

Task: Develop a Financial Management System

Description:

You are tasked with developing a Financial Management System using the CodeIgniter framework. The system will allow users to manage their accounts, perform various financial transactions, and view transaction history. Below are the detailed requirements and functionalities of the application:

1. User Authentication:

- Implement user authentication functionality, including registration and login.
- Ensure password hashing for security purposes.

2. Account Management:

- Users should be able to create new accounts with details such as account type (savings, current, etc.), initial balance, and any additional information.
- Provide functionality to edit account details, including account type and additional information.
- Users should have the option to close their accounts. Closing an account should transfer the remaining balance to another account or return it to the user.

3. Transactions:

- Implement the functionality to deposit funds into an account. Include validation to ensure only positive amounts are accepted.
- Users should be able to withdraw funds from their accounts. Include validation to check for sufficient balance.
- Implement the logic to add interest to accounts based on a predefined interest rate per day.
- Record all transactions (deposits, withdrawals, interest accruals) with details such as transaction type, amount, date, and account involved.

4. Balance Calculation:

- Ensure that account balances are correctly calculated and updated after each transaction, including interest accruals.

5. Transaction History:

- Provide users with the ability to view their transaction history, sorted by date.
- Include pagination for large transaction histories.

6. Error Handling and Validation:

- Implement robust error handling and validation throughout the application to handle scenarios such as insufficient funds, invalid inputs, etc.
- Display appropriate error messages to users for better usability.

7. User Interface:

- Design a user-friendly interface for the application, allowing users to navigate easily and perform tasks intuitively.
- Implement basic styling using CSS to enhance the user experience.