Test Design Techniques

User Story : Update Personal Information

Title: Personal Details Modification

Description: As a user, I want to update my personal information (e.g., address, phone number), so that my account details remain current and accurate.

Type: Functional

Test Cases:

1. Successful update of all valid fields
2. State Transition – Empty mandatory field
3. Invalid phone number format
4. Update with only one field changed

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 contact details.

Equivalence Partitioning (EP)

Field	Valid	Invalid
Address	Any non-empty alphanumeric address	Empty string
Phone Number	10-digit numeric (e.g., 9876543210)	Alphabetic input, fewer than 10 digits, empty
Email	Valid email format (e.g., user@test.com)	Missing @, domain, commas instead of dots, etc

Boundary Value Analysis (BVA)

1. Helpful in cases like phone number length.

Boundary Value Analysis (BVA)- Phone Number

Lower	Invalid	Valid
9	10	11

State Transition Technique (ST)

- From Profile Edit Page:
  - All valid fields → ✅ Save → Profile Updated → Confirmation message
  - Empty mandatory field → ❌ Stay on page → Show required field error
  - Invalid format (e.g., phone/email) → ❌ Show format-specific error
  - Partial update (e.g., only email) → ✅ Save → Only updated field reflects change