Test Design Techniques

User Story : Withdraw Funds with Validation

Title: Withdrawal Functionality Validation

Description: As a user, I want to withdraw funds up to ₹50,000 from my account so that I can access my money when needed, and I want to receive an appropriate error if I exceed my balance or the allowed withdrawal limit.

Type: Functional

Test Cases:

1. Withdraw a valid amount within balance and ₹50,000 limit
2. Try withdrawing more than ₹50,000
3. Try withdrawing more than available balance
4. Withdraw amount at exact limit boundary

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

Equivalence Partitioning (EP)

1. I used to test valid and invalid withdrawal input ranges.

Equivalence Partitioning (EP)		
Field	Valid	Invalid
Withdrawal Amount	1 – ₹50,000 and ≤ available balance	₹0, > ₹50,000, or > available balance

Boundary Value Analysis (BVA)

1. I tested behavior at critical withdrawal limits.

Boundary Value Analysis (BVA)- Withdrawal Amount

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

State Transition Technique (ST)

1. From Withdraw Page:
   - If amount ≤ ₹50,000 and ≤ balance → go to Confirmation Page → update balance
   - If amount > ₹50,000 → stay on Withdraw Page → show "Max withdrawal ₹50,000"
   - If amount > balance → stay on Withdraw Page → show "Insufficient funds"
   - If amount = ₹50,000 → transaction proceeds successfully