daily, So I think two or three times per day.
- 5. Ma'am, can you identify the "Inter Bank Fund Transfer" option easily in "Transfer Services" menu? Are you selecting options by reading those or keep memorizing the place? :Usually, I navigate to the required page by only reading the heading of the option.
- 6. In "Inter Bank Fund Transfer" menu which option you use more often?
 - : Mostly I use Favorite transfer because it makes my transferring process easier.
- 7. Do you use manage favorite beneficiary option? If you use how often do you use that option? : Yes of course, as a businessperson I have to handle lot of new clients, so in order to make payment to those new clients, so I use Manage favorite beneficiary option usually once a week.
- 8. Have you ever input wrong details while adding new Favorite beneficiary?
 - : Yeah, as I remember once I input a wrong account number with 14 digits then it displayed an error message with the mobile number, so I got confused at that time. And also, the app is not validating the account numbers so always make sure that I'm not entering an invalid account number.

	Rating for the function	Rating for number of	Rating for Interface
	(Out of 10)	steps (Out of 10)	(Out of 10)
One time fund transfer	6	6	4
Favorite transfer	7	6	4
Manage favorite	6	6	4
beneficiary			

- 9. Do you think you can handle the whole function using one hand?
 - : Absolutely not! I have small hands and the buttons are at the bottom of the page.
- 10. Ma'am what do you think about the interfaces, are you satisfied?
 - : No! not at all. The user interfaces are not much user friendly. I think People's bank should think about the user experience of their customers.
- 11. Do you use bill payment option for paying any kind of bills? if so, what kind of bills do you pay? :Yes, I have used the bill payment option in order to pay my postpaid dialog bill, to pay insurance for my business in HNB assurance and to pay vehicle insurance in people's insurance. so, I mostly use this option in nowadays because of the covid-19 pandemic.
- 12. Have u used managing favorite bill option? and are u satisfied with it?
 - :Yeah, I have used it. and I think it is useful, since every month I have to pay my bills so using the manage favorite bill option it makes my bill payment process easier.

- 13. Have you ever paid a bill by scheduling it? and what is your opinion about it?

 Mumm, no, I have not. and in my opinion paying a bill by scheduling it have some issues. such as if I scheduled a bill payment and at that time if my account does not have the required money to pay the bill the scheduled bill payment process will not proceed. So, I think paying a bill by scheduling it is a complicated process.
- 14. How often do you use bill payment option?
 - :I use this bill payment option mostly once a month or twice
- 15. Are there any flaws in people's wave bill payment option?

 :Yeah, I think there is one major flaw in this bank's bill payment option. that is after paying a bill I will not get any downloadable receipt option. So, because of that when my business's accountant manages the book of accounts there will no receipt for verify the payment of business's insurance and because of that he need to look at my monthly banking statement in order to verify the insurance payment.
- 16. Finally, how do rate the bill payments option from 1 to 10 based on the importance & user experience?:6

Video recordings

https://drive.google.com/file/d/1Dy0IIRyy6Qx3ybwLAIRxDiXEYePx7UNs/view?usp=sharing















