

TASK-9

Test Cases for Both Black Box Testing and White Box Testing

Aim:

The aim is to write the test cases for both Black Box Testing and White Box Testing of the Online Banking System.

Black Box Testing:

Black box testing focuses on verifying system functionality without viewing internal code. Below are sample black box test cases for an Online Banking System.

1. User Registration:

- Test Case: Register a new user with valid inputs.
- Expected Result: Registration successful.
- Pass/Fail: Pass
- Test Case: Register with missing or invalid details.
- Expected Result: Display error message.
- Pass/Fail: Pass

2. User Login:

- Test Case: Login with valid credentials.
- Expected Result: User dashboard displayed.
- Pass/Fail: Pass
- Test Case: Login with incorrect password.
- Expected Result: Error “Invalid credentials.”
- Pass/Fail: Pass

3. Fund Transfer:

- Test Case: Transfer funds with sufficient balance.
- Expected Result: Transaction successful.
- Pass/Fail: Pass
- Test Case: Transfer funds with insufficient balance.
- Expected Result: Display “Insufficient funds.”
- Pass/Fail: Pass

4. Account Details Retrieval:
 - Test Case: View account balance and transaction history.
 - Expected Result: Correct account details displayed.
 - Pass/Fail: Pass
 5. Bill Payment:
 - Test Case: Pay bill with correct details.
 - Expected Result: Payment confirmation displayed.
 - Pass/Fail: Pass
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White Box Testing:

White box testing ensures internal logic, algorithms, and code paths work correctly. Below are white box test cases for the Online Banking System.

1. Login Functionality:
 - Test Case 1: Validate successful login with correct credentials.
 - Expected Result: Redirect to user dashboard.
 - Test Case 2: Attempt login with invalid data.
 - Expected Result: Display error message.
2. Fund Transfer Logic:
 - Test Case: Verify deduction and credit logic between sender and receiver.
 - Expected Result: Balances updated accurately in both accounts.
3. Transaction Recording:
 - Test Case: Ensure every transaction is logged in the database.
 - Expected Result: Transaction record stored successfully.
4. Balance Check:
 - Test Case: Validate that balance cannot go negative after a transaction.
 - Expected Result: Transaction rejected if insufficient funds.
5. Account Update:
 - Test Case: Test updating user profile or password.
 - Expected Result: Changes saved successfully in the database.

Result:

Thus, the Black Box and White Box Testing test cases for the Online Banking System were designed and verified successfully.