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Course: Web technology

Project: Bank Accounts Management System

Bank Accounts Management System Documentation

1. Introduction:
   The Bank Accounts Management System is a software application designed to automate various banking operations, streamline administrative tasks, and enhance customer service in a bank or financial institution. It provides a centralized platform for managing customer accounts, transactions, deposits, and other banking activities efficiently.

2. Features:
   The Bank Management System typically includes the following features:

a. Customer Management: The system allows the bank to store and manage customer information, including personal details, account details, transaction history.

b. Account Management: It enables the creation, modification, and deletion of customer accounts. The system supports various types of accounts such as savings, current, check, and recurring deposit accounts.

c. Transaction Processing: The system facilitates the processing of various types of transactions, including deposits, withdrawals, fund transfers, and bill payments. It ensures accurate and secure transaction handling.

d. Reporting and Analytics: The system generates reports and provides data analytics capabilities for better decision-making. It includes reports on account balances, transaction summaries.

e. Security and Access Control: The system incorporates robust security measures to protect sensitive customer data. It allows role-based access control to ensure that only authorized personnel can perform specific tasks.

3. System Architecture:
   The Bank Management System is typically built using a multi-tier architecture, comprising the following layers:

a. Presentation Layer: This layer includes the user interface components through which bank staff and customers interact with the system. It is a web-based interface.

b. Application Layer: This layer contains the business logic and processing components of the system. It handles user requests, performs validations, and coordinates data retrieval and storage.

c. Data Layer: This layer manages the storage and retrieval of data from a database system. It ensures data integrity, security, and efficient access.

4. Technology Stack:
   The Bank Accounts Management System can be developed using various technologies, depending on the specific requirements and preferences. Common technologies include:

a. Programming Languages: Java.

b. Web Development: HTML, CSS, bootstrap.

c. Database: Relational databases such as MySQL.

d. Security: Encryption algorithms, secure protocols (HTTP), and authentication mechanisms.

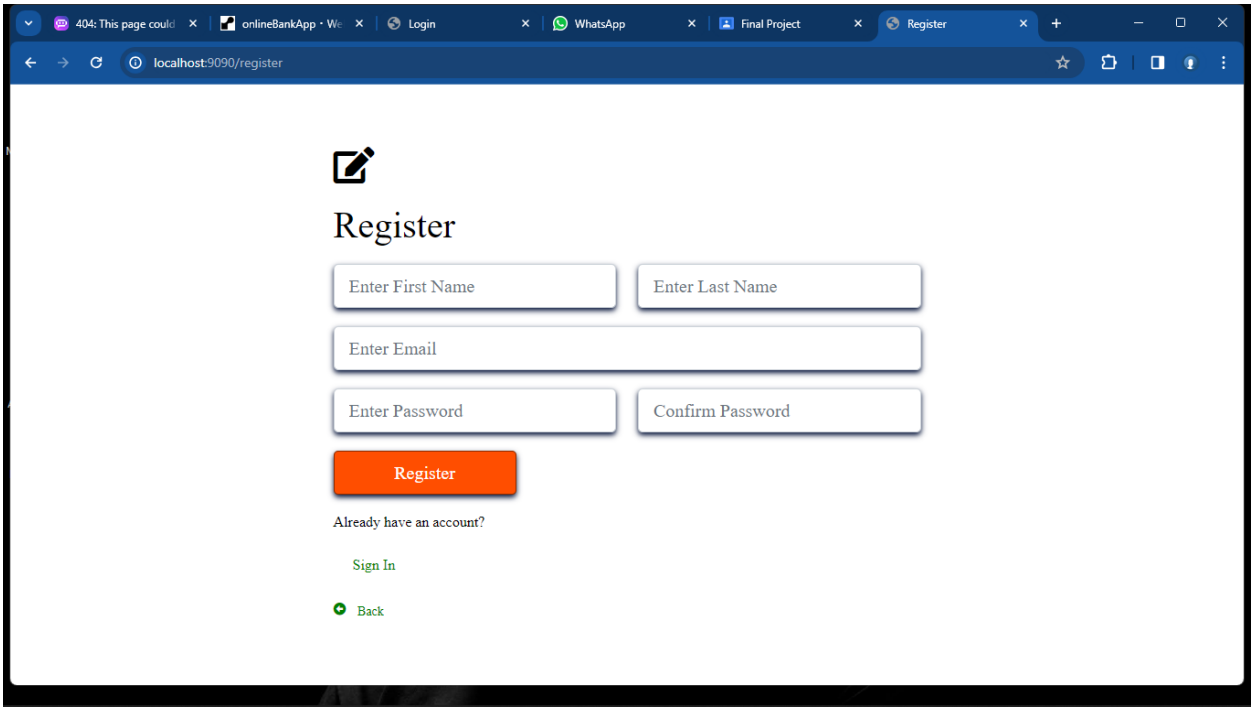
5. Deployment and Maintenance:
   The system is deployed is deployed using render. Regular maintenance and updates are necessary to ensure the system's performance, security, and compatibility with evolving technologies.

6. Conclusion:
   The Bank Accounts Management System plays a crucial role in improving operational efficiency, customer service, and data management in banks and financial institutions. It automates various tasks, reduces manual effort, and enhances overall productivity. By leveraging technology, the system empowers banks to provide better services to their customers and stay competitive in the rapidly evolving banking industry.

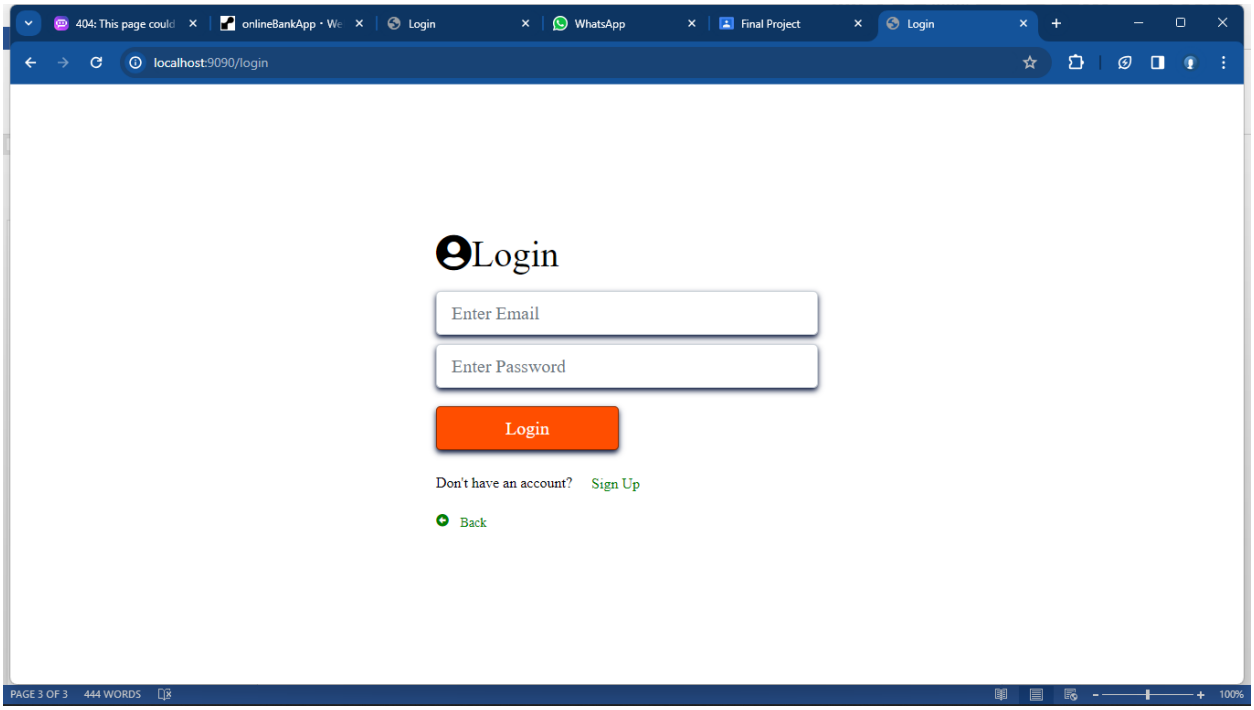
7. Project UI,

Project UI

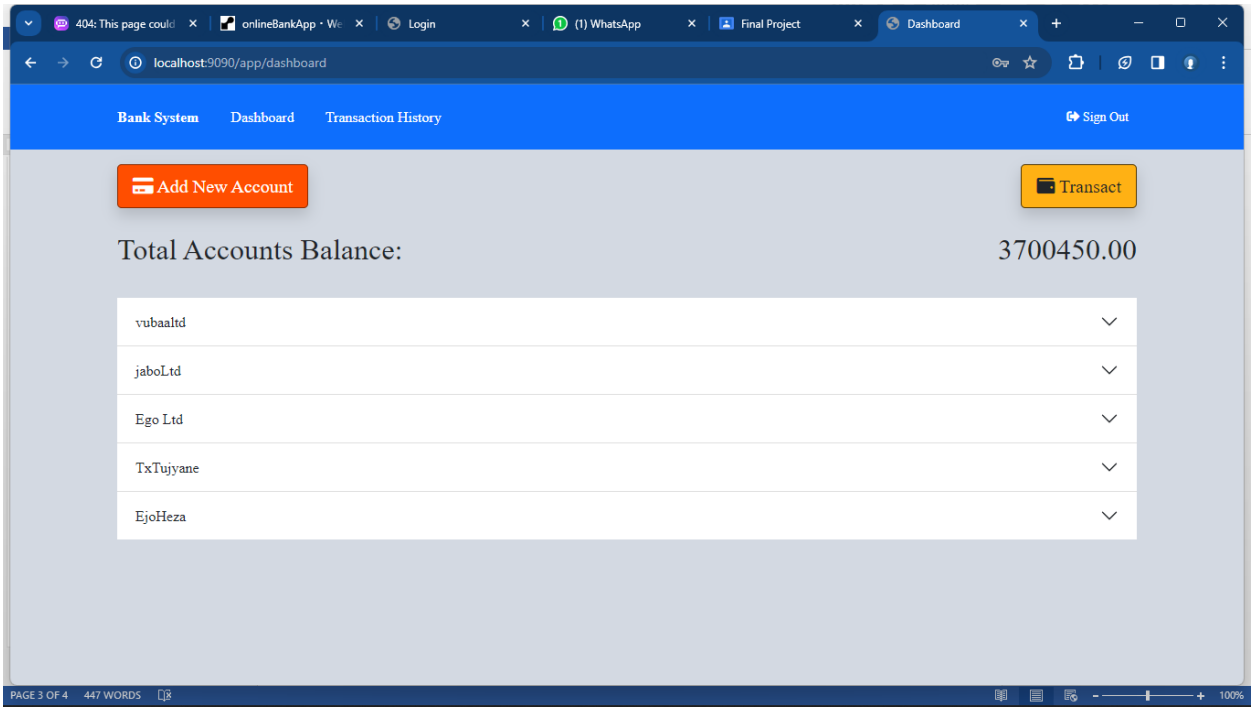
1.Signup-page



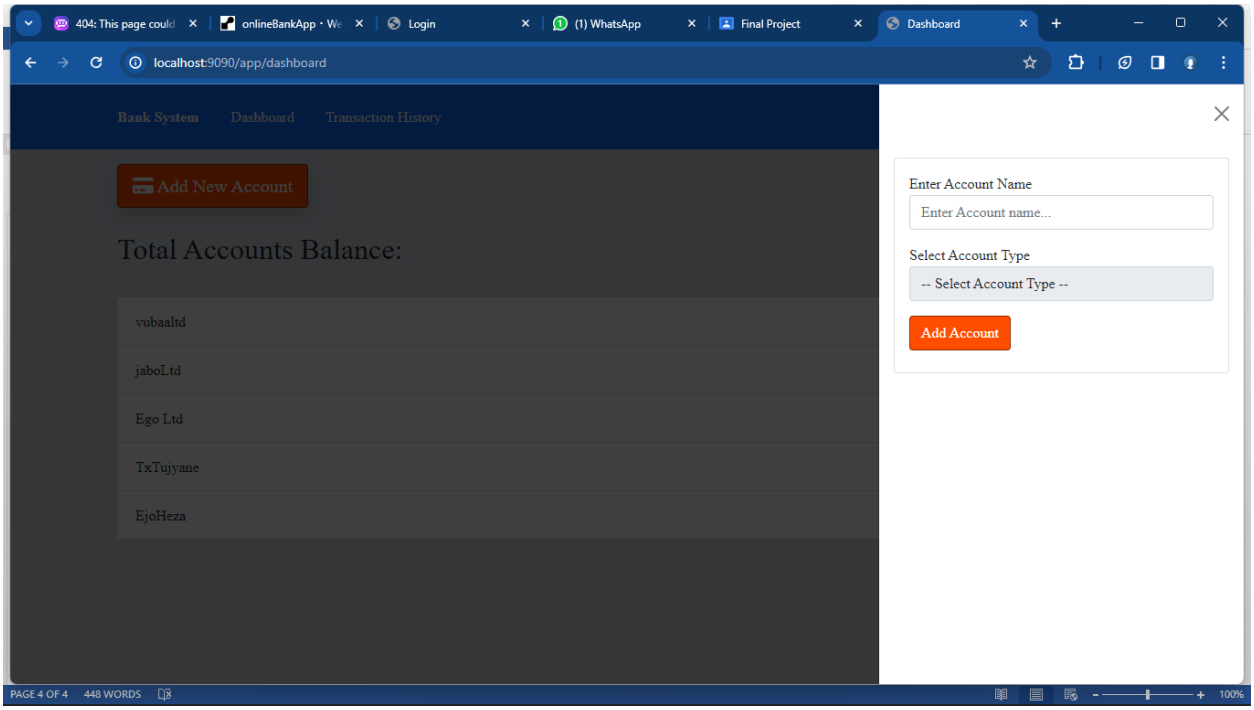
2.Sign-in Page



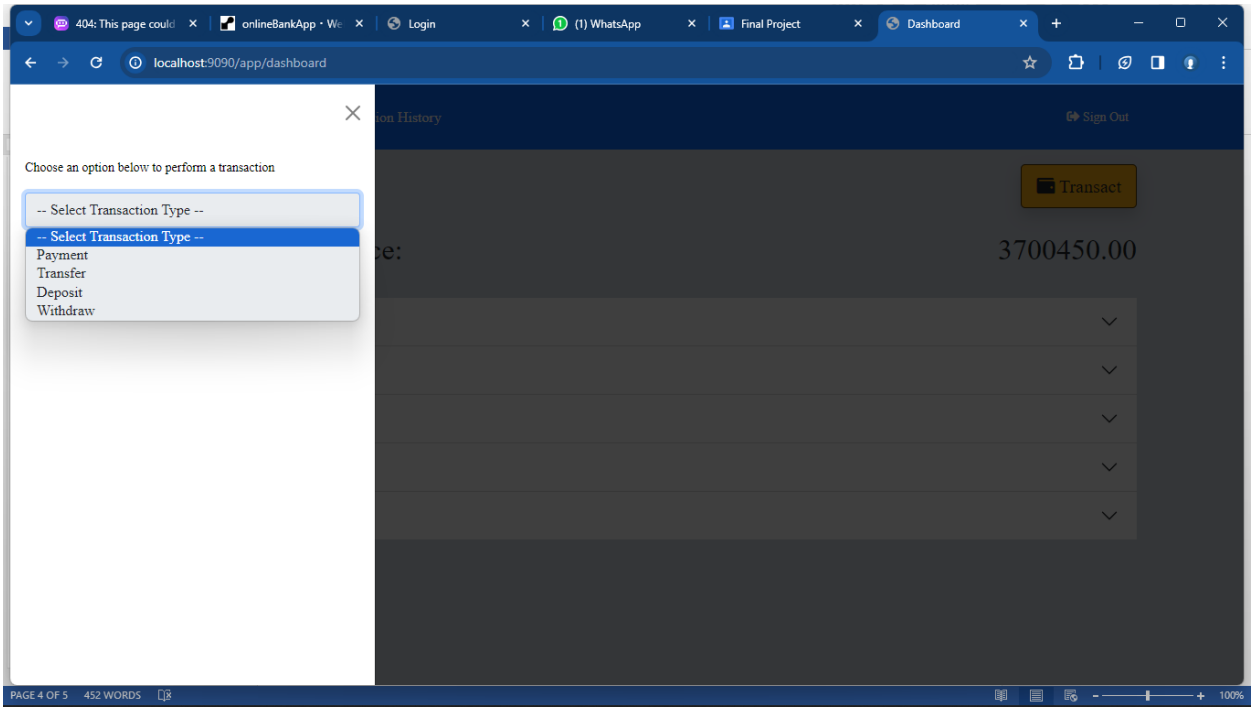
3. Dashboard Page



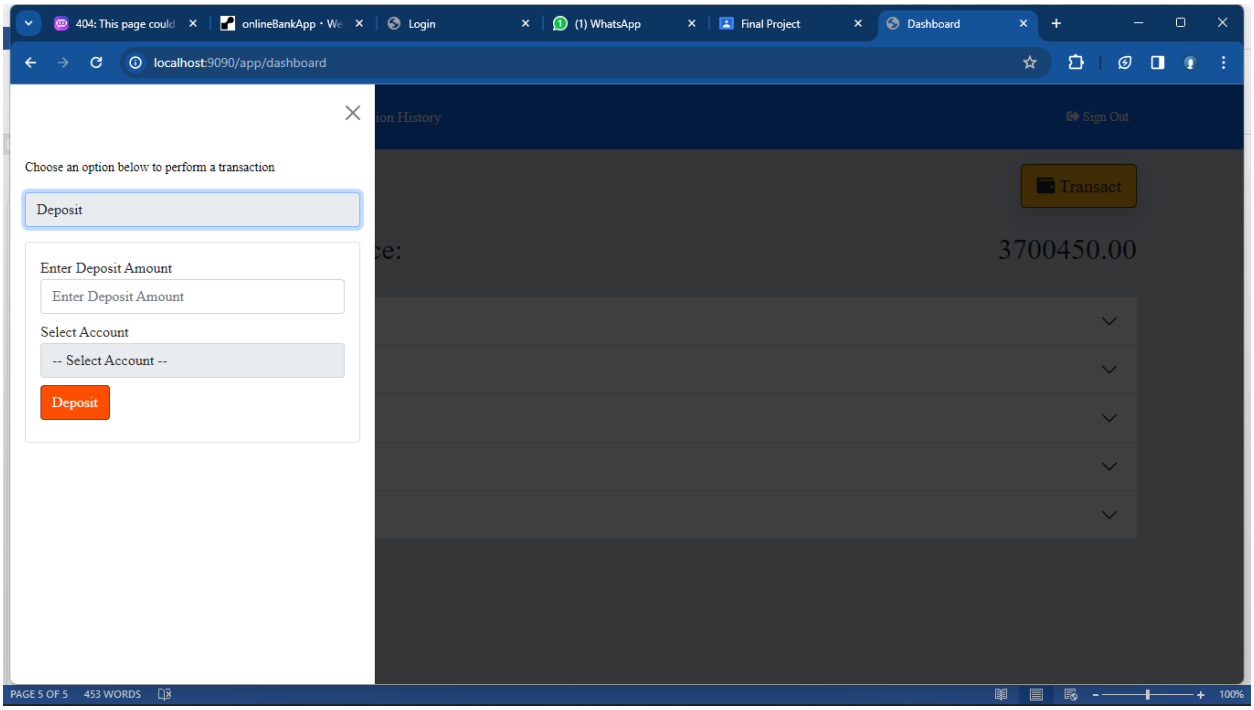
4. Account Page



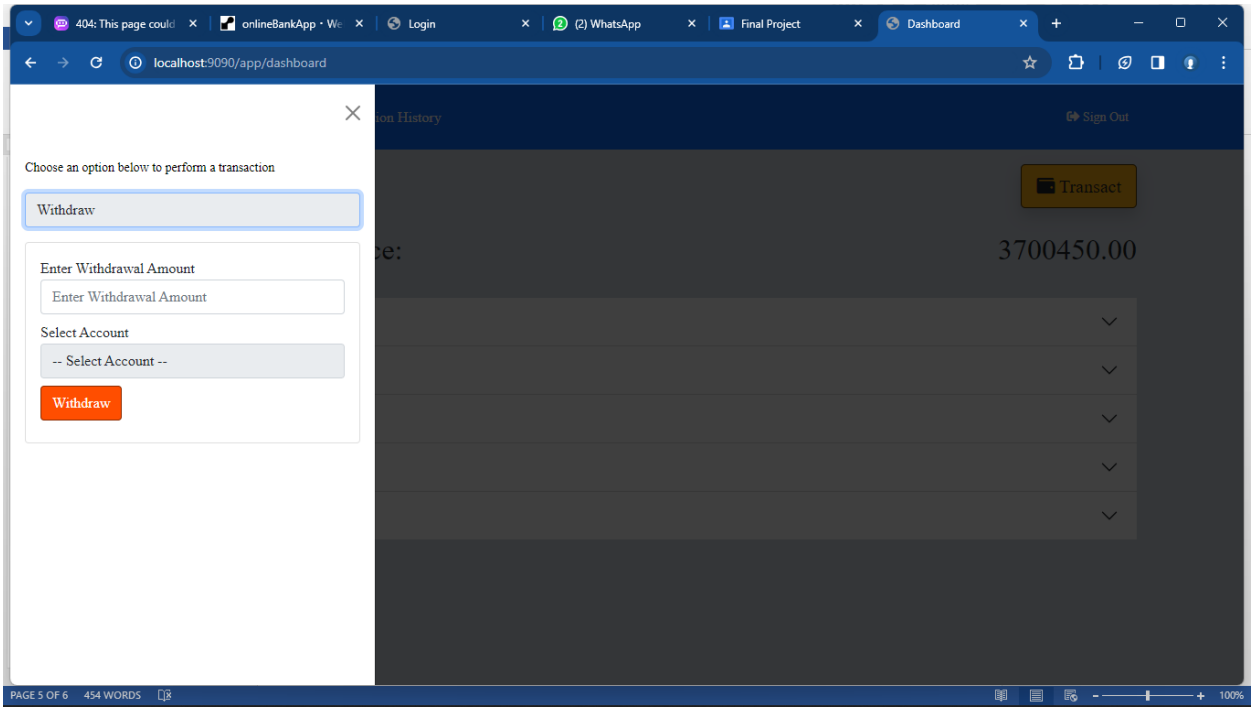
5.TransactactionPage (deposits,transfer,withdraw,payment).



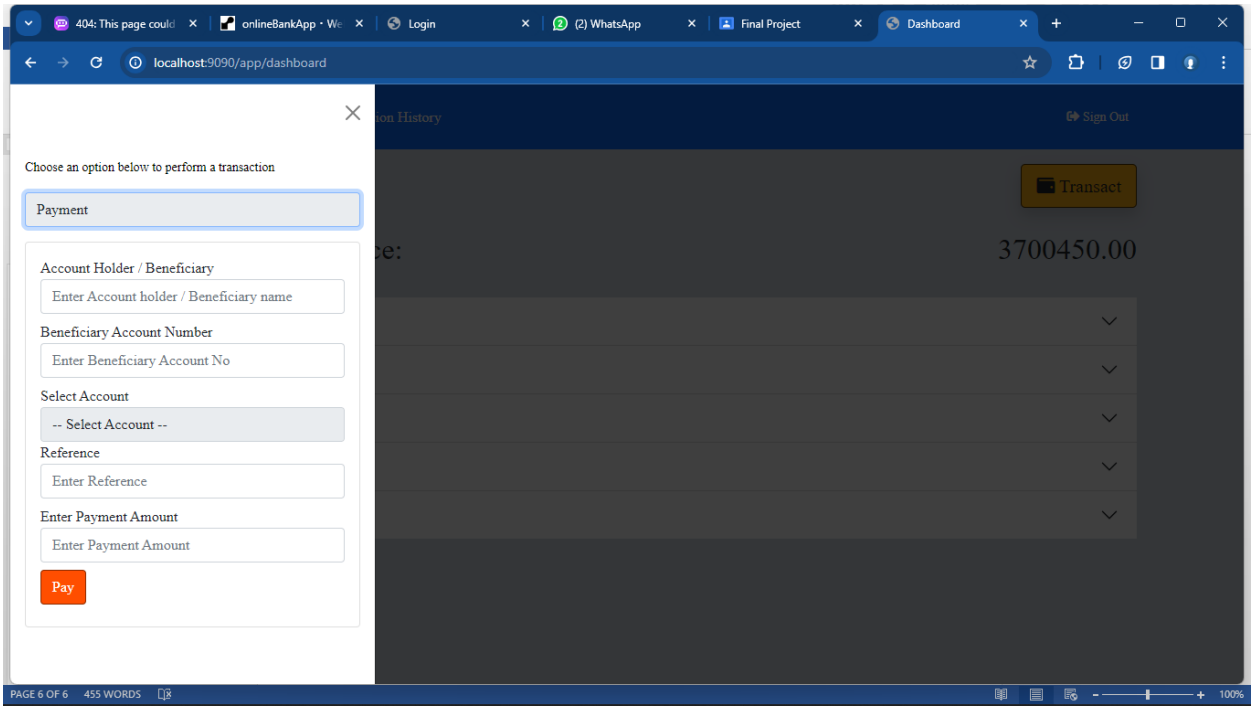
I.DepositPage



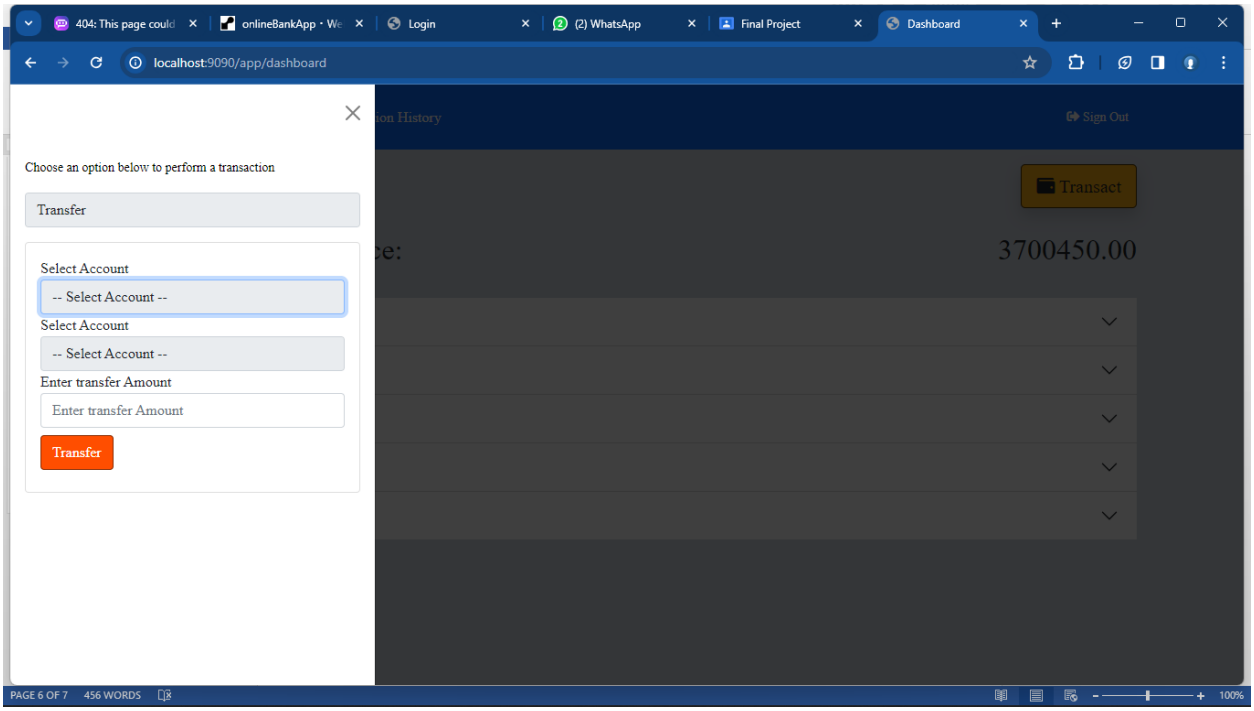
II.WithdrawPage



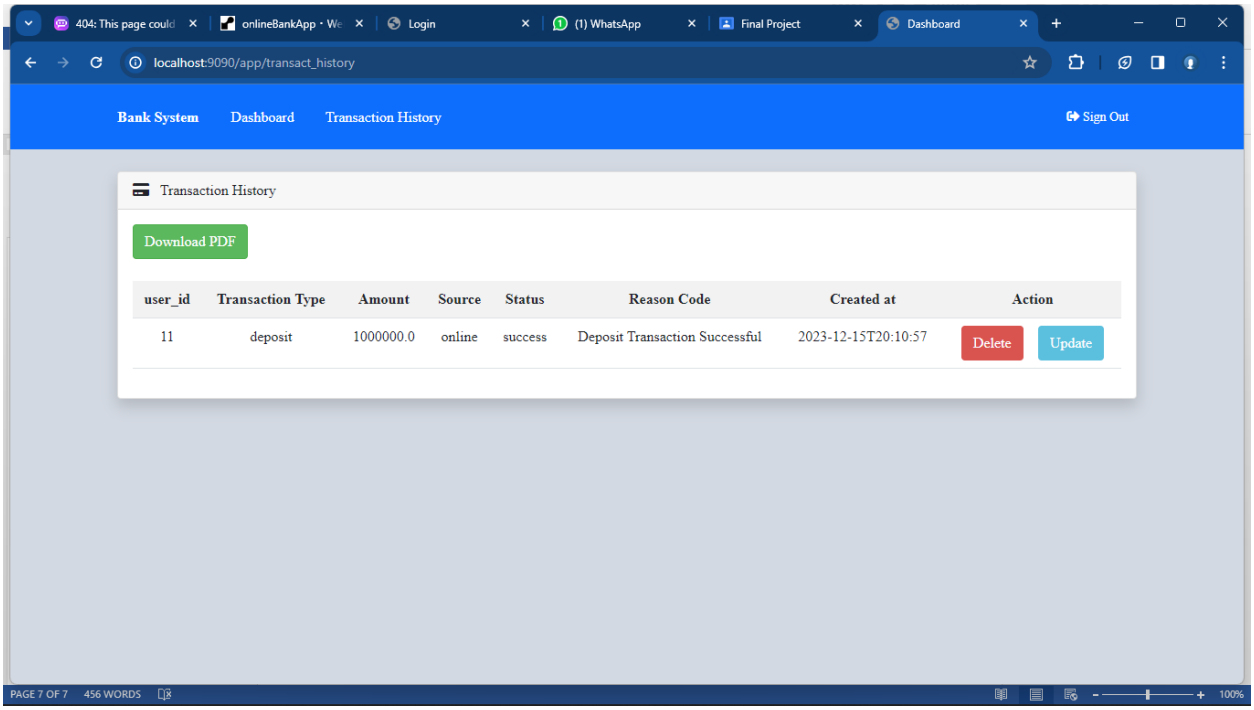
III.PaymentPage



IV.TransaferPage

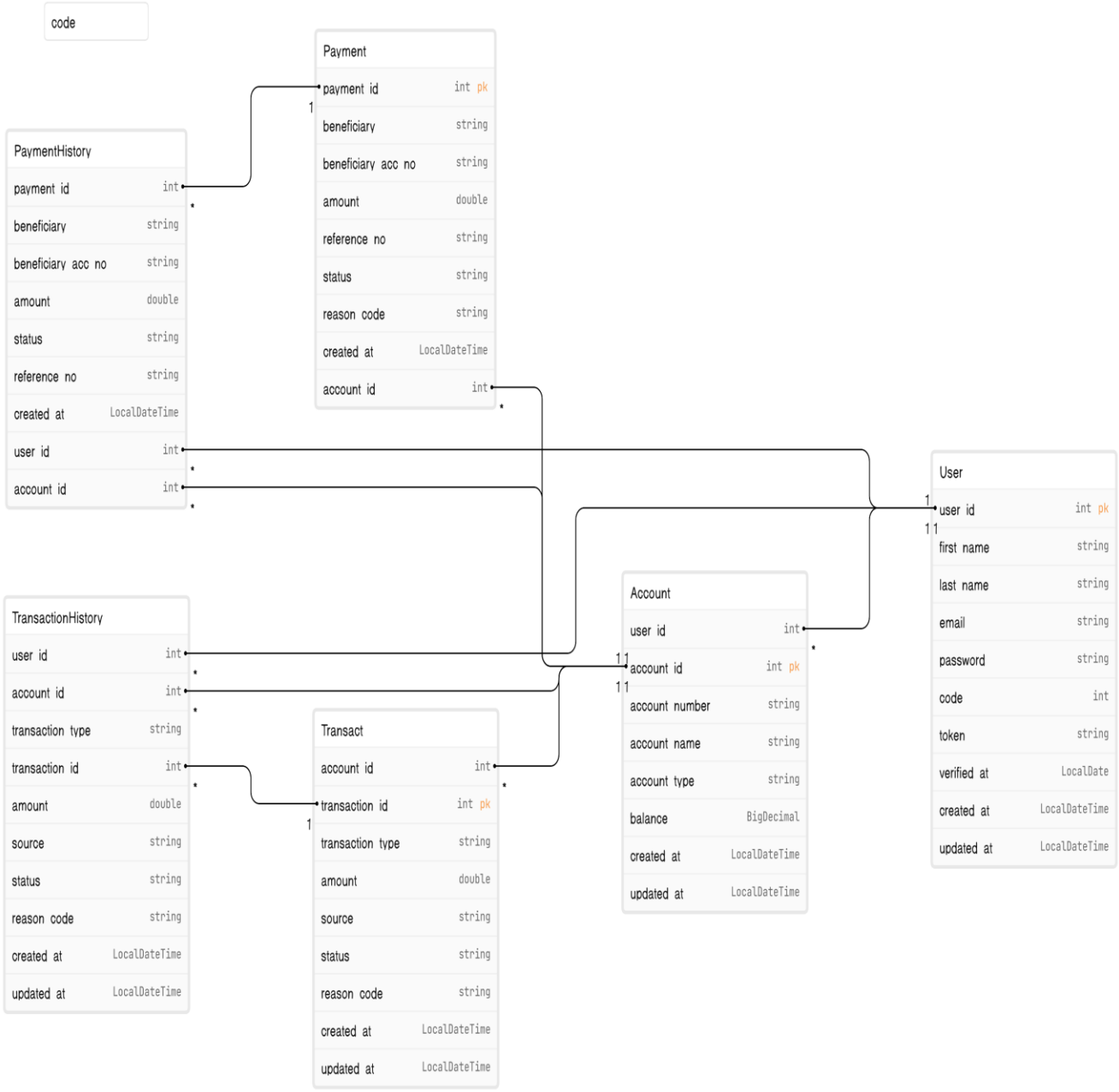


V.DisplayTransactionPage



Database Diagram

Financial Transactions



Links:

GitHub Account: https://github.com/jaboyvan/onlineBankApp

Project URL: https://onlinebankapp-uooj.onrender.com