User Interface Design Principle (PROG8150) | Fall 2023 Section 3 Group 4 Team Members

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A) The description of the application

Our project centred on the development of a mobile banking application aimed at offering a comprehensive and user-friendly financial experience akin to established platforms in the industry such as CIBC. Our team dedicated efforts to crafting an intuitive interface ensuring seamless navigation, convenient access to financial information, and secure transaction processing.

To enhance our design approach, we conducted thorough research on two prominent competitors in the mobile banking sector, analysing the features, strengths, and weaknesses of apps such as CIBC. Insights gleaned from this research were instrumental in shaping our development strategies.

Throughout the project lifecycle, we meticulously crafted sketches, wireframes, and a high-fidelity prototype, illustrating the entire user journey from the login screen to conducting transactions and accessing account information. This comprehensive prototype served as a blueprint for our mobile banking app's design and functionality.

Adhering to established industry norms, we implemented recognized design patterns, intuitive metaphors, and usability principles to ensure an engaging and intuitive interface. Collaborative usability tests were conducted, involving participants from various groups, providing invaluable feedback that informed iterative refinements to our application's usability and functionality.

In summary, our mobile banking application endeavours to deliver a comprehensive financial platform, merging ease of use, robust security measures, and customer engagement to offer users a seamless and trustworthy banking experience.

B) Tools used.

I. Microsoft word



We used Microsoft word for documentation purpose.

II. Microsoft Teams



We used Microsoft for purpose of coordination.

III. Adobe XD



We used adobe XD to create wireframes and high-fidelity prototype.

c) The UX strategy of your project.

Our UX strategy for the new banking application revolves around seamless navigation, user feedback integration, an intuitive transaction flow, and rigorous usability testing.

To ensure a user-friendly experience, our primary focus is on creating a clear and intuitive navigation system. We will structure the application's interface with logical and standard buttons, providing an organized pathway for users to navigate through various features. In addition, incorporating breadcrumb navigation will help users understand their current location within the application, enhancing overall usability.

User feedback will play a crucial role in our strategy. We plan to integrate customer reviews and ratings for different banking features, allowing users to share their experiences. This feedback mechanism not only fosters user engagement but also provides valuable insights into the effectiveness of various banking functionalities. It serves as a form of social proof, helping users make informed decisions about their financial interactions based on real customer experiences.

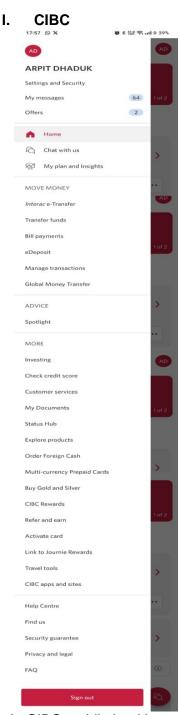
An intuitive transaction flow is paramount in a banking application. We will prioritize a user-friendly and efficient shopping cart equivalent for seamless financial transactions. This involves streamlining the process of transferring funds, making payments, and managing accounts, ensuring users can complete tasks with ease.

To continuously refine and optimize the user experience, we will implement A/B testing. This involves conducting controlled experiments with different interface variations to identify the most effective design elements and user flows. Based on the results, we will make data-driven decisions to enhance the application's usability and overall user satisfaction.

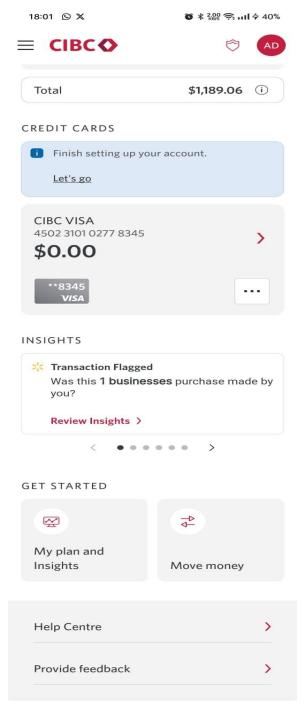
These UX strategies will be integrated into the development process, with the ultimate goal of creating a banking application that not only meets functional requirements but also prioritizes the user's needs and expectations.

D) Competitive research

To refine our design, we researched two competitor web applications, eBay, and Le Offer ecommerce websites. This research helped us identify strengths and weaknesses that guided our development.

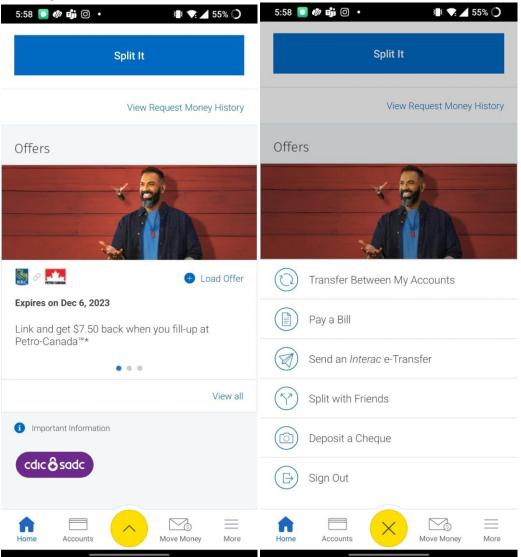


In CIBC mobile banking application, there are not many options to explore for the users. The application has most of the information under the (more) option. This will have a chance to get confused for the first-time users. Our group focussed into it and we changed this inconvenience to get more convenient for the people.



In CIBC application, the help centre is placed at the end of the page and it's visually not appealing as the user might not even look to the bottom of the page. This will create a struggle for the users to seek help when they were in doubt regarding their issues.

II. RBC



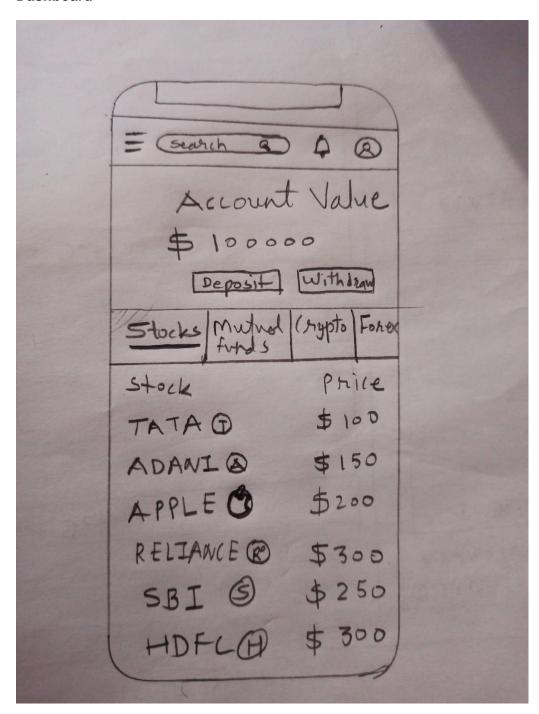
In RBC, there is a yellow coloured round option for more menu but the symbol does not related to what it means. So, the users will have struggle while finding more options to explore.

E) Our prototypes (Sketches, wireframes, high-fidelity prototypes).

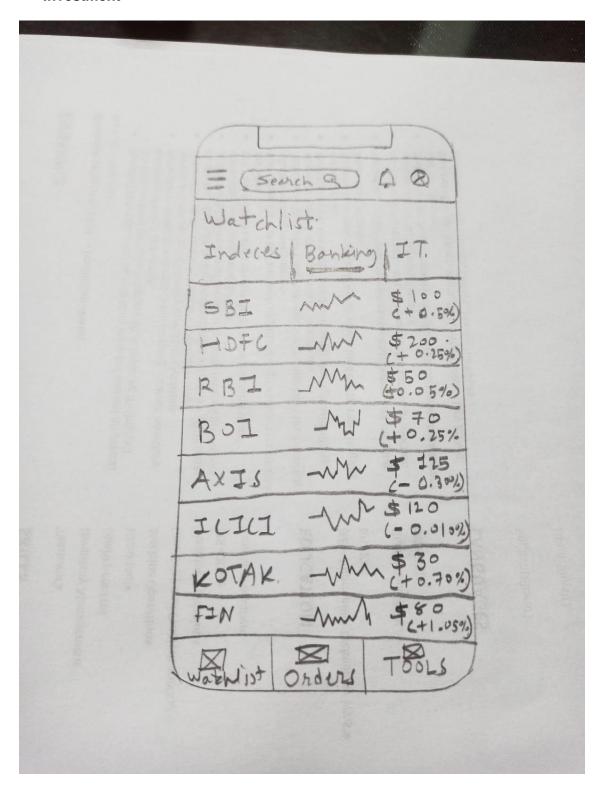
a. Sketches

I. Shubham Bhavdeepbhai Agravat

Dashboard

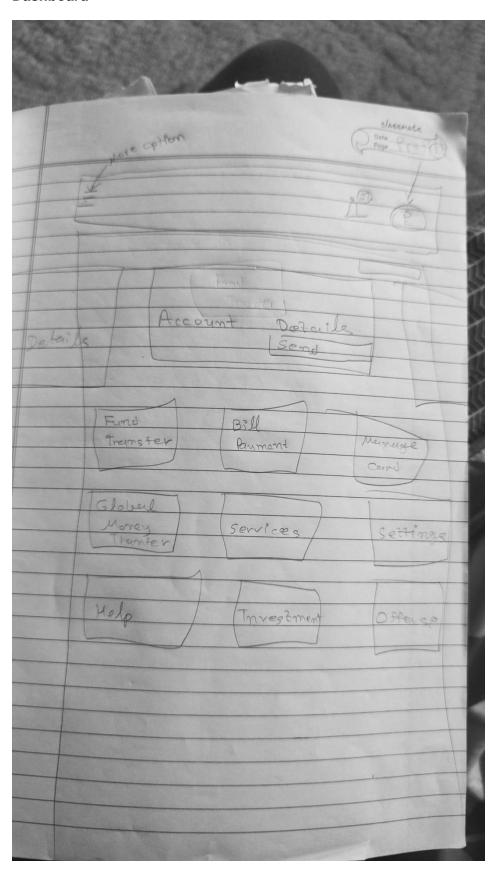


Investment



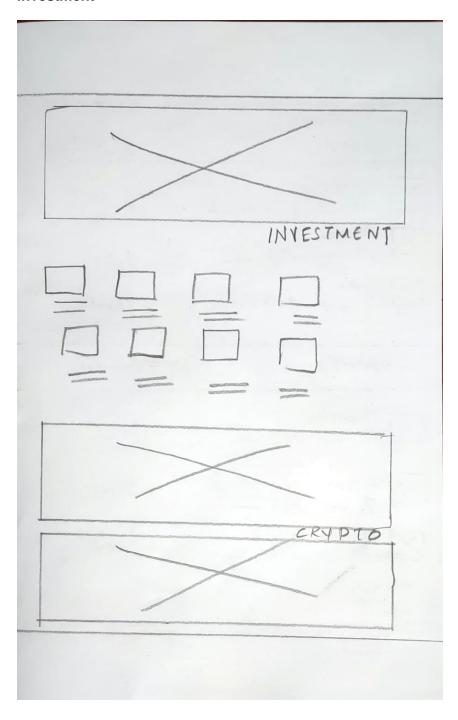
II. Arpit Sanjaybhai Dhaduk

Dashboard

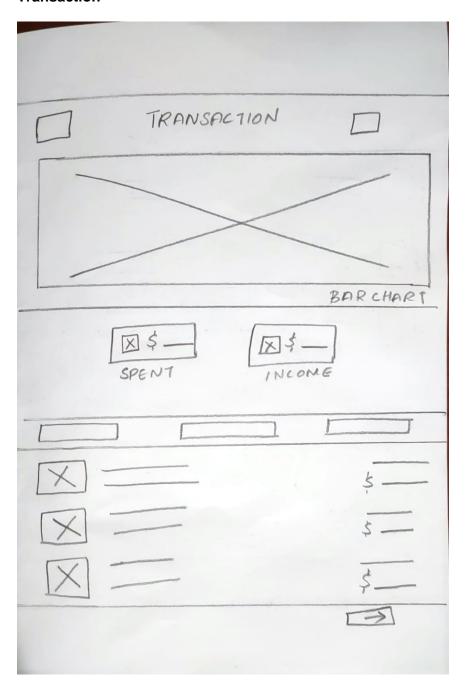


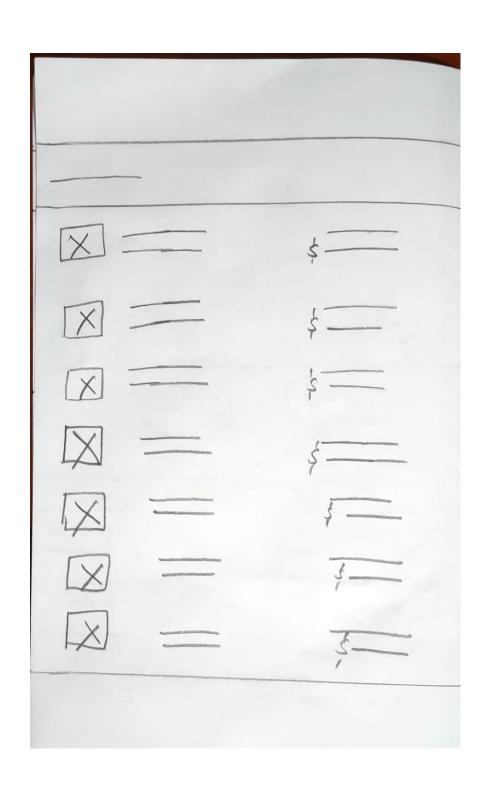
III. Nayana Sebastian

Investment



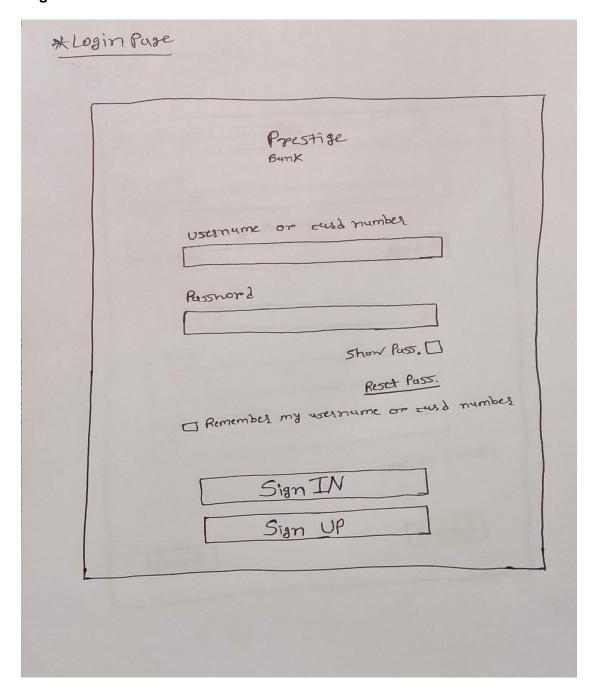
Transaction



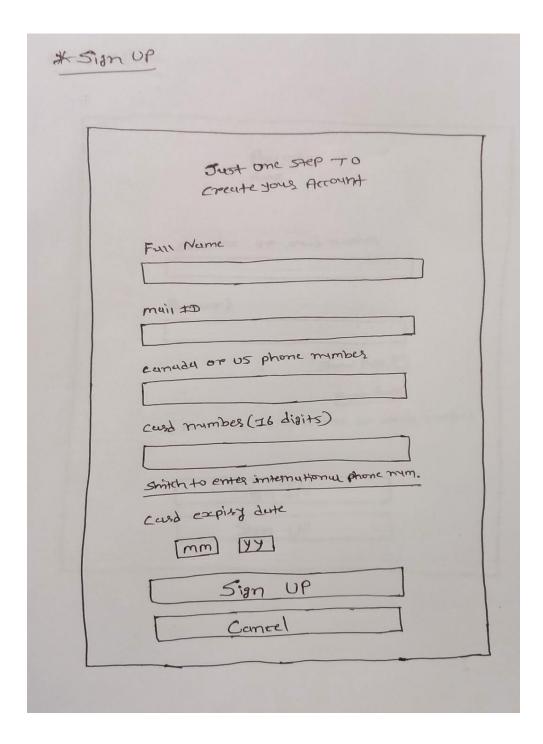


IV. Dharmikbhai Bhupatbhai Nakrani

Login



Sign Up



Fund Transfer



b. Wireframes

I. Login

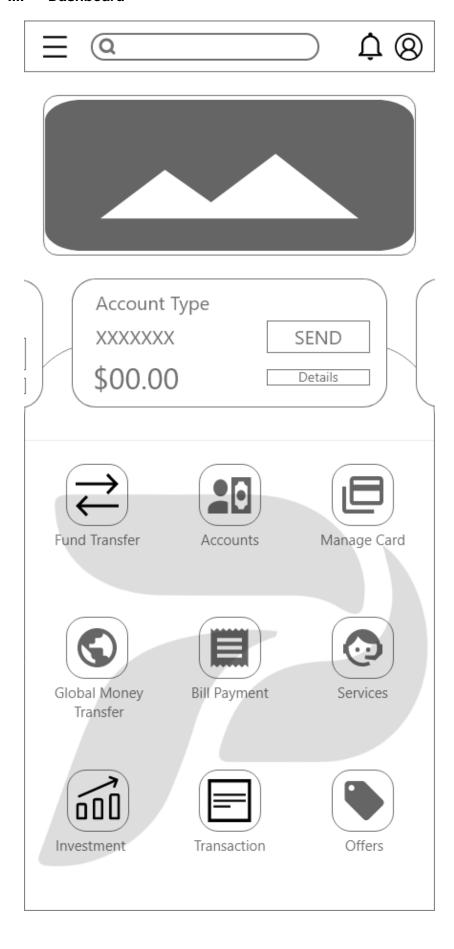


Username or card number			
Password			
Show Password			
Reset Password			
Remember my username or card number			
Sign IN			
Sign UP			

II. Sign Up



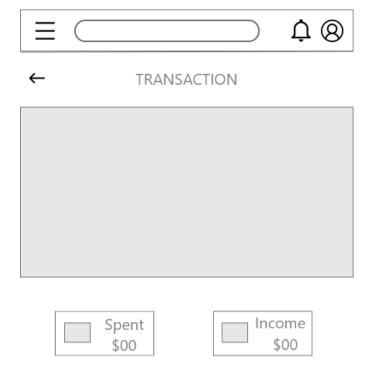
III. Dashboard



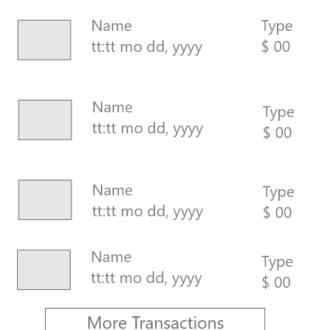
IV.	/. Fund Transfer				
	Amount				
	From Account Chequing				
	23045678 \$1,150.50				
	To Name				
	Email				
	Phone Number				
	Need More Info?				
	Cancel Procceed				

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	Investment	

VI. Transaction



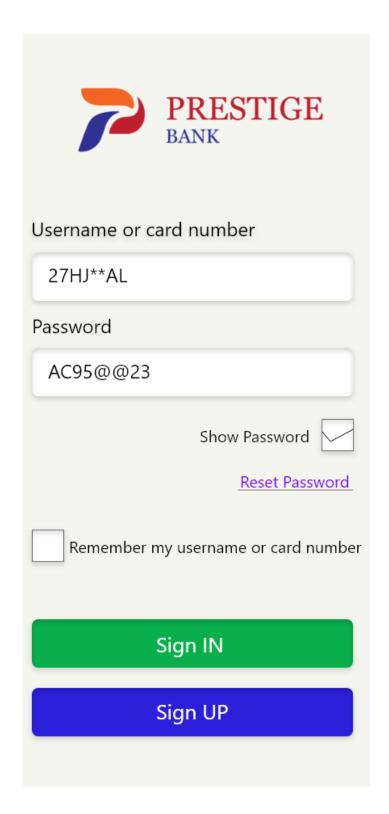
Transactions History





c. Prototype

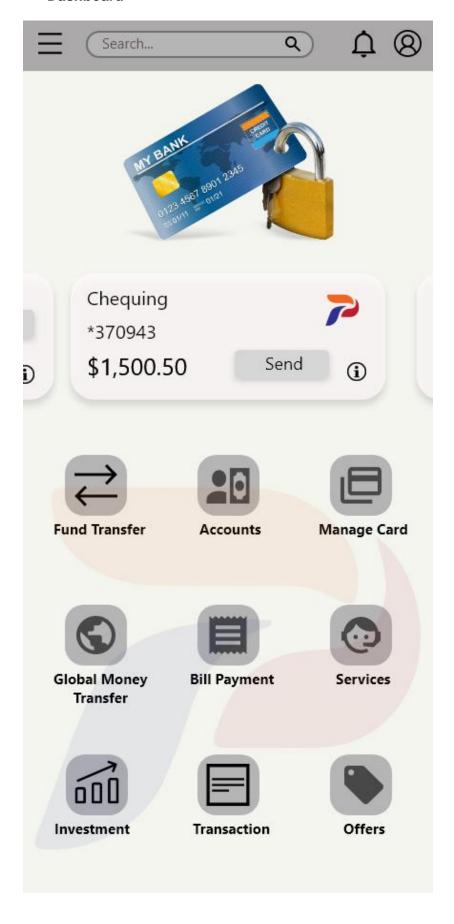
Login



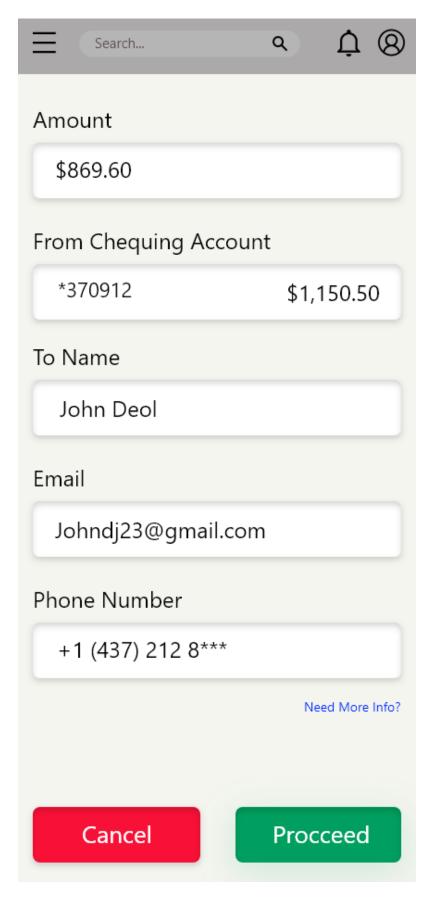
Sign Up

JUST ONE STEP TO CREATE YOUR ACCOUNT				
Full Name				
Mail ID				
Canada or US phone number				
Card number (16 digits)				
Switch to enter International Phone Number				
Card expiry date				
MM YY				
Sign UP				
Cancel				
Help?				

Dashboard



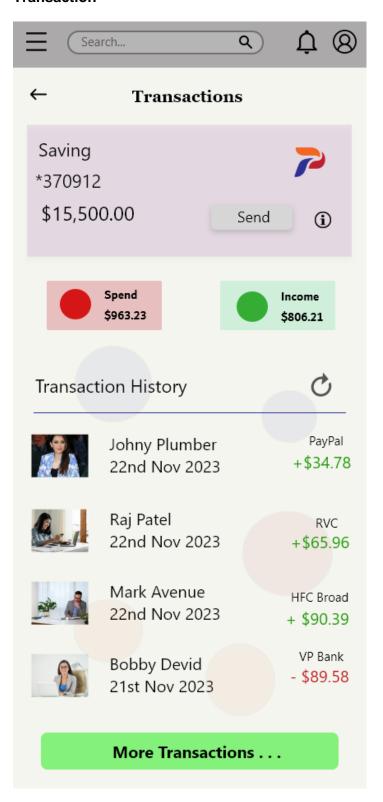
Fund Transfer

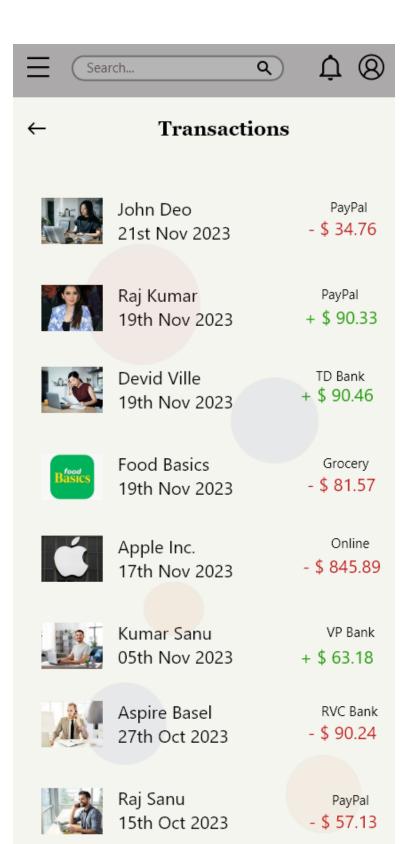


Investment



Transaction





F) Table or list showing where you implemented the

a. 5 metaphors

I. Manage Card



The manage cart icon symbols the card settings section, where users can manage their card like block card, order a new one, so on.

II. Bill Payment



The bill icon symbols the bill payment section where user can pay various bills like credit card bill, mobile bills, so on.

III. Services



This icon symbols services section where are all other facilities are located like transfer money between accounts.

IV. Offers



This icon symbols offers section where are all offers given by bank are located like transfer money between accounts.

V. Globe



This icon symbols offers section which allows user to transfer around the glob for example from Canada to India,

b. 5 design patterns

I. Proximity



Grouping related items together using proximity helps users perceive them as a single unit. For example, in a middle part, placing Buttons close to the corresponding functionality helps users quickly understand which button corresponds to which functionality.

II. Closure



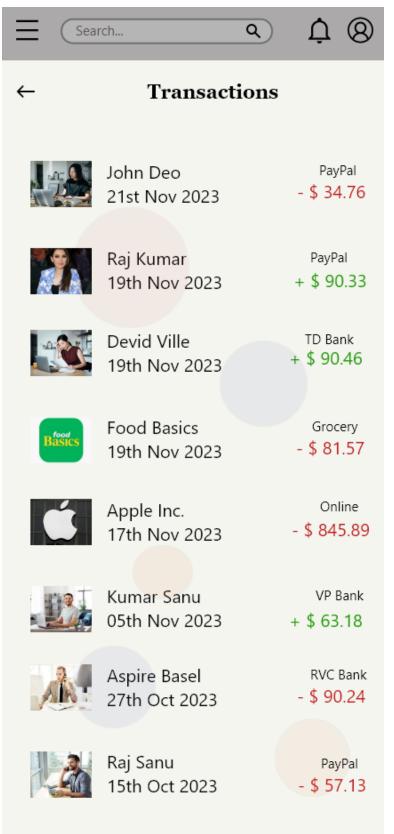
On Home page, User can see that there are accounts feature available where user can see account details and if they have more than one account they can simply swipe left or right to check different accounts.

III. Similarity



In the investment section all types of investments are created using same size of image and same fonts.

IV. Symmetry



Symmetrical transaction page all transaction are shown symmetrically.

V. Continuation



The account detail section in dashboard is using this rule by providing continues details regarding accounts.

c. and 10 Usability principles.

I. Visibility of system status



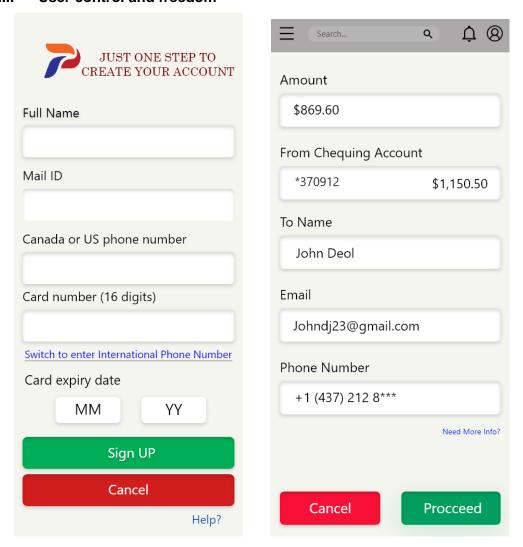
Here user can keep track of their account balances and credit card debt.

II. Match between system and the real world



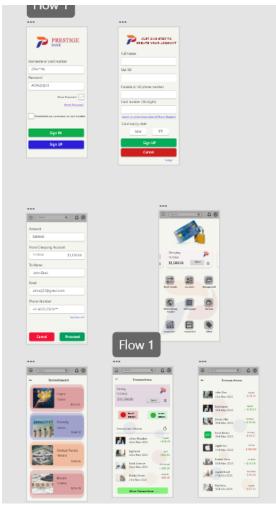
There are many icons are present here which helps user to identify it's function at some level without language barrier.

III. User control and freedom



In sign up page user can return to login page by simply clicking on cancel and in transaction by clicking on cancel user will return to dashboard.

IV. Consistency and standards

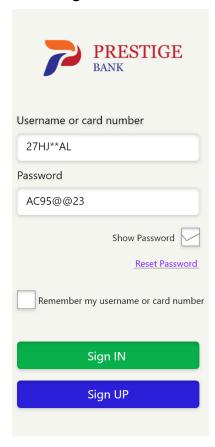


All the pages with the same color palette, identical header and footer, and buttons with a consistent shape and style adhere to principles of consistency and standardization.

V. Error Prevention

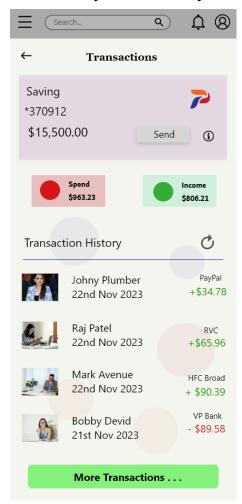
A message above the password field is displayed when the customer is registering, guiding them to create a password that complies with system requirements.

VI. Recognition rather than recall



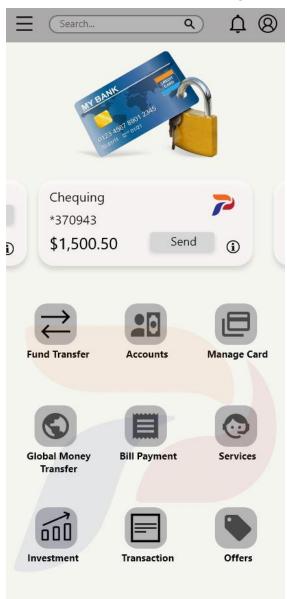
On loginb page there is a button remember me by clicking it user allows system to remember username so user don't have to enter it every time.

VII. Flexibility and Efficiency of use



On transaction page every transaction are written with necessary details and easily noticeable notations so user can understand them easily.

VIII. Aesthetic and minimalist design



We aimed to design an e-commerce platform as minimalist as possible, enabling customers to navigate easily without distractions and enjoy an uncluttered visual experience.

IX. Help users recognize, diagnose, and recover from errors.

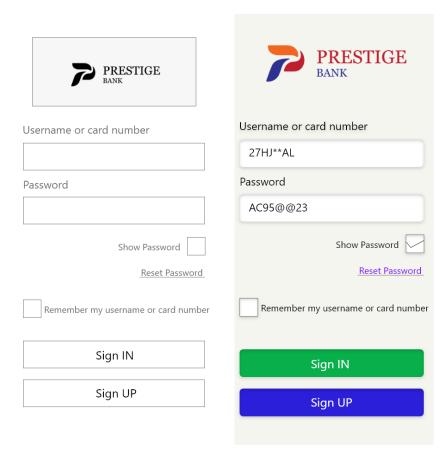
There are messages in login form and Fund transfer page.

X. Help and documentation.

There is a help option in services function which allows user to chat with chatbot or call customer representative.

G) Prototype matches the wireframe.

Login



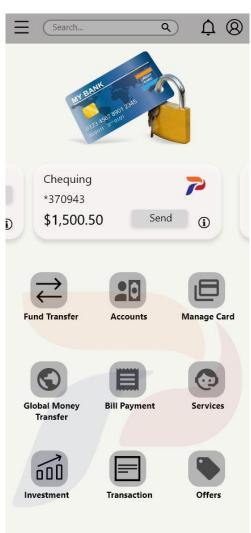
Sign Up



JUST ONE STEP TO CREATE YOUR ACCOUNT				
Full Name				
Mail ID				
Canada or US phone number				
Card number (16 digits)				
Switch to enter International Phone Number				
Card expiry date				
MM YY				
Sign UP				
Cancel				
Help?				

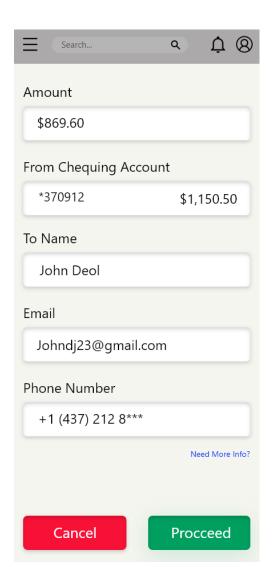
Dashboard



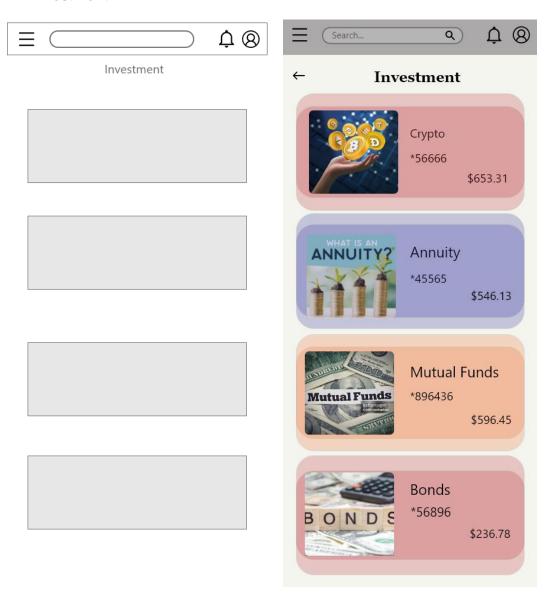


Fund Transfer

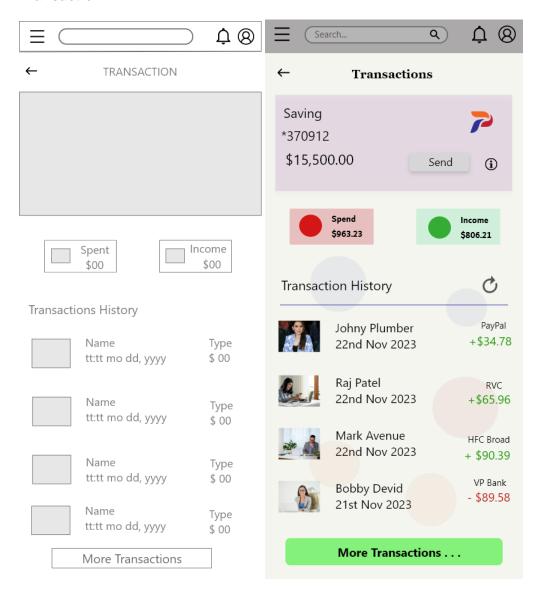
Amount					
Amount					
From Account Chequing					
23045678	\$1,150.50				
To Name					
Email					
Phone Number					
Need More Info?					
Cancel	Procceed				



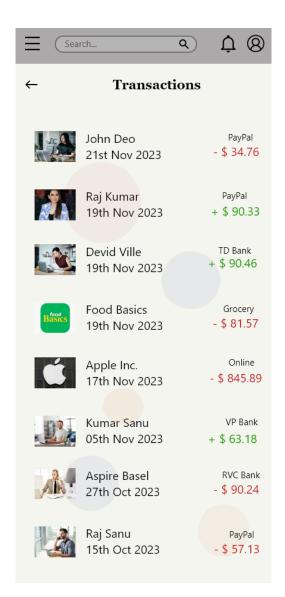
Investment



Transaction







н) The usability tests results.

We conducted usability tests in collaboration with relatives and friends of each team member,

collecting valuable feedback that allowed us further refinements to our platform. Here are some.

adjustments made to our prototype based on feedback:

Include details like account number and balance fir each account in investment page.



Insert section with recently reviewed items, to enable client to see previous products: