
CodeeBank

**Bank Management System
UI Design**

Version 1.0

Revision History

| Date | Version | Description | Author |
|------------|---------|-------------|---------------|
| 18/03/2021 | 1.0 | Final Draft | An Thị Phương |
| | | | |
| | | | |
| | | | |

Contents

| | |
|--------------------------------------|-------------------------------------|
| Bank Management System | Error! Bookmark not defined. |
| User Interface Design Document | Error! Bookmark not defined. |
| 1. Introduction | 4 |
| 2. User Interface Standards | 4 |
| 3 User Interface Walkthrough | 8 |
| 1. Guest navigation diagram | 8 |
| 2. User navigation diagram | 16 |
| 3. Admin navigation diagram | 20 |
| 4. Conclusion | 24 |

1. Introduction

User interface design is considered as a dispensable element during design and implementation phase of the Bank Management System. The report provides general description of interface design and demonstrate the process of interface design.

The goal of the software design is to create a simple and usable web application and provides users just what they want. Therefore, we need simplicity in product development and product use as well. User interface design just fulfill this need with four mains elements: Usability, Visualization, Functionality and Accessibility.

2. User Interface Standards

Give the reader an overview of the design standards that you will use to maintain consistency in the user interface throughout your system. Use illustrations as necessary. Discuss general screen layouts, common components (e.g., buttons, menus), general error handling, and navigation. You do not need to go into details such as colors and fonts. [Length will vary, but I would expect at least one overall screen layout illustration with explanations of the different screen areas, common components that will be used, and how the user will generally navigate through the system.]

For making user experience enjoyable, there are somethings that should be considered

2.1 Consistency

Inconsistent pages make users confusing when using the web application and makes things complex while inconsistency provides clarity. Some basic elements of an application user interface that designer should be consistent with are color scheme, style, borders, type and font size, background and effects.

- Consistency also means doing similar tasks in a similar way. In this application: Clicking on home button or bank's logo in the navigation bar always take the user to the homepage at all time.



- Consistent page layout contains header (navigation bar), body and footer.
For example, in the Fund Transfer and Fund Transfer Report, they are designed in the similar way:

A screenshot of a web application's "Fund Transfer" page. The page has a dark blue header with navigation links: "Home", "Fund Transfer", and "Report". It also shows "Account Balance: 0" and a user greeting "Hi, Phuong Anh". The main content area is light blue and contains the title "Fund Transfer" in blue. Below the title are two input fields: "Beneficial Account No." and "Transaction Amount". At the bottom of the form are two buttons: a green "Save" button and a red "Reset" button. The footer is dark grey and contains the text "CONTACT We Are There For You" along with social media icons and a chat bubble icon.

CodeeBank Home Fund Transfer Report Account Balance: 0 Hi, (User_name)! ▾

Fund Transfer Report

By Account No. Beneficial Account No.

| Transaction No | ID | Beneficial Account No | Beneficial Account Name | BankName | By Account No | By Account Name | Date | Amount | Status |
|--|----|-----------------------|-------------------------|----------|---------------|-----------------|------|--------|--------|
| <div><input type="button" value="Previous"/> <input type="button" value="Next"/></div> | | | | | | | | | |

CONTACT
We Are There For You ☺

The figures above describe how consistency is maintained in looks and features, so once user learns one of the page, it becomes easy for him to learn the rest as well.

2.1 Responsiveness

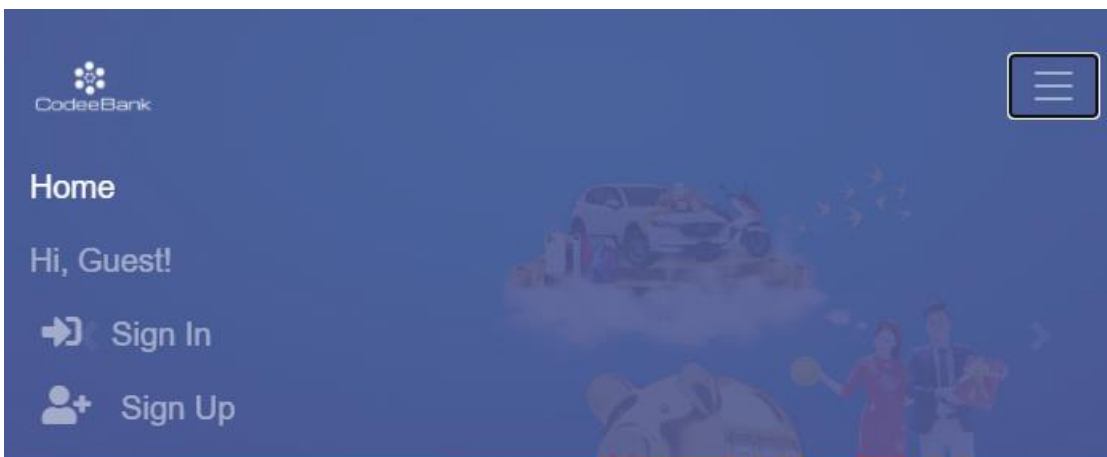
The user might find it very annoying to keep waiting in a site and wonder how to react to a certain situation. The basic idea of the site being responsive is the site responding to the user actions. If the page takes long time to load, one can provide some visual graphical representation or any plain text that suggest the page is loading or tell them the progress status.

In the application, we use light graphic to minimize the problem. For some cases, if images cannot be loaded, alternative text stating what image it is, which help the user to at least understand the idea behind the problem.

On the other hand, with the help of Bootstrap, the responsiveness is stronger. We resize elements such as: text, image, icon, padding, ...in a page based on the size of the user's screen. For example, if the width of the user's screen is larger than 800px, the navigation bar will show all text link in one line as shown in below figure:



If the width smaller than 800px, the navigation bar will be shown as menu and it is expanded by clicking on menu icon like the below images:

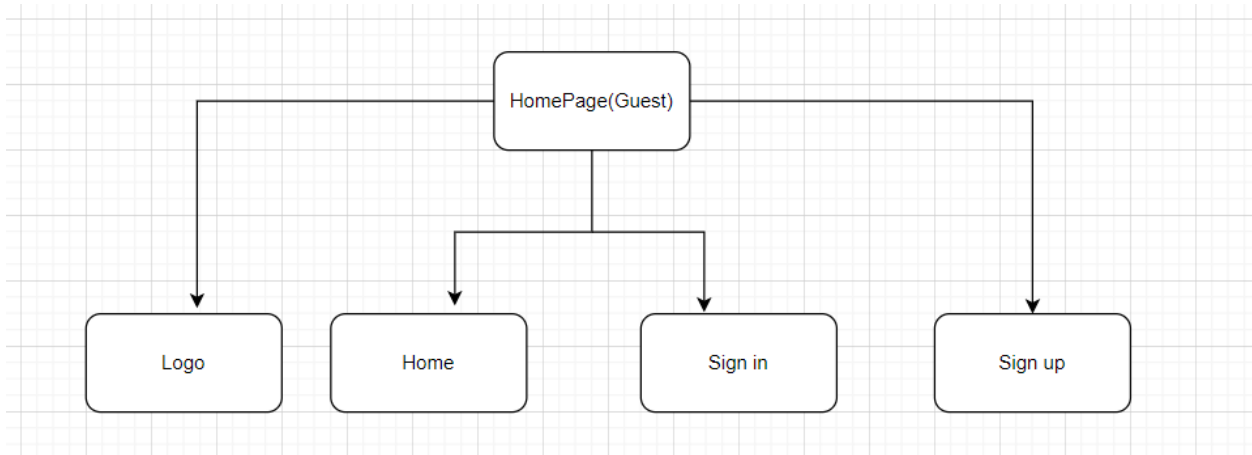


2.2 Familiarity and Simplicity

The system uses common terms to help users to familiarize with the website faster. For example, we use words: Home, Sign In, Sign Up, Sign Out, which are very common in other existing internet sites and some bank terms like Transfer, Amount, Account, Transaction is widely used, which helps users to skip understanding these parts of the site and also minimize the learning process.

3 User Interface Walkthrough

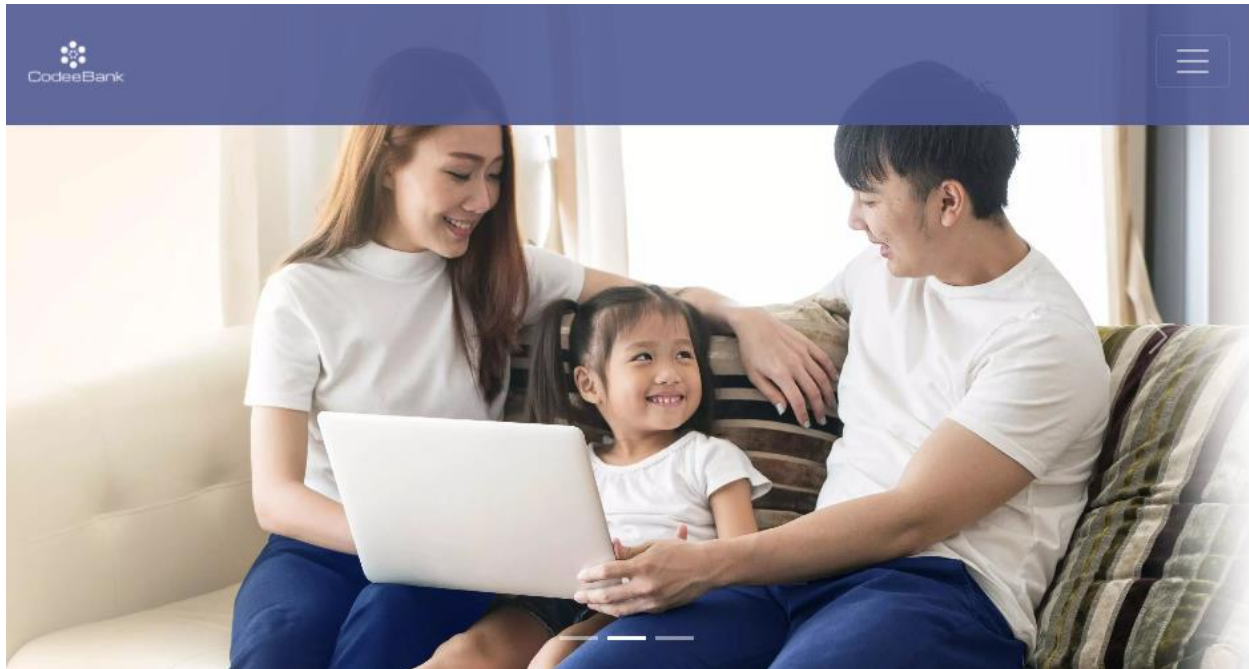
1. Guest navigation diagram



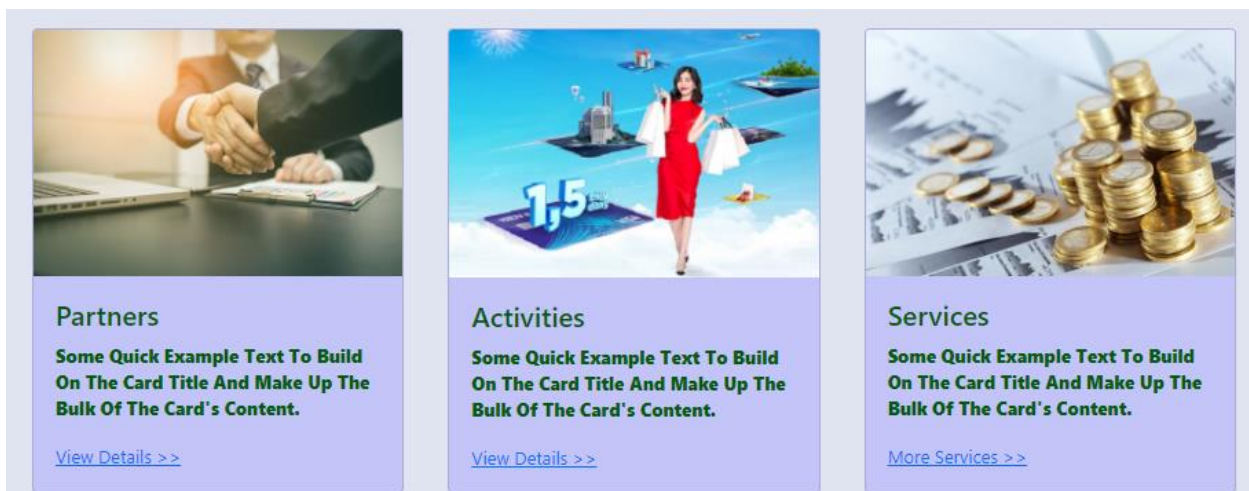
As a guest, the user can view some public information of the bank in home page by clicking on the logo or home link in the navigation bar. He can sign in or sign up if want to create a new account.



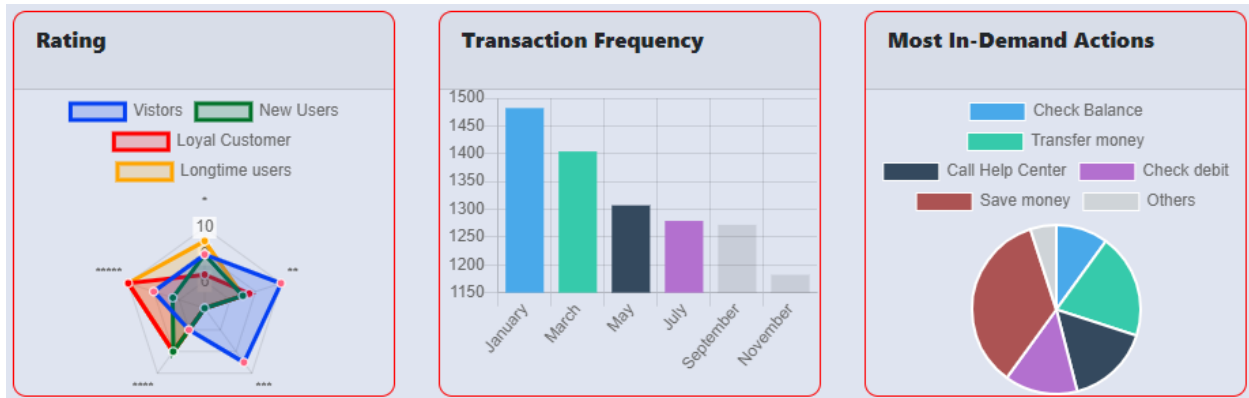
- The logo and Home link to refresh Home Page.
- Below the navigation bar, there is carousel that provides some typical information or special events. Users can click on the image to see more detail of each event.



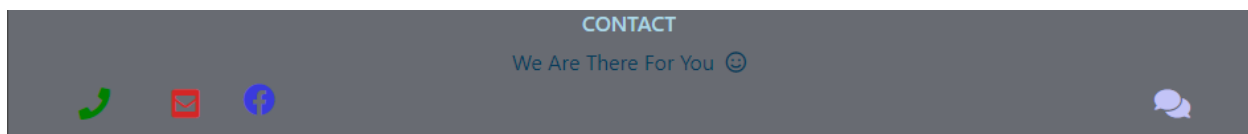
- Usually, there are three cards about: Partners, Activities and Services provides some related information that users may concern and they can click on View Detail >> link to find more information about the bank.



- There are three charts for hot concerned problems from time to time.

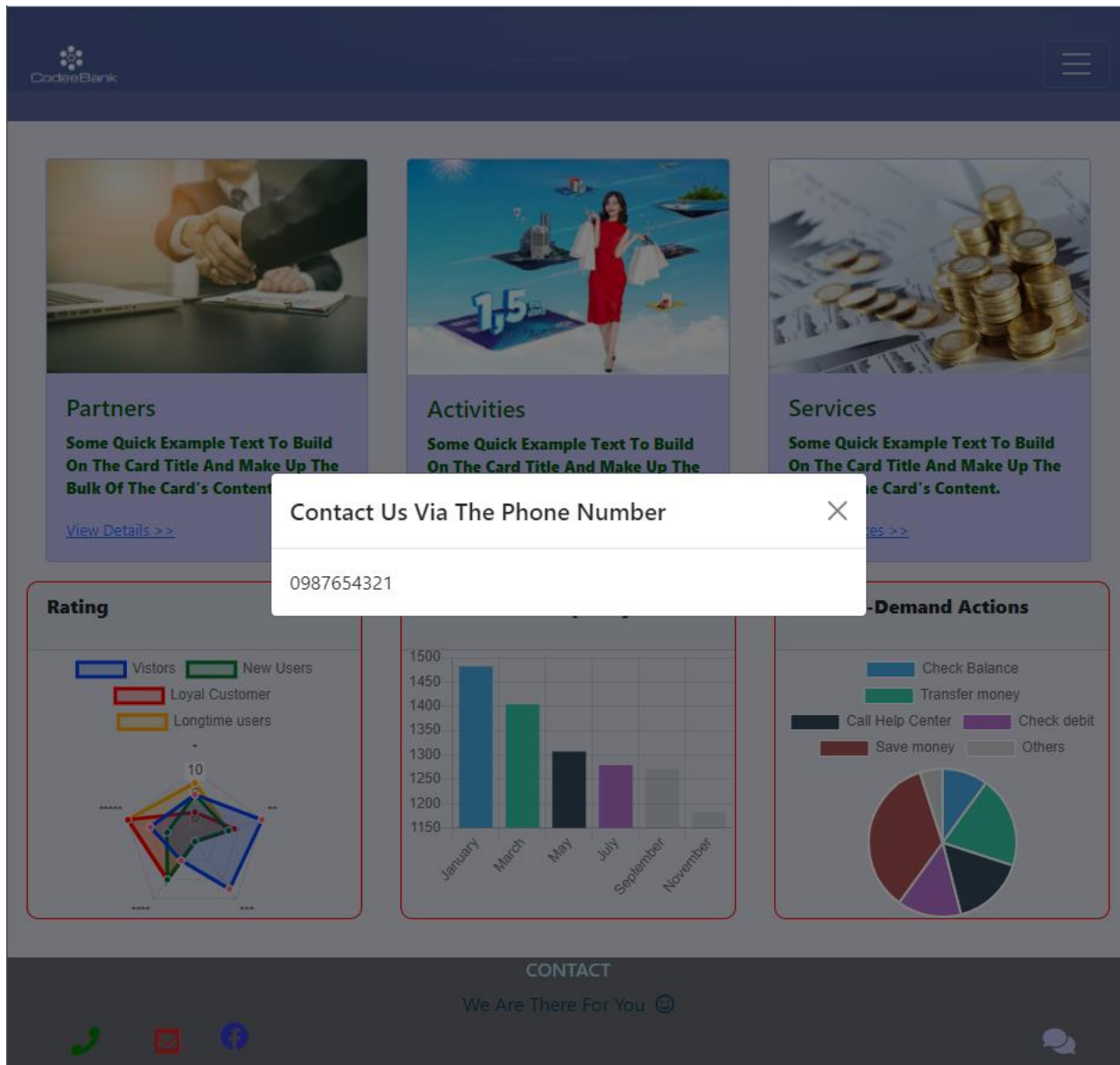


- In the footer, actually, it is the contact part, users can choose some method to contact with the support team.

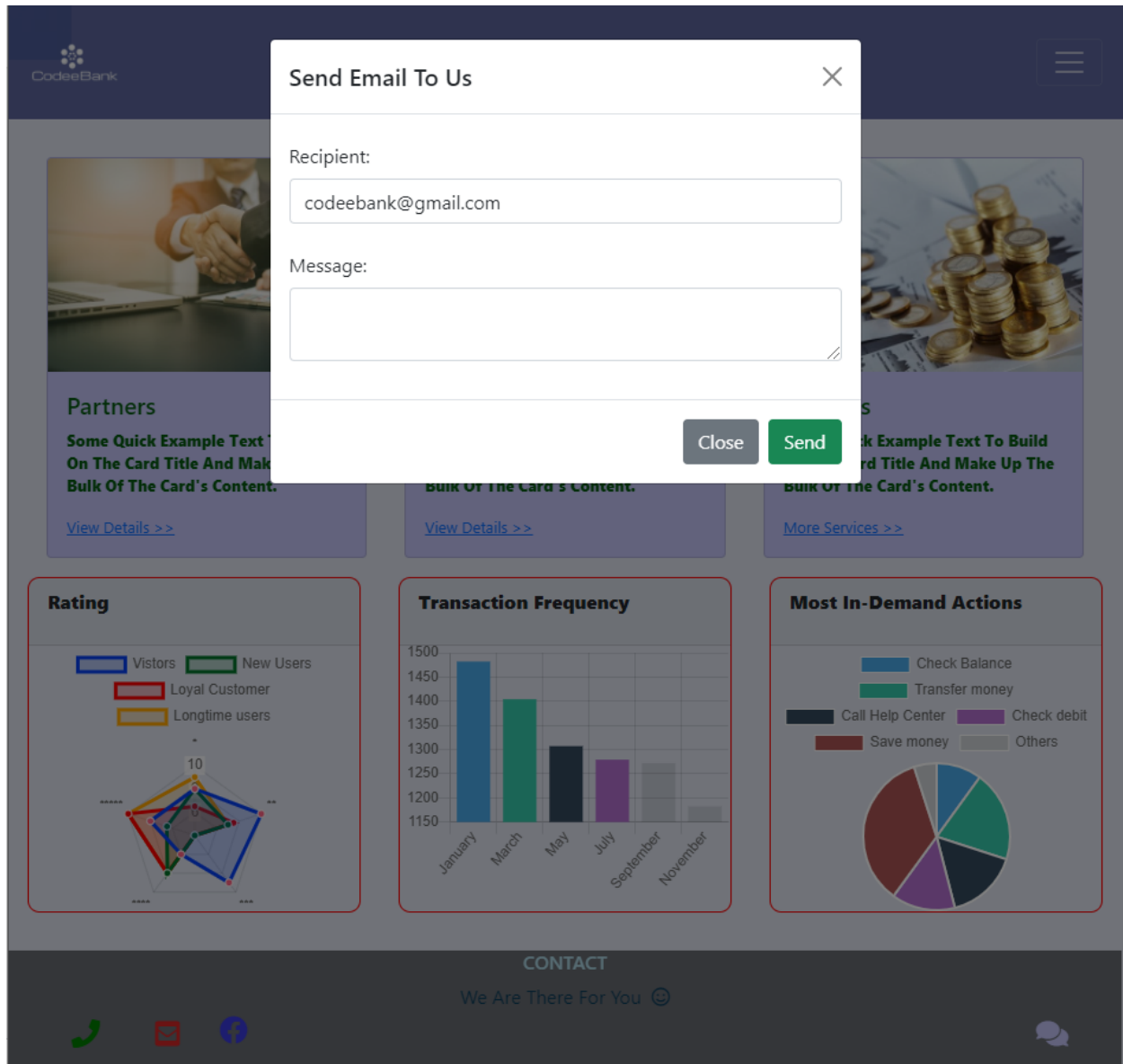


With Facebook, email and phone channel, they need to wait a time to responded, but if they choose the message label to the right, they can chat with support staff constantly with working hours.

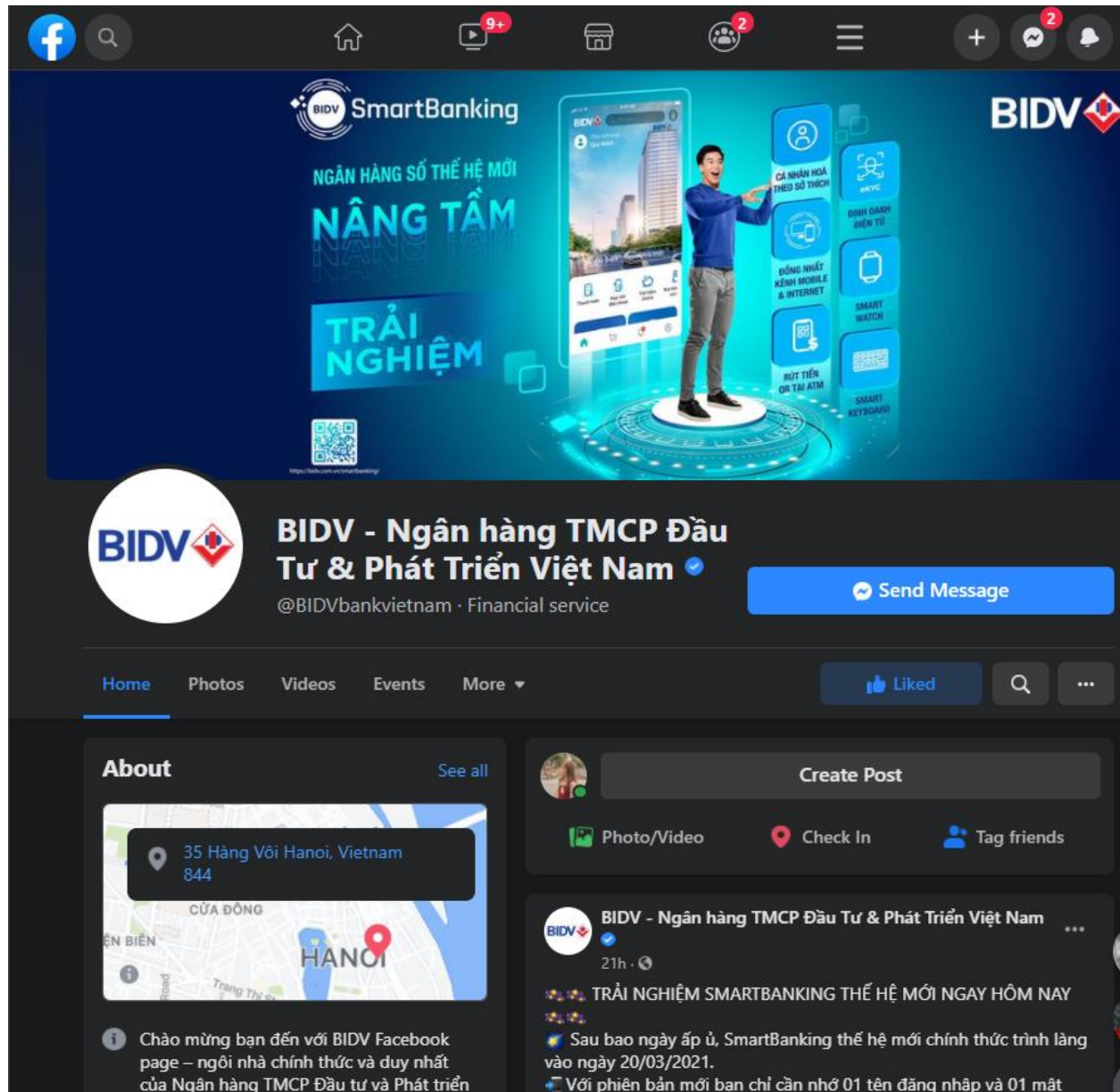
Click on phone icon, the contact phone number will appear:



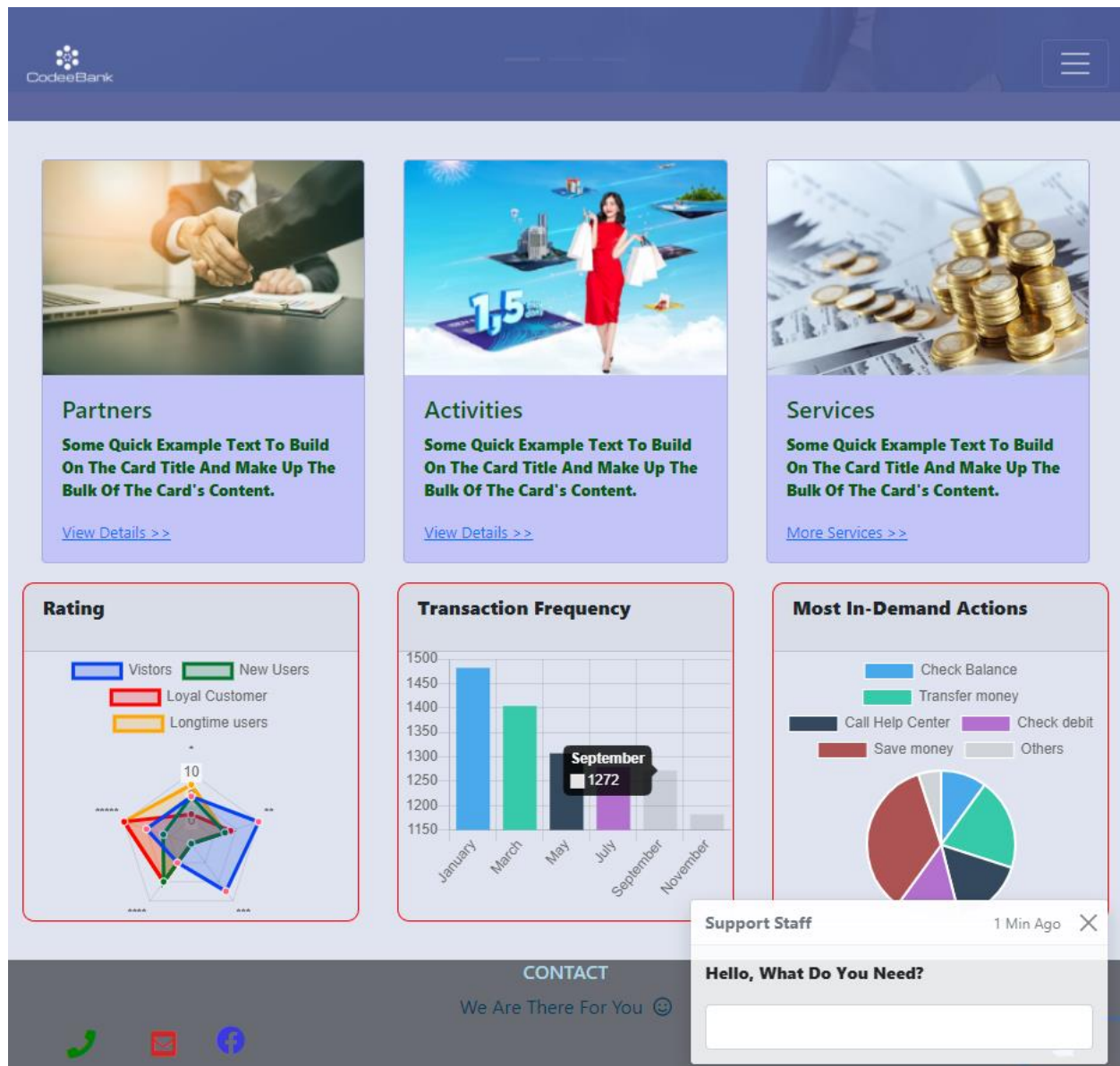
Form for contact via email by clicking on email icon:



Clicking on Facebook icon will take the user to the Bank's Facebook page:



To see instance message like this figure when the user click on message icon:



- Users can choose Sign In or Sign Up by clicking on the corresponding link. If users click on Sign Up, the system will navigate to Sign Up page. In this page, there is a form for users to enter all required information to create a new account.

CREATE AN ACCOUNT

Username
Username Must Be From 4 - 32 Characters

User's Account Number

Date Of Birth

Phone

Email

Address

Password
Password Must Be 6 - 32 Characters

[Create an Account](#)

CONTACT
We Are There For You

If users click on Sign In, the system will render the Sign In page and users need to enter correct username and password to log in to their account. In the case users have not had an account, they can click on the Didn't you have account yet link to create an account, which takes users to Sign Up page.

Sign In

Username
Enter Username

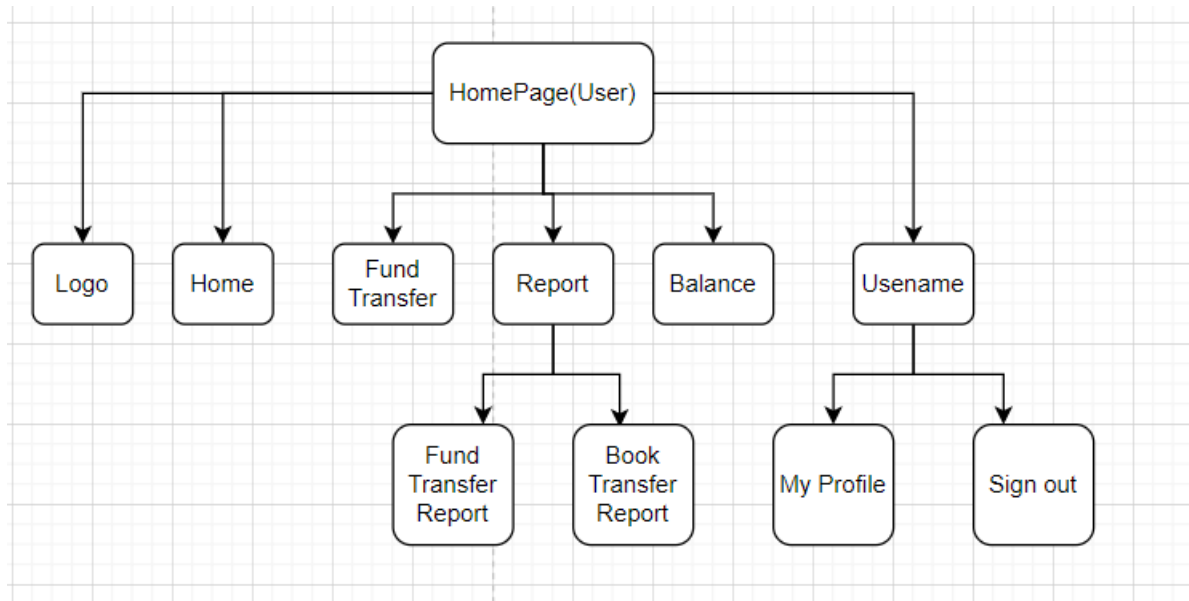
Password
Enter Password

[Login](#)

[Didn't Have Account Yet?](#)

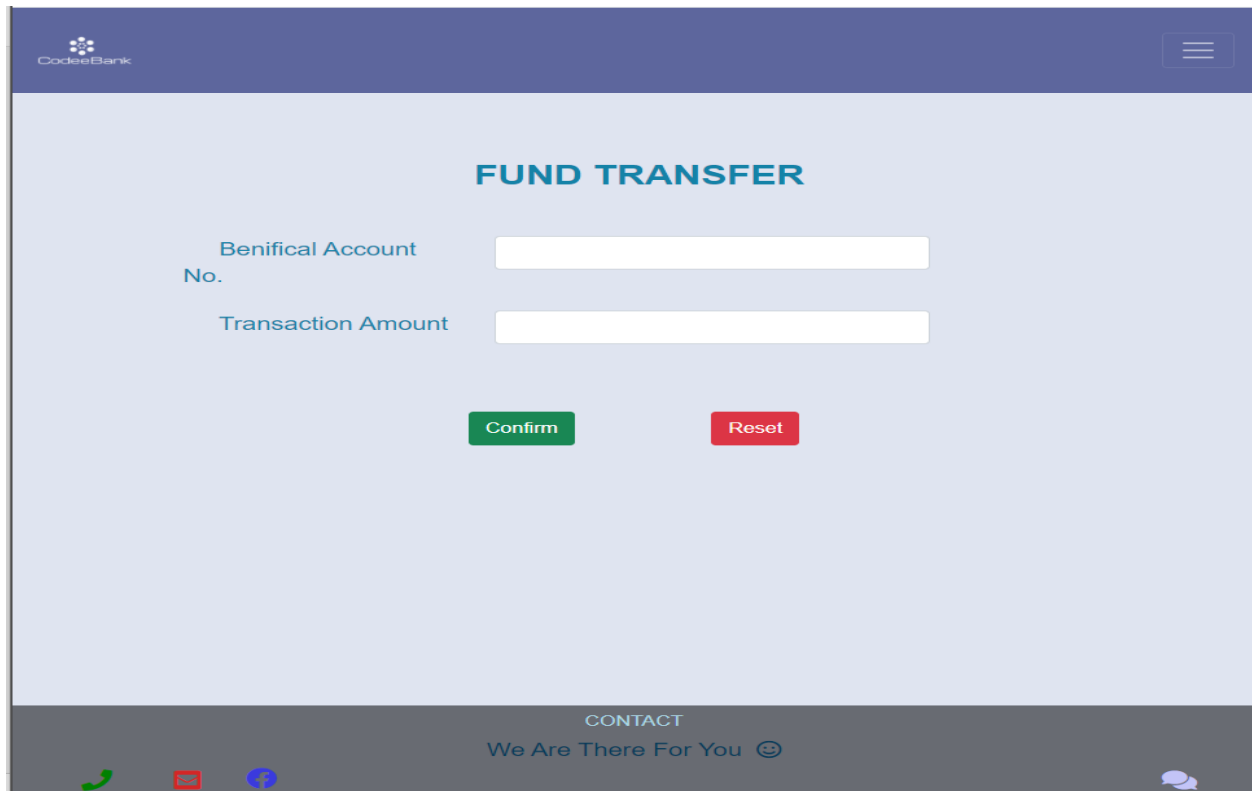
CONTACT
We Are There For You

2. User navigation diagram



After user login to the system, the navigation bar change to some features that uses can do with the system by click on corresponding link.

- + Fund Transfer page: to make a transaction by entering a beneficial account, amount of money or give some description about this transaction and click button Send to start this action.



The image shows a web interface for CodeeBank. At the top, there is a dark blue header with the CodeeBank logo on the left and a hamburger menu icon on the right. Below the header, the main content area has a light blue background. In the center, the title "FUND TRANSFER" is displayed in bold blue text. Below the title, there are two input fields: "Benifical Account No." and "Transaction Amount". Below these fields, there are two buttons: a green "Confirm" button and a red "Reset" button. At the bottom of the page, there is a dark grey footer. On the left, there are icons for a phone, email, and Facebook. In the center, the text "CONTACT We Are There For You 😊" is displayed. On the right, there is a speech bubble icon.

CodeeBank


FUND TRANSFER

Benifical Account No.

Transaction Amount

CONTACT
We Are There For You 😊

+ Fund Transfer Report page where users can review all transactions, they can search transactions by transactions type and amount of money.


[Home](#)
[Fund Transfer](#)
[Report](#)
Account Balance: 10000000
Hi, Phuong An!


FUND TRANSFER LOGS

By Account No.
Beneficial Account No.

| No | Transaction ID | Beneficial Account No | Beneficial Account Name | BankName | By Account No | By Account Name | Date | Amount | Status |
|----|--------------------------|-----------------------|-------------------------|----------|---------------|-----------------|---------------|--------|---------|
| 1 | 6055d0c0aafa452cc43655bc | 43809482343 | P | BIDV | A | 4534535346 | 1616239808974 | 100000 | Pending |
| 2 | 6055dea5aafa452cc43655bd | | | BIDV | | | 1616240293582 | | |
| 3 | 6055dea9aafa452cc43655be | | | BIDV | | | 1616240297189 | | |
| 4 | 6055deaaaafa452cc43655bf | | | BIDV | | | 1616240298225 | | |
| 5 | 6055f213aafa452cc43655c1 | | | BIDV | | | 1616245267051 | | |
| 6 | 6055f216aafa452cc43655c2 | 43809482343 | | BIDV | | | 1616245270905 | | |
| 7 | 6055f23aaafa452cc43655c3 | 43809482343 | P | BIDV | A | 4534535346 | 1616245306381 | 100000 | Pending |

CONTACT
We Are There For You

+ Book Transfer Report page in which users can check deposit history, they also can search transaction by transaction type and amount of money.


[Home](#)
[Fund Transfer](#)
[Report](#)
Account Balance: {Balance_value}
Hi, {User_name}!

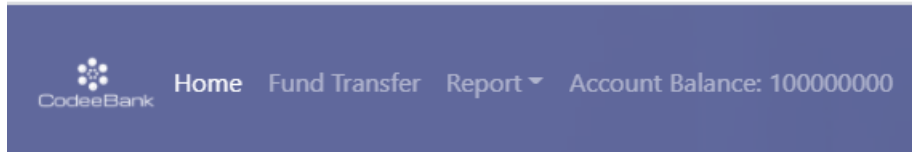
BOOK TRANSFER REPORT

Transaction Type
Amount

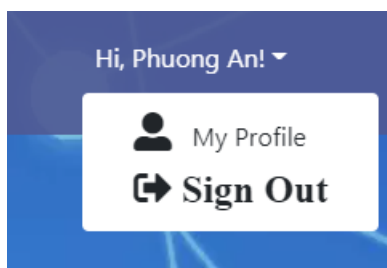
{Tb}

| No | Account No | Name | BankName | Transaction Type | Amount | Date | Description |
|----|------------|------|----------|------------------|--------|------|-------------|
|----|------------|------|----------|------------------|--------|------|-------------|

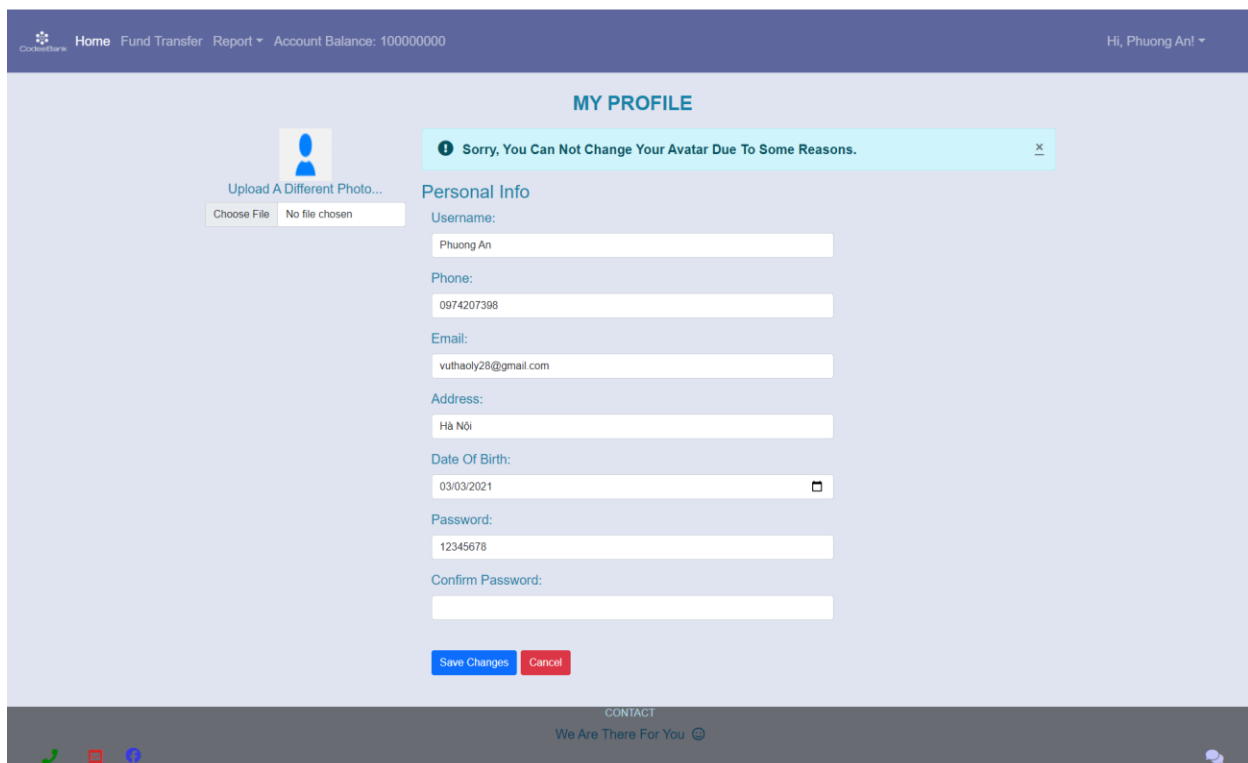
+ The account balance is always shown in the navigation bar whenever users sign in successfully.



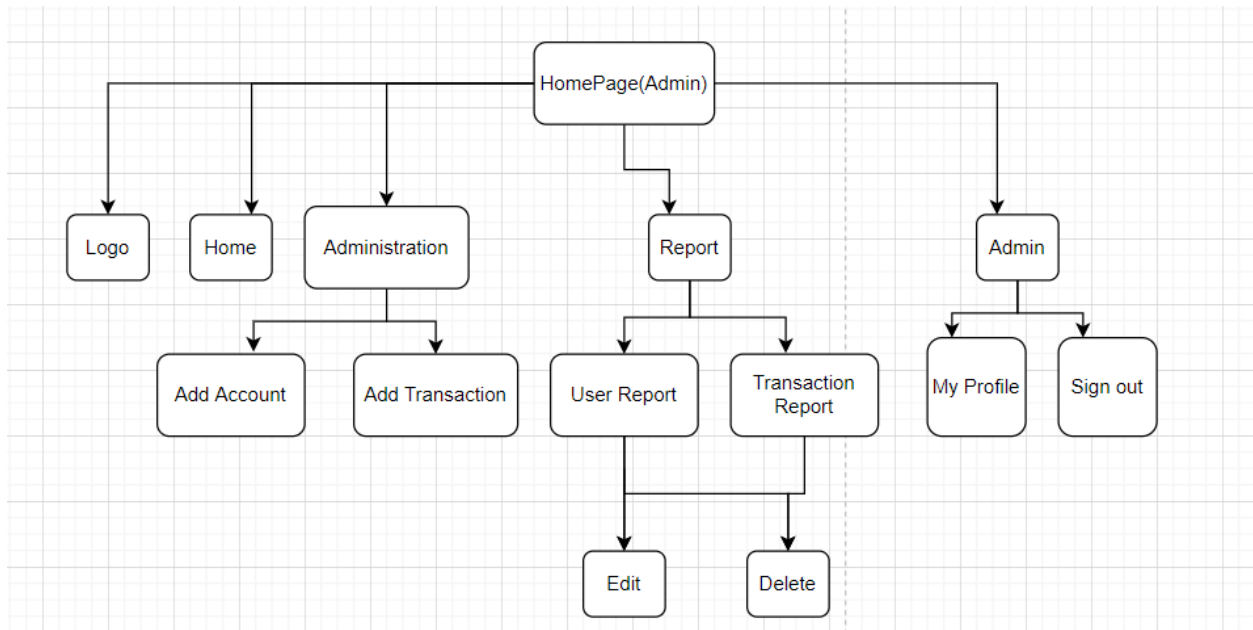
+ On the right side of the navigation bar, the user can click on his username to see My Profile to view or edit their profile or click Sign out to logout of the system.



Profile Page:

The 'MY PROFILE' page in CodeeBank. At the top is a navigation bar with the CodeeBank logo, links (Home, Fund Transfer, Report), and account balance. The page title is 'MY PROFILE'. On the left, there's a profile picture placeholder with a blue person icon and a message 'Upload A Different Photo...'. Below it are 'Choose File' and 'No file chosen' buttons. A light blue error message box says 'Sorry, You Can Not Change Your Avatar Due To Some Reasons.' The main section is 'Personal Info' with form fields for Username (Phuong An), Phone (0974207398), Email (vuthaoly28@gmail.com), Address (Ha Noi), Date Of Birth (03/03/2021), Password (12345678), and Confirm Password. At the bottom are 'Save Changes' and 'Cancel' buttons. The footer contains a 'CONTACT' link, the text 'We Are There For You', and social media icons.

3. Admin navigation diagram



Besides some similar functions to users' functions, the admin has some additional functions.

By clicking on Administration link, the system will navigate the admin to Add Account page or Add Transaction Page:



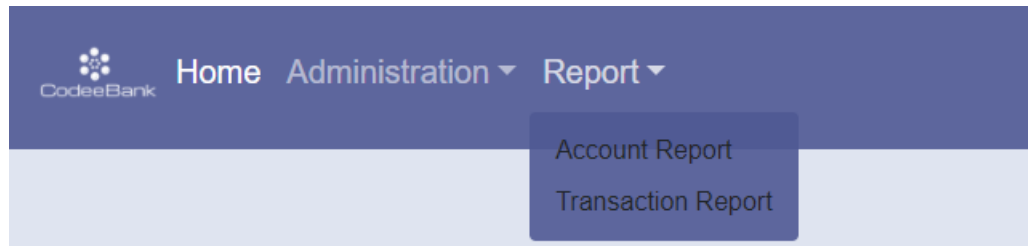
To view Add Account page, admin click on Add Account link:

The screenshot shows the 'ADD ACCOUNT' form in the CodeeBank admin interface. The form is titled 'ADD ACCOUNT' in blue text. It contains several input fields: 'Account Number', 'Username', 'Password', 'Address', 'Date Of Birth' (with a date picker icon), 'Phone', 'Email', and 'Balance'. There are also validation messages: 'Username Must Be From 4 - 32 Characters' and 'Password Must Be 6 - 32 Characters'. At the bottom of the form are two buttons: 'Add' (blue) and 'Reset' (red). The interface includes a top navigation bar with 'Home', 'Administration', and 'Report' links, and a user profile dropdown for 'Admin'. The footer contains a 'CONTACT' section with the text 'We Are There For You' and a chat icon.

To view Add Transaction, the admin clicks on Add Transaction link:

The screenshot shows the 'ADD TRANSACTION' form in the CodeeBank admin interface. The form is titled 'ADD TRANSACTION' in blue text. It contains several input fields: 'Beneficial Account No', 'Beneficial Account Name', 'Bank Name' (with a dropdown menu showing 'BIDV'), 'By Account No', 'By Account Name', 'Amount', and 'Status'. At the bottom of the form are two buttons: 'Add' (blue) and 'Reset' (red). The interface includes a top navigation bar with 'Home', 'Administration', and 'Report' links, and a user profile dropdown for 'Admin'. The footer contains a 'CONTACT' section with the text 'We Are There For You' and a chat icon.

Clicking on Report to expand Account Report and Transaction Report:



Account Report Page:

The screenshot shows the 'ACCOUNT REPORT' page in CodeeBank. The page has a dark blue header with the CodeeBank logo, navigation links (Home, Administration, Report), and a user profile icon labeled 'Admin'. Below the header, the title 'ACCOUNT REPORT' is centered. A search bar with the placeholder text 'Search By Account Number' and a 'Search' button is present. Below the search bar is a table with 10 columns: No., Account Number, Name, Password, Address, Date Of Birth, Phone, Email, Balance, and two empty columns. The table contains 4 rows of data. At the bottom of the page, there is a dark grey footer with the text 'CONTACT We Are There For You' and a small icon.

| No. | Account Number | Name | Password | Address | Date Of Birth | Phone | Email | Balance | | |
|-----|----------------|------------------------|----------|---------|---------------|------------|------------------------|-----------|----------------------|------------------------|
| 1 | 12345678912 | Phuong An | 12345678 | Hà Nội | 2021-03-03 | 0974207398 | Vuthaoly28@Gmail.Com | 100000000 | Edit | Delete |
| 2 | 123456789123 | Ngoc Anh | 12345678 | Hà Nội | 2021-03-31 | 0974207398 | Vuthaoly28@Gmail.Com | 100000000 | Edit | Delete |
| 3 | 123456789123 | Anphuong2605@Gmail.Com | 12345678 | Hà Nội | 2021-03-10 | 0974207398 | Vuthaoly28@Gmail.Com | 1200000 | Edit | Delete |
| 4 | 12345678912 | 1801040169 | 12345678 | N/A | 2021-03-11 | 0387782469 | Anphuong2605@Gmail.Com | 565765765 | Edit | Delete |

Edit an account page:

[Home](#)
[Administration](#)
[Report](#)

Admin

EDIT ACCOUNT

Account Number

Password

Username

Address

Date Of Birth

Phone

Email

Save

CONTACT
We Are There For You

Transaction Report page:

[Home](#)
[Administration](#)
[Report](#)

Admin

TRANSACTION REPORT

Search By Account Number

| No. | TransactionId | Beneficial Account No | Beneficial Account Name | Bank Name | By Account No | By Account Name | Date | Amount | Status | | |
|-----|--------------------------|-----------------------|-------------------------|-----------|---------------|-----------------|---------------|--------|---------|----------------------|------------------------|
| 1 | 6055dcc0aafa452cc43655bc | 43809482343 | P | BIDV | A | 4534535346 | 1616239808974 | 100000 | Pending | Edit | Delete |
| 2 | 6055dea5aafa452cc43655bd | | | BIDV | | | 1616240293582 | | | Edit | Delete |
| 3 | 6055dea9aafa452cc43655be | | | BIDV | | | 1616240297189 | | | Edit | Delete |
| 4 | 6055deaaaafa452cc43655bf | | | BIDV | | | 1616240298225 | | | Edit | Delete |
| 5 | 6055f213aafa452cc43655c1 | | | BIDV | | | 1616245267051 | | | Edit | Delete |
| 6 | 6055f216aafa452cc43655c2 | 43809482343 | | BIDV | | | 1616245270905 | | | Edit | Delete |
| 7 | 6055f23aaafa452cc43655c3 | 43809482343 | P | BIDV | A | 4534535346 | 1616245306381 | 100000 | Pending | Edit | Delete |

CONTACT
We Are There For You

Edit transaction page:

CodeeBank Home Administration Report Admin

EDIT TRANSACTION

| | |
|-----------------------|-------------------------|
| Beneficial Account No | Beneficial Account Name |
| 43809482343 | |
| Bank Name | By Account No |
| BIDV | A |
| By Account Name | Status |
| 4534535346 | status |

Save

CONTACT
We Are There For You

4. Conclusion

The project work was done to see how user interface design can be benefited to create a usable design. Basic design with common technique is the key point to make users comfortable when using this web application.