TEST CASES FOR META WEBSITE

Project Name : FACEBOOK WEB APPLICATION

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Link : <https://www.facebook.com/>

Below are detailed test cases for Facebook's application, with descriptions, preconditions, test steps, expected results, actual results, and status fields.

### **1. Login and Logout**

* **Description:** Check if users can successfully log in and log out with valid credentials.
* **Precondition:** User has a Facebook account.
* **Test Steps:**
  1. Open the Facebook app.
  2. Enter valid credentials and tap "Login."
  3. After logging in, navigate to the settings and tap "Logout."
* **Expected Result:** Users should successfully log in and see their news feed, then log out without issues.
* **Actual Result:** Users should be successfully login
* **Status:** Pass

### **2. Sign-Up Process**

* **Description:** Verify that new users can sign up with valid information.
* **Precondition:** No existing account with the same email or phone number.
* **Test Steps:**
  1. Open the Facebook app and tap "Create New Account."
  2. Enter valid information and complete the process.
* **Expected Result:** User should receive a confirmation and be able to access their account.
* **Actual Result:** Same as expected result
* **Status:** Pass

### **3. Password Reset**

* **Description:** Verify that the "Forgot Password" feature works.
* **Precondition:** User has an existing Facebook account.
* **Test Steps:**
  1. Tap "Forgot Password" on the login screen.
  2. Enter the registered email/phone number and follow the prompts.
* **Expected Result:** User should receive a link/code to reset their password.
* **Actual Result:** Same as expected result
* **Status:** Pass

### **4. News Feed Loading**

* **Description:** Verify that the news feed loads with recent posts.
* **Precondition:** User is logged into their account.
* **Test Steps:**
  1. Log in to Facebook.
  2. Observe if the news feed loads recent posts.
* **Expected Result:** News feed should display relevant posts without delay.
* **Actual Result:** Same as expected result
* **Status:** Pass

### **5. Post Creation**

* **Description:** Verify users can create, edit, and delete posts.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Create a new post with text or media.
  2. Edit the post.
  3. Delete the post.
* **Expected Result:** Post is successfully created, edited, and deleted.
* **Actual Result:** Post is successfully created, edited, and deleted.
* **Status:** Pass

### **6. Comments and Reactions**

* **Description:** Verify users can comment and react to posts.
* **Precondition:** User is logged in and viewing a post.
* **Test Steps:**
  1. Add a comment and choose a reaction on a post.
* **Expected Result:** Comment and reaction appear immediately on the post.
* **Actual Result:** Comment and reaction appear immediately on the post.
* **Status:** Pass

### **7. Friend Request**

* **Description:** Verify users can send and manage friend requests.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Search for a user and send a friend request.
  2. Accept/reject a pending friend request.
* **Expected Result:** Friend request is successfully sent, accepted, or rejected.
* **Actual Result:** Friend request is successfully sent, accepted, or rejected
* **Status:** Pass

### **8. Messaging**

* **Description:** Verify real-time messaging functionality.
* **Precondition:** Both users are logged in.
* **Test Steps:**
  1. Send a message to another user.
  2. Wait for the response.
* **Expected Result:** Messages are sent and received instantly with notifications.
* **Actual Result:** Same as expected result
* **Status:** Pass

### **9. Search Functionality**

* **Description:** Verify users can search for friends, groups, and pages.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Use the search bar to find friends, groups, and pages.
* **Expected Result:** Search results appear accurately based on input.
* **Actual Result:** Search results appear accurately based on input
* **Status:** Pass

### **10. Notifications**

* **Description:** Verify users receive notifications for key activities.
* **Precondition:** User has notifications enabled.
* **Test Steps:**
  1. Perform activities that generate notifications (e.g., like a post).
  2. Check the notifications section.
* **Expected Result:** Notifications appear for activities such as likes and comments.
* **Actual Result:** Same as expected
* **Status:** Pass

### **Performance Test Cases**

### **11. App Loading Time**

* **Description:** Measure app loading time.
* **Precondition:** User opens the app.
* **Test Steps:**
  1. Launch the Facebook app.
* **Expected Result:** App loads within 5 seconds.
* **Actual Result:** Taking more time in loading
* **Status:** Fail

### **12. News Feed Scrolling**

* **Description:** Verify smooth scrolling in the news feed.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Scroll through the news feed.
* **Expected Result:** Smooth scrolling without lag.
* **Actual Result:** Same as expected
* **Status:** Pass

### **13. Image and Video Upload Speed**

* **Description:** Test upload speed for media.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Upload a photo/video.
* **Expected Result:** Upload completes quickly (within a few seconds for images).
* **Actual Result:** Images are not uploading quickly
* **Status:** Fail

### **14. Battery Consumption**

* **Description:** Measure battery usage.
* **Precondition:** Device has full battery.
* **Test Steps:**
  1. Use the app continuously for 30 minutes.
* **Expected Result:** Battery consumption is within reasonable limits.
* **Actual Result:** Takes more battery while running and in background.
* **Status:** Fail

### **15. Data Usage**

* **Description:** Measure data usage for typical app activities.
* **Precondition:** Device has internet access.
* **Test Steps:**
  1. Browse posts, watch videos, and upload images.
* **Expected Result:** Data usage is optimised and not excessive.
* **Actual Result:** Same as expected
* **Status:** Pass

### **Usability Test Cases**

### **16. Navigation Ease**

* **Description:** Verify ease of navigation between main sections.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Navigate to different sections like Friends, Messages, Notifications.
* **Expected Result:** User can easily access all sections without confusion.
* **Actual Result:** Same as expected.
* **Status:** Pass

### **17. Button and Link Visibility**

* **Description:** Check visibility of buttons and links.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Observe buttons and links across the app.
* **Expected Result:** All buttons are clearly visible and easy to tap.
* **Actual Result:** Buttons are not visible clearly
* **Status:** Pass

### **18. Profile Customization**

* **Description:** Verify users can edit their profile.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Navigate to the profile and update profile details.
* **Expected Result:** Changes are successfully saved.
* **Actual Result:** Taking more time in changing the DP
* **Status:** Fail

### **19. Dark Mode**

* **Description:** Verify Dark Mode.
* **Precondition:** Device supports dark mode.
* **Test Steps:**
  1. Enable Dark Mode.
* **Expected Result:** UI adjusts to dark theme without issues.
* **Actual Result:** Same as expected
* **Status:** Pass

### **20. Error Messages and Help Text**

* **Description:** Verify clarity of error messages.
* **Precondition:** User is logged in.
* **Test Steps:**
  1. Enter invalid information in forms.
* **Expected Result:** Relevant error messages appear with clear guidance.
* **Actual Result:** Same as expected
* **Status:** Pass.

CONCLUSION : These are the detailed test cases that cover key concepts of functionality, performance, and usability for Facebook’s app or website.