

Test Plan for User Story: Registered User Login From a New Device

1. Test Plan

1.1 Objective: The objective of this test plan is to ensure that the "Registered User Login From a New Device" functionality works as expected. The system should allow a registered user to login from a new device, notify them via SMS, log them out from all other devices, and redirect them to the home page after successful login.

1.2 Scope:

- Testing the login process from a new device.
- Validation of input fields (phone number and password).
- OTP generation and validation.
- Logout from other devices after login from a new device.
- Notifications to the user via SMS.
- Redirection to the home page post successful login.

1.3 Assumptions:

- The user already has an account in the system.
- The phone number used for login is already registered.
- The user has access to receive OTP on the registered phone number.

1.4 Roles and Responsibilities:

- Test Manager: Oversee the testing process.
- Test Engineer: Create and execute test cases.
- Developer: Fix issues reported during testing.
- Business Analyst: Clarify requirements and acceptance criteria.

1.5 Tools:

- Test Management Tool (e.g., JIRA, TestRail)
- Automation Tools (e.g., Selenium, Cypress)
- SMS Gateway for notification testing

1.6 Schedule:

- Test Case Development: 2 days
- Test Execution: 3 days
- Bug Fixing and Retesting: 2 days

2. Risk Based Testing (RBT)

2.1 Risk Identification:

- Incorrect handling of invalid credentials.
- Failure in OTP generation or validation.
- Issues with SMS notifications.
- Failure to log out from other devices.
- UI/UX issues on different devices.

2.2 Risk Assessment:

- High: Failure in OTP validation, SMS notifications, logout from other devices.
- Medium: Input validation errors, UI/UX issues.
- Low: Minor UI inconsistencies.

2.3 Mitigation Plan:

- High risks will have priority in testing and bug fixing.
- Regular code reviews and automated tests for critical functionalities.

3. Test Cases

3.1 Acceptance Test Cases:

- **Test Case 1: Successful Login from a New Device**
 - **Pre-condition:** User account exists, and the user is logged in on another device.
 - **Steps:**
 1. Navigate to the login page.
 2. Enter valid phone number and password.
 3. Click on the "Next" button.

- 4. Enter received OTP.
 - 5. Click on the "Login" button.
 - **Expected Result:** User logs in successfully, receives an SMS notification, is logged out from other devices, and is redirected to the home page.
- **Test Case 2: Input Validation for Phone Number and Password**
 - **Steps:**
 - 1. Navigate to the login page.
 - 2. Enter invalid phone number or password.
 - 3. Click on the "Next" button.
 - **Expected Result:** Appropriate error message is displayed.
- **Test Case 3: OTP Validation**
 - **Steps:**
 - 1. Complete steps 1-3 of Test Case 1.
 - 2. Enter an incorrect OTP.
 - 3. Click on the "Login" button.
 - **Expected Result:** Error message for incorrect OTP is displayed.
- **Test Case 4: SMS Notification on Successful Login**
 - **Steps:**
 - 1. Complete steps of Test Case 1.
 - **Expected Result:** User receives an SMS notification about the login from a new device.

3.2 Edge Test Cases:

- **Test Case 5: Empty Phone Number and Password Fields**
 - **Steps:**
 - 1. Navigate to the login page.
 - 2. Leave phone number and password fields empty.
 - 3. Click on the "Next" button.
 - **Expected Result:** Error messages for required fields are displayed.

- **Test Case 6: OTP Expiry**
 - **Steps:**
 1. Complete steps 1-3 of Test Case 1.
 2. Wait for OTP to expire.
 3. Enter the expired OTP.
 4. Click on the "Login" button.
 - **Expected Result:** Error message for expired OTP is displayed.

4. Test Runs

4.1 Initial Test Run:

- Execute all acceptance test cases to validate the basic functionality.

4.2 Regression Test Run:

- Execute edge test cases and any impacted test cases after fixing bugs.

4.3 Smoke Test Run:

- Run critical test cases to ensure the major functionalities work before release.

4.4 Performance Test Run:

- Check the system's response time and behavior under load, especially during the OTP process and login.