**Balance Management System: Test Desig**

**Table 1: Test Scenarios**

| **Scenario ID** | **Scenario Name** | **Scenario Steps** | **Success Criteria** |
| --- | --- | --- | --- |
| TS001 | Login | 1. Navigate to login page<br>2. Enter valid credentials<br>3. Click login button | User is successfully logged in |
| TS002 | Create Deposit | 1. Navigate to deposit page<br>2. Enter deposit amount<br>3. Submit deposit form | Deposit is successfully created and reflected in the balance |
| TS003 | View Deposit History | 1. Navigate to deposit history page | A list of previous deposits is displayed correctly |
| TS004 | View Current Balance | 1. Navigate to current balance page | Current balance is displayed correctly |
| TS005 | View Detailed Transaction Log | 1. Navigate to transaction log page | Detailed transaction log is displayed correctly |
| TS006 | View Closing Summary Transaction Log | 1. Navigate to closing summary log page | Closing summary transaction log is displayed correctly |
| TS007 | Debit Balance | 1. External system sends a debit request<br>2. Validate debit request<br>3. Update balance accordingly | Balance is debited correctly and transaction is logged |
| TS008 | Credit Balance | 1. External system sends a credit request<br>2. Validate credit request<br>3. Update balance accordingly | Balance is credited correctly and transaction is logged |

**Table 2: Database Entities**

| **Entity ID** | **Entity Name** | **Entity Usage** |
| --- | --- | --- |
| E001 | User | Stores user login and authentication details |
| E002 | Deposit | Stores information about deposits |
| E003 | Transaction Log | Stores detailed logs of all transactions |
| E004 | Balance | Maintains the current balance of the account |

**Table 3: Attributes**

| **Attribute ID** | **UI Name** | **Backend Name** | **DB Name** | **Attribute Type** | **Relevant Entities IDs** |
| --- | --- | --- | --- | --- | --- |
| A001 | Username | username | username | string | E001 |
| A002 | Password | password | password | string | E001 |
| A003 | Deposit Amount | deposit\_amount | deposit\_amount | decimal | E002 |
| A004 | Deposit Date | deposit\_date | deposit\_date | datetime | E002 |
| A005 | Transaction Type | transaction\_type | transaction\_type | string | E003 |
| A006 | Transaction Amount | transaction\_amount | transaction\_amount | decimal | E003 |
| A007 | Transaction Date | transaction\_date | transaction\_date | datetime | E003 |
| A008 | Current Balance | current\_balance | current\_balance | decimal | E004 |