Facebook

1. User Registration and Login

- **Positive Test Cases:**
    - Register a new user with a valid email and password.
    - Register a new user using a phone number.
    - Log in using correct email and password.
    - Log in using correct phone number and password.
    - Enable two-factor authentication for secure login.
    - Allow password reset via email or SMS.
    - Log in using third-party services (e.g., Google, Apple).
    - Support auto-login for the next session (Remember me option).
- **Negative Test Cases:**
    - Attempt to register with an already used email or phone number.
    - Register with an invalid email format.
    - Enter a password shorter than the required length during registration.
    - Fail login due to incorrect credentials.
    - Try to log in with an invalid email format.
    - Password reset link expired or invalid.
    - Two-factor authentication failing due to server issues.

2. Profile Creation and Update

- **Positive Test Cases:**
    - Successfully create and update a profile with bio, picture, and contact details.

- o Add personal information (workplace, education, location, etc.).
- o Set privacy for profile information (public, friends only, custom).
- o Change profile picture and cover photo.
- o Add featured photos and videos to the profile.
- o Set a profile status (active, away, do not disturb).
- **Negative Test Cases:**
  - o Fail to update profile details due to server issues.
  - o Incorrect profile picture dimensions or file size exceeding limit.
  - o Error when saving personal information due to invalid format (e.g., phone number).
  - o Privacy settings not saved after updating.
  - o Profile information not syncing across devices.
  - o Unable to update profile status due to network errors.

3. Friend Requests and Management

- **Positive Test Cases:**
  - o Send a friend request to another user.
  - o Accept or reject an incoming friend request.
  - o Remove a friend from the friend list.
  - o Search and find friends using filters (location, mutual friends, etc.).
  - o Block/unblock users from sending friend requests.
  - o View and manage pending friend requests.
- **Negative Test Cases:**
  - o Fail to send a friend request due to network issues.
  - o Friend request not visible in notifications or pending list.
  - o Cannot remove a friend from the list due to system errors.
  - o Unable to block/unblock a user due to privacy settings issues.
  - o Failure in sending or receiving friend requests due to user account restrictions.
  - o Friend list not updating after accepting or rejecting requests.

4. News Feed and Timeline

- **Positive Test Cases:**
  - o Display posts from friends, pages, and groups in the news feed.
  - o Automatically refresh and update the news feed.
  - o Like, comment, and share posts in the feed.
  - o Filter news feed posts by most recent or top stories.
  - o View stories (images/videos) posted by friends.
  - o Hide or report inappropriate posts.
- **Negative Test Cases:**
  - o News feed not loading due to network or server issues.
  - o Fail to like, comment, or share posts.
  - o Incorrect ordering of posts in the feed (e.g., outdated posts displayed).
  - o Stories not loading or displaying incorrectly.
  - o Post content (images/videos) not loading due to content server failure.
  - o Unable to hide or report a post due to system errors.

5. Posts (Text, Images, Videos, Live)

- **Positive Test Cases:**
  - o Create and publish a text post on the user timeline.

- Upload and share images in a post.
- Upload and share videos in a post.
- Set privacy for posts (public, friends, custom audience).
- Go live and stream video to friends or public.
- Add reactions, comments, and shares to a post.
- Tag friends, add a location, and check-in in a post.
- **Negative Test Cases:**
  - Fail to upload images or videos due to file size limits or format restrictions.
  - Post not appearing on the timeline due to content moderation.
  - Privacy settings not applying correctly to a post.
  - Unable to go live due to network bandwidth issues.
  - Posts not displaying correctly after publishing.
  - Unable to tag friends or add location due to app permission issues.

6. Notifications

- **Positive Test Cases:**
  - Receive notifications for likes, comments, shares, and friend requests.
  - Get notified about upcoming events, birthdays, or group updates.
  - Enable or disable notifications for specific pages or groups.
  - Access and view notifications across different devices.
  - Mark notifications as read or delete them.
  - Receive real-time notifications when tagged in posts or photos.
- **Negative Test Cases:**
  - Delay in receiving notifications for interactions.
  - Notifications not showing for specific events (e.g., birthdays).
  - Unable to disable notifications for groups or pages.
  - Notifications not syncing across devices.
  - Notifications appearing repeatedly even after being marked as read.
  - Notifications for friend requests or messages missing.

7. Messages (Messenger)

- **Positive Test Cases:**
  - Send and receive text messages between friends.
  - Send and receive multimedia content (images, videos) in chat.
  - Make audio and video calls within Messenger.
  - Start a group chat with multiple friends.
  - React to messages with emojis or stickers.
  - Search chat history and find specific conversations.
  - Enable read receipts and typing indicators.
- **Negative Test Cases:**
  - Messages not sending due to network or server issues.
  - Multimedia content failing to load or send in the chat.
  - Audio or video calls not connecting due to bandwidth issues.
  - Group chats not displaying all participants correctly.
  - Message reactions not loading or sending.
  - Unable to search for conversations due to index or database errors.

8. Groups and Pages

- **Positive Test Cases:**
    - Join or leave a Facebook group.
    - Create a new group or page as an admin.
    - Post updates or multimedia content in groups and pages.
    - Manage group/page members, posts, and permissions.
    - Receive group/page notifications based on preferences.
    - Participate in group discussions and comment on posts.
- **Negative Test Cases:**
    - Fail to join a group due to privacy or access restrictions.
    - Group or page posts not displaying correctly.
    - Unable to create a new group or page due to system errors.
    - Fail to add/remove members from a group or page.
    - Post moderation failing for groups (e.g., inappropriate content not removed).
    - Group notifications not sent or delayed.

9. Events

- **Positive Test Cases:**
    - Create a public or private event.
    - Invite friends to an event.
    - RSVP to an event invitation (Going, Maybe, Not Going).
    - View upcoming and past events on the user calendar.
    - Add event details including location, time, and description.
    - Share an event with friends or on the timeline.
- **Negative Test Cases:**
    - Unable to create an event due to validation errors.
    - Fail to invite friends to an event.
    - Incorrect event details (time, date) displayed.
    - RSVP status not updating after selection.
    - Event notifications not received or delayed.
    - Events not syncing with the user's calendar.

10. Privacy Settings

- **Positive Test Cases:**
    - Set and manage privacy settings for profile, posts, and friend list.
    - Enable options for who can view or comment on posts.
    - Block or unblock specific users.
    - Customize privacy settings for third-party apps and games.
    - Manage who can send friend requests or follow the user.
    - Enable secure browsing (HTTPS).
- **Negative Test Cases:**
    - Fail to save updated privacy settings.
    - Privacy settings not applied correctly (e.g., public posts showing as private).
    - Unable to block or unblock users.
    - Incorrect privacy settings for posts or profile information.
    - Third-party app privacy settings not updating.
    - Issues with accessing privacy controls due to page loading errors.

11. Marketplace

- **Positive Test Cases:**
  - Browse items listed for sale in the Facebook Marketplace.
  - Search for specific items by category or location.
  - Contact sellers through Messenger.
  - List an item for sale, including details and price.
  - Apply filters for pricing, location, and item condition.
- **Negative Test Cases:**
  - Fail to load Marketplace listings due to server issues.
  - Incorrect filtering or search results displayed.
  - Unable to contact sellers due to message restrictions.
  - Items listed not appearing for potential buyers.
  - Marketplace items not updating after being sold.

Incorrect pricing or item details displayed after listing.