BANKING APP

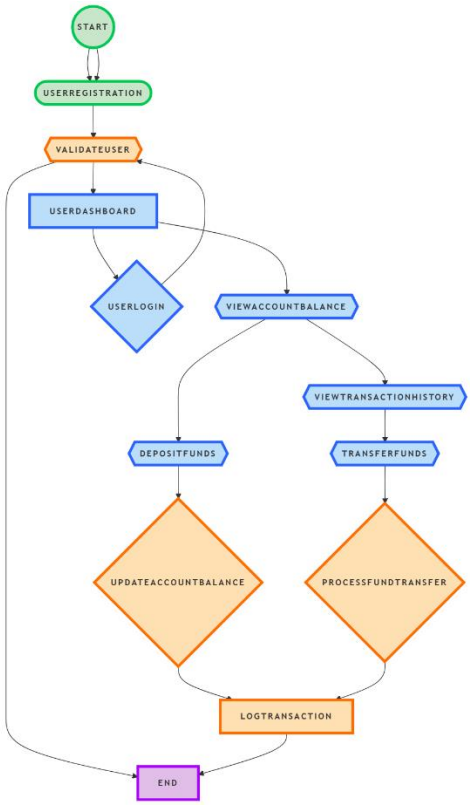
OVERVIEW:

A Banking Application is a digital platform that enables users to manage their finances conveniently from their smartphones or computers. It offers a range of services such as viewing account balances, checking transaction histories, and managing account details. Users can transfer money between accounts or to external recipients, pay bills, and schedule recurring payments. The app also allows customers to locate nearby ATMs or bank branches, apply for loans, and monitor loan statuses. With robust security features, the application ensures safe and real-time banking, making it easy for customers to access and control their finances at any time.

Explanation of the Flow Diagram

1. **Start**: The process begins.
2. **User Registration**: New users can register for an account.
3. **User Login**: Existing users can log in to their accounts.
4. **Validate User**: The system checks the credentials provided by the user.
5. **Fetch User Data**: If the login is successful, the system fetches user data.
6. **User Dashboard**: The user is directed to their dashboard, where they can perform various actions.
7. **View Account Balance**: Users can view their account balance.
8. **View Transaction History**: Users can view their past transactions.
9. **Transfer Funds**: Users can initiate a fund transfer.

10. **Deposit Funds**: Users can deposit money into their account.
11. **Withdraw Funds**: Users can withdraw money from their account.
12. **Process Fund Transfer**: The system processes the fund transfer request.
13. **Update Account Balance**: The system updates the account balance after transactions.
14. **Log Transaction**: The system logs all transactions for record-keeping.
15. **End**: The process ends.



Front-end URLs

Front-end URLs are not typically provided for a banking application since the application is usually a single-page or multi-

page web application running on a web server. However, I can provide you with a list of typical pages or features that you might find in a banking application's front-end:

1. Homepage: A landing page that introduces the application and provides navigation to other features.
2. Login: A page where users can log in to their accounts.
3. Register: A page where new users can register for an account.
4. Dashboard: A page where users can view their account balance, transaction history, and initiate transactions.
5. Accounts: A page where users can view their account details and manage their accounts.
6. Transfers: A page where users can initiate fund transfers.
7. Deposits: A page where users can deposit money into their accounts.
8. Withdrawals: A page where users can withdraw money from their accounts.
9. Settings: A page where users can manage their account settings and preferences.
10. Help: A page where users can find help and support resources.

ER Diagram

Here's a textual representation of an ER diagram based on the flowchart and the functionalities of the banking application:

Entities and Attributes

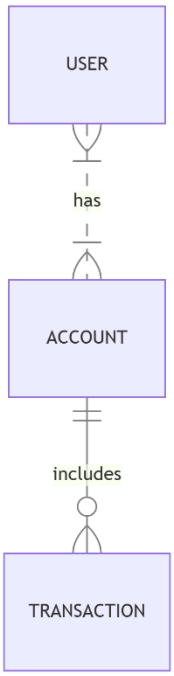
1. **User**
   - **UserID** (Primary Key)
   - **Name**
   - **Email**
   - **Password**

- **CreatedAt** (Timestamp)

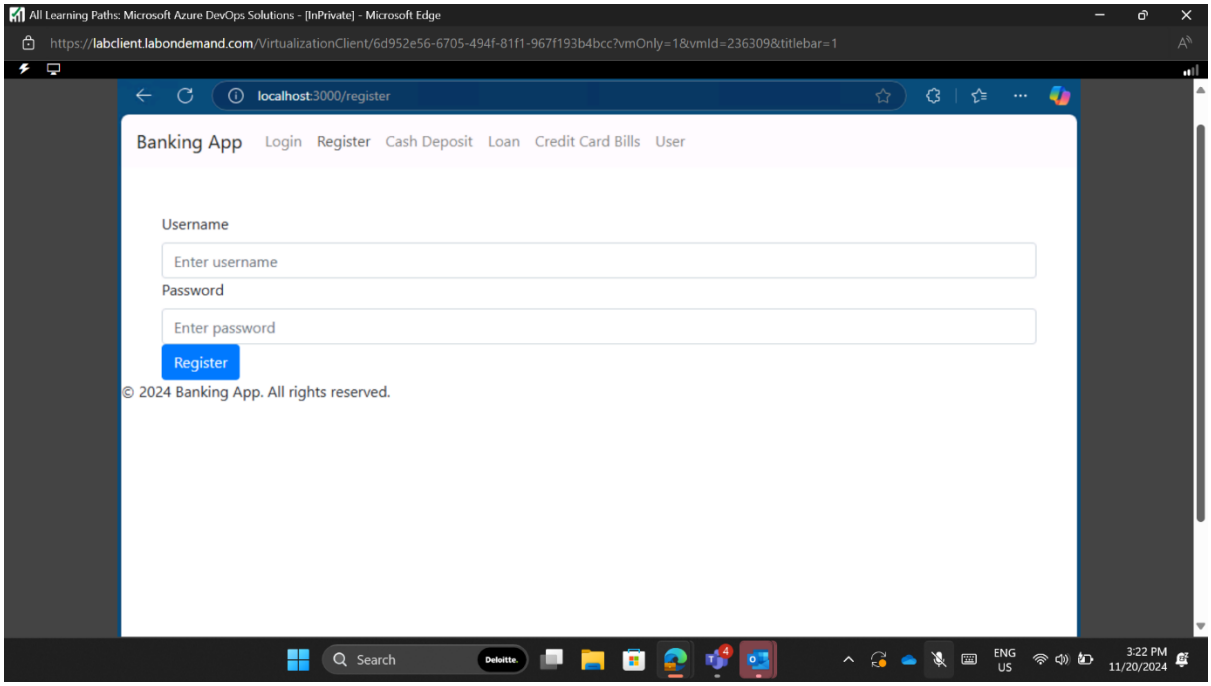
2. **Account**
    - **AccountID** (Primary Key)
    - **UserID** (Foreign Key)
    - **AccountType** (e.g., Savings, Checking)
    - **Balance**
    - **CreatedAt** (Timestamp)
3. **Transaction**
    - **TransactionID** (Primary Key)
    - **AccountID** (Foreign Key)
    - **TransactionType** (e.g., Deposit, Withdrawal, Transfer)
    - **Amount**
    - **Timestamp**

Relationships

- **User to Account**: One-to-Many (One user can have multiple accounts)
- **Account to Transaction**: One-to-Many (One account can have multiple transactions).



Screenshots of Banking App


All Learning Paths: Microsoft Azure DevOps Solutions - [InPrivate] - Microsoft Edge
https://labclient.labondemand.com/VirtualizationClient/6d952e56-6705-494f-81f1-967f193b4bcc?vmOnly=1&vmId=236309&titlebar=1
localhost:3000/register
Banking App
Login
Register
Cash Deposit
Loan
Credit Card Bills
User
Username
Enter username
Password
Enter password
Register
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Search
ENG
US
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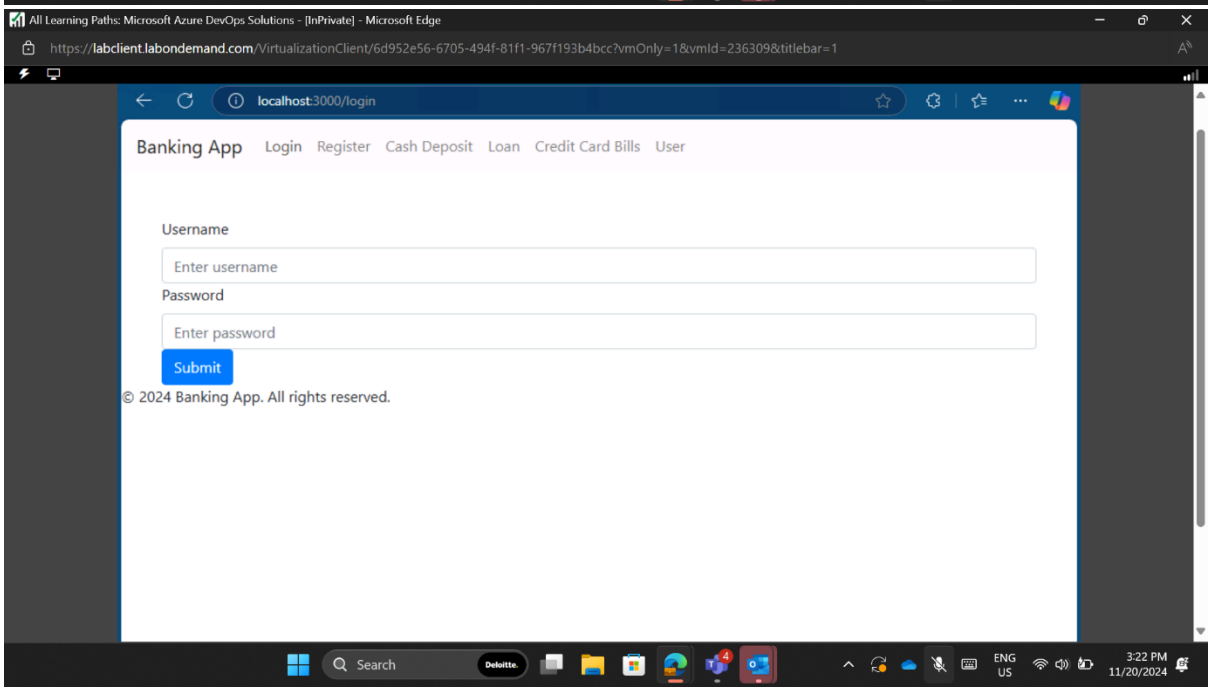
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https://labclient.labondemand.com/VirtualizationClient/6d952e56-6705-494f-81f1-967f193b4bcc?vmOnly=1&vmId=236309&titlebar=1
localhost:3000/login
Banking App
Login
Register
Cash Deposit
Loan
Credit Card Bills
User
Username
Enter username
Password
Enter password
Submit
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Search
ENG
US
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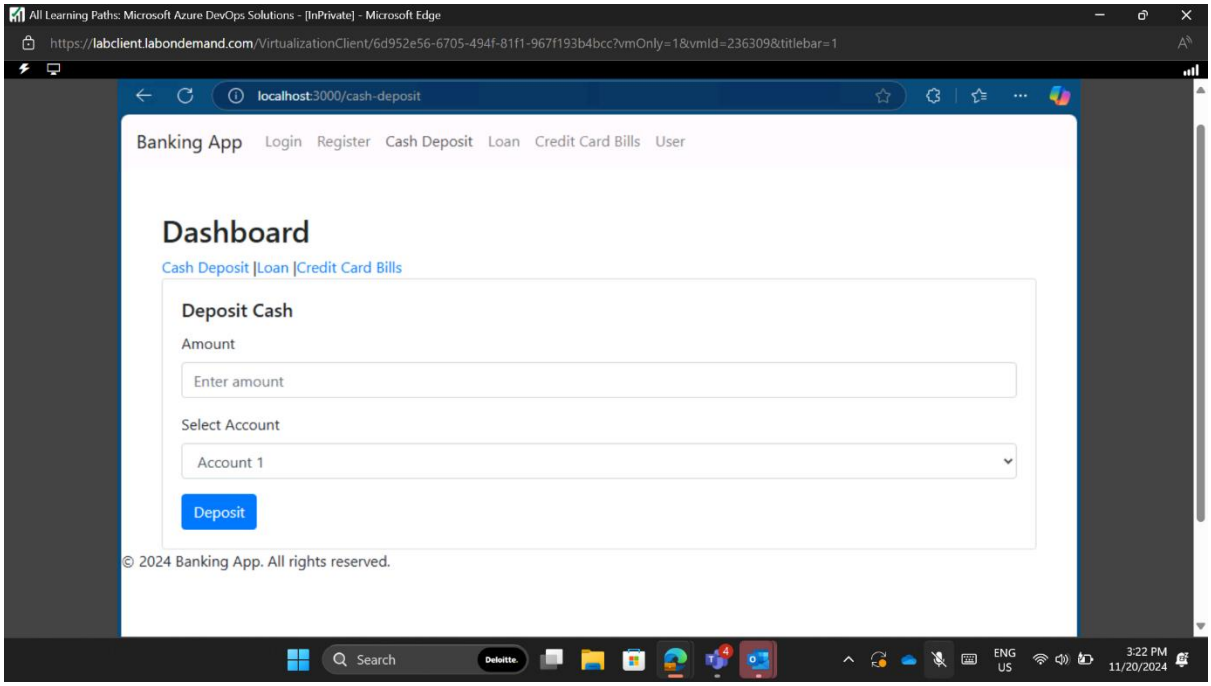
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https://labclient.labondemand.com/VirtualizationClient/6d952e56-6705-494f-81f1-967f193b4bcc?vmOnly=1&vmId=236309&titlebar=1
localhost:3000/cash-deposit
Banking App
Login
Register
Cash Deposit
Loan
Credit Card Bills
User
Dashboard
Cash Deposit |Loan |Credit Card Bills
Deposit Cash
Amount
Enter amount
Select Account
Account 1
Deposit
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Search
ENG
US
3:22 PM
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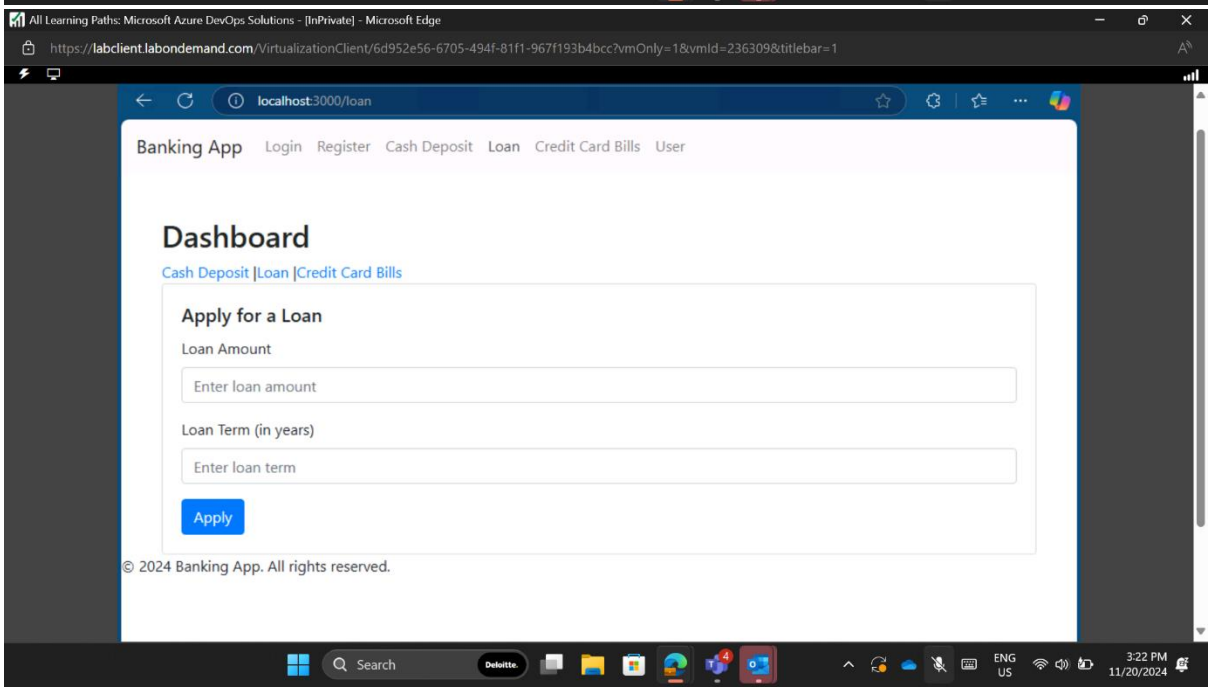
All Learning Paths: Microsoft Azure DevOps Solutions - [InPrivate] - Microsoft Edge
https://labclient.labondemand.com/VirtualizationClient/6d952e56-6705-494f-81f1-967f193b4bcc?vmOnly=1&vmId=236309&titlebar=1
localhost:3000/loan
Banking App
Login
Register
Cash Deposit
Loan
Credit Card Bills
User
Dashboard
Cash Deposit |Loan |Credit Card Bills
Apply for a Loan
Loan Amount
Enter loan amount
Loan Term (in years)
Enter loan term
Apply
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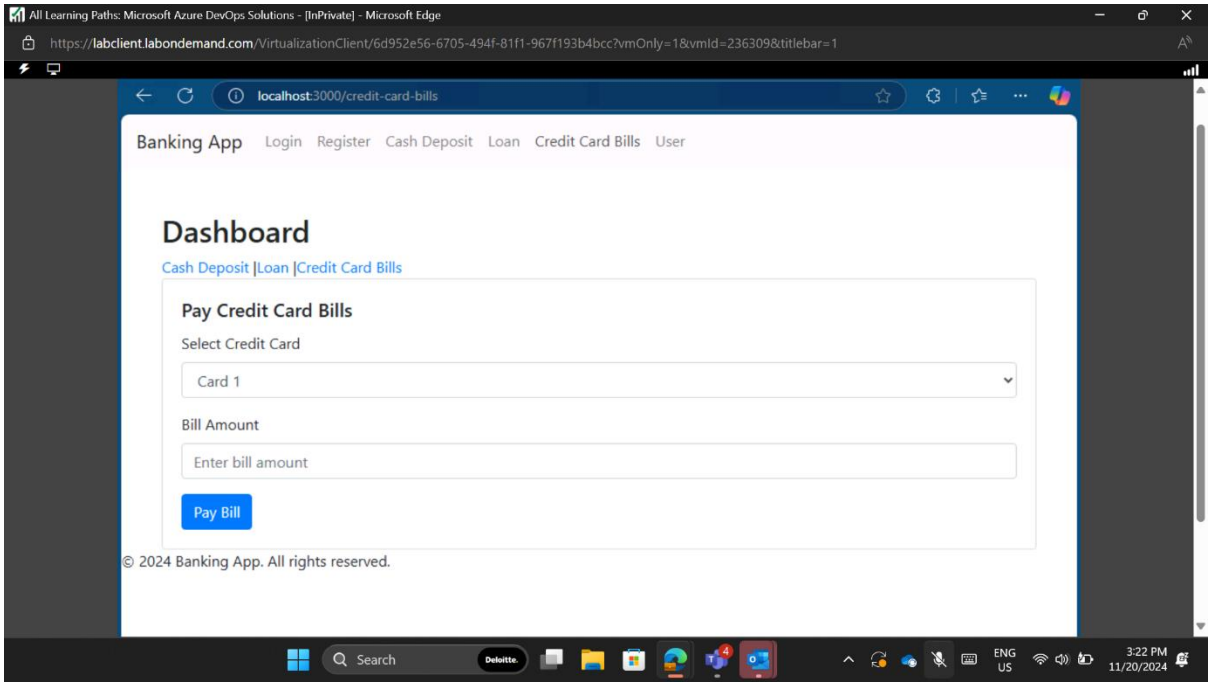
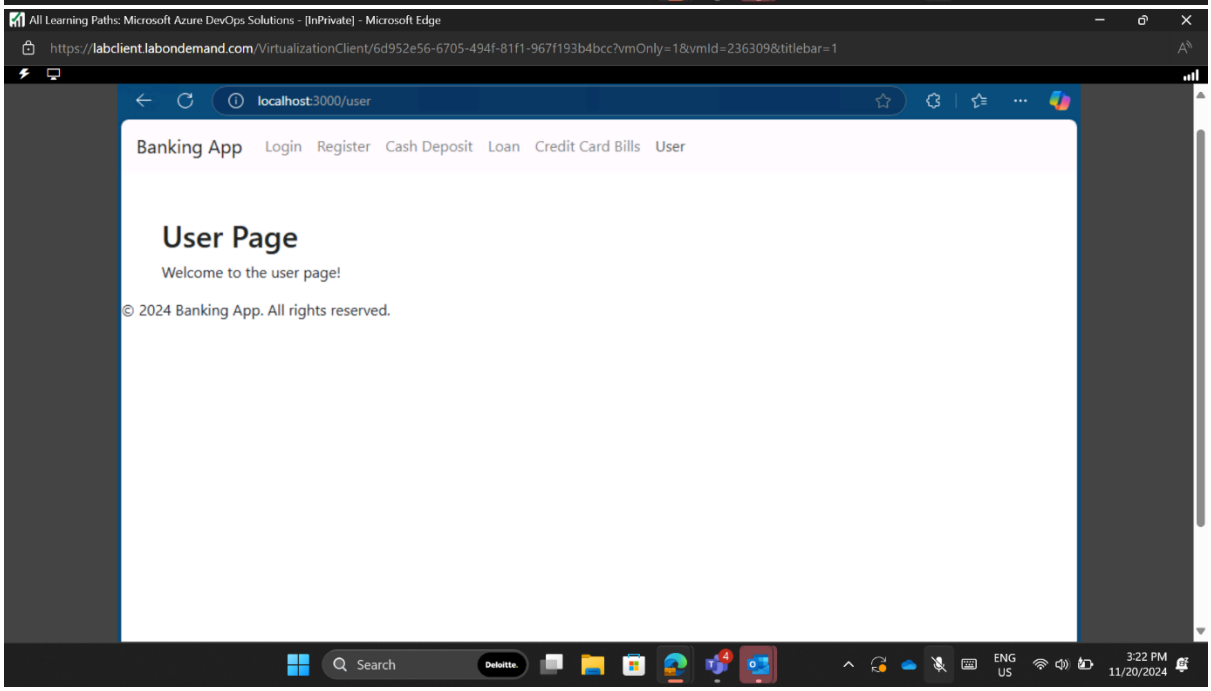
Search
ENG
US
3:22 PM
11/20/2024





Git hub Link :

https://github.com/Varunsai-mudiraj/Capstrone-project.git