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**CodeeBank**

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**Bank Management System  
Software description**

**Version 1.0**

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## Revision History

Date	Version	Description	Author
10/03/2021	1.0	Final Draft	An Thị Phương

## I. Introduction

Bank Management System is a web application for managing customers' account and transactions in a bank. In this project, we tried to build a working software and cover some basic functionalities as a financial application.

The main purpose of this software is creating friendly bank environment for customers to perform banking tasks. To be specific, with two main actors concerned, that are Admin and User, the system provides an access to the customer to create an account, deposit money, make a transaction, view transaction logs, edit profile. Regarding to Admin, what a Admin can do in this software are manage user's accounts, manage transactions.

The target users we want to focus to use this software are bank managers and people who are interested in saving and transferring their money. With the user friendly, basic functions and ensuring safety we want to satisfy our customers and encourage them to use this application.

## II. Details

### 1. Main components

In the software, there are two main components: bank system front-end (user space) and back-end (admin space).

#### 1.1. In the user space, a user can:

- Register an account if he is a new user otherwise he can login if he already has an account.
- View book transfer report
- View balance
- Transfer money
- View transaction report
- View/edit profile including change password

#### 1.2. In the admin space, the admin can:

- Manage user's account:
  - Add a new account
  - View all user accounts: Search users by account number
  - Edit account
  - Delete account
- Manage transaction:
  - Add a transaction

- View all transactions: Search transactions by account number
- Edit transaction
- Delete transaction
- View/edit profile including change password

1.3. Below are some typical user scenarios:

1.3.1. [Create an account](#)

A customer goes to the Bank website, in the home page and he clicks Sign up icon on the right of the navigation bar. The Create a new account page will appear for user to fill in all required information such as: account number, full name, phone number, email, address, password and confirm password and then click Create a new account to send information to database.

Some notes when creating an account:

- The customer need to ensure that the input in password is the same with confirm password and it has at least 8-character digits.
- Full name has no special character such as: \*, /, %, #, ...

The information is verified and add to bank database by admin.

1.3.2. [Sign In](#)

If a customer already has an account, in the home page, he clicks Sign in icon on the right and he is navigated to the Sign In page. In the page, the customer must enter correct username and password to go into his user space in the bank. In the case the customer forgets password, if he enters correct account number, email, and phone number, he can sign in to the system.

1.3.3. [View book transfer report and view balance](#)

A customer can check deposit history and also view the money left in his account after login to bank account. The balance always appears in the navigation bar. To view deposit history, the customer clicks on the Fund Transfer Report field in the dropdown menu of Report. After that, the system automatically navigates to the Book Transfer Report page.

1.3.4. [Make a transaction](#)

To make a transaction, a customer need to sign in to system first and choose Fund Transfer area in the navigation bar to navigate Fund Transfer page. In this page, the customer provides correct beneficial account number, bank name and amount of money, then clicks button send to conduct the transaction. If he has enough balance in his account, the transaction will be conducted otherwise the system will raise an error to inform that the transaction is not completed due to not enough money in the account.

If the money is transferred to the beneficial account, the successful message is shown in the page to notice the customer.

#### 1.3.5. [View transaction report](#)

By clicking Fund Transfer Report link in the dropdown menu of Report, the history of transaction that the customer made will be shown in Fund Transfer Report page.

#### 1.3.6. [Edit profile](#)

After sign in to the system, a customer can update their profile by click My Profile area in the dropdown menu in User name field on the right of the navigation bar. In the My Profile page, the customer can edit all information like username, phone number, email, address, upload profile picture and even change password. When changing password, the customer need to confirm password by entering the same value.

## 2. [Detailed scenarios for each of the features](#)

The last part is detailed scenarios for each feature to help user know how to interact with the User Interface (UI).

In the home page:

+ In the navigation bar:

- The user clicks on logo or Home link to refresh Home Page.
- 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. 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 forget password, they click on the Forget Password link to need helps from system.

+ 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.

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.
- + Fund Transfer Report page where users can review all transactions, they can search transactions by transactions type and amount of money.
- + Book Transfer Report page in which users can check deposit history, they also can search transaction by transaction type and amount of money.
- + The account balance is always shown in the navigation bar whenever users sign in successfully.
- + On the right side of the navigation bar, user can click My Profile to view or edit their profile or click Sign out to logout of the system.

### III. Conclusion

The scope of the project is only focusing on transaction to make any transactions conducted successfully with high safety. In addition, the Bank Management System has not much functions and complex features, we hope that any customers can use this software without confusing.