Test Design Techniques

User Story : Transfer Funds with Validation

Title: Internal Fund Transfer Functionality

Description: As a user, I want to transfer funds between my accounts, and I want the system to show an error if I enter an invalid or nonexistent destination account number, so that I can ensure secure transfers.

Type: Functional

Test Cases:

1. Valid transfer between own accounts
2. Attempt transfer to an invalid/nonexistent account
3. Attempt transfer with insufficient balance
4. Boundary value test – transfer ₹0 and ₹1

Applied Test Design Techniques : Equivalence Partitioning (EP), Boundary Value Analysis and State Transition Technique

Equivalence Partitioning (EP)

1. I used to separate valid and invalid inputs for account and amount fields.

Equivalence Partitioning (EP)

Field	Valid	Invalid
Source Account	Active user-owned account	Closed/inactive/ nonexistent account
Destination Account	Active user-owned account	Invalid/nonexistent account (e.g., 999999999)
Transfer Amount	Amount > 0 and ≤ available balance	₹0, negative values, > available balance

Boundary Value Analysis (BVA)

1. I used to test behavior at edge of valid amount limits.

Boundary Value Analysis (BVA)- Transfer Amount

Invalid	Valid	Invalid
0	1, ..., 50,000	50,001

State Transition Technique (ST)

1. From Transfer Page:
   - Valid amount + valid accounts → ✅ Transfer proceeds → Confirmation Page
   - Invalid destination account → ❌ Stays on Transfer Page → "Account does not exist"
   - Insufficient balance → ❌ Stays on Transfer Page → "Insufficient balance"
   - ₹0 or negative → ❌ "Amount must be greater than zero"
   - ₹1 with valid data → ✅ Transfer successful