

Trust US Bank

Banking Website

Project Description

Create a secure banking web application where users can create accounts, log in, and perform transactions such as deposits and withdrawals. Users can view their transaction history and account balance.

Key Features

- **User Authentication:**
 - Secure sign-up, login, and logout functionalities.
- **Account Management:**
 - View account details and current balance.
- **Transactions:**
 - Deposit funds into the account.
 - Withdraw funds from the account with balance checks.
- **Transaction History:**
 - Display a log of all deposits and withdrawals.
- **Profile Management:**
 - Allow users to update their personal information.

Technical Requirements

- **Frontend:**
 - Clean and intuitive UI using HTML and CSS.
 - Forms for registration, login, deposits, withdrawals, and profile updates.
 - Client-side validation with JavaScript regex for inputs like account numbers, amounts, email formats, etc.
- **Backend:**
 - Express.js server with RESTful API endpoints for all functionalities.
 - JSON file storage to manage user data and transaction records using the `fs` module.
 - Implement session management or token-based authentication for security.
- **Asynchronous Operations:**

- Use `async/await` for handling fetch requests and file operations.
- **Additional Features:**
 - Ensure secure handling of sensitive data (password hashing recommended).
 - Implement error handling for invalid transactions (e.g., insufficient funds).

Project Milestones

1. Setup and Authentication:

- Initialize the project and implement secure user registration and login.

2. Account Features:

- Develop account overview and balance display.

3. Transaction Handling:

- Implement deposit and withdrawal functionalities with validation.

4. Transaction History:

- Create a transaction log view for users.

5. Final Enhancements:

- Refine UI, ensure security measures, perform testing, and prepare for presentation.