

ATM

1. Card Insertion

Positive Test Cases:

- Valid card with correct orientation (chip side facing up).
- Valid card inserted in contactless mode.
- Valid card inserted after language selection.
- The card was successfully read after multiple failed attempts.

Negative Test Cases:

- Insert expired card.
- Insert blocked or stolen card.
- Insert card upside down or backward.
- Insert a card from an unsupported bank.
- Insert a damaged card (e.g., broken chip or demagnetized).
- Insert a foreign card not belonging to the same bank.
- Insert multiple cards at once.
- Insert a card, then remove it abruptly during reading.
- Insert a card, then cancel the transaction midway.
- Insert a valid card, but the ATM is out of order.

2. PIN Validation

Positive Test Cases:

- Correct PIN entered on the first attempt.
- Correct PIN entered after an incorrect attempt.
- Correct PIN entered after a delay (system timeout).
- Correct PIN entered after selecting a specific account type (e.g., Savings/Checking).

Negative Test Cases:

- Enter incorrect PIN once, twice, and three times.
- Enter fewer than the required digits (e.g., 3 digits for a 4-digit PIN).
- Enter more than the required number of digits.
- Enter alphanumeric characters (if the keypad allows).
- Enter correct PIN after multiple wrong attempts (account lock).
- Enter PIN with special characters or spaces (if possible).
- Enter PIN when the card is blocked or expired.
- Enter incorrect PIN after system timeout.
- Enter PIN when the ATM system is down (network failure).

3. Account Type Selection (Savings, Checking, Credit)

Positive Test Cases:

- Select Savings account.

- Select Checking account.
- Select Credit Card account.

Negative Test Cases:

- Try to proceed without selecting an account type.
- Select an invalid account type (e.g., select “Credit” for a card with no credit option).
- Cancel during account type selection.
- Account selection when account is locked or frozen.
- Select account when the ATM is in offline mode.

4. Balance Inquiry

Positive Test Cases:

- Perform balance inquiry for a valid savings account.
- Perform balance inquiry for a valid checking account.

Negative Test Cases:

- Balance inquiry when the account is frozen.
- Balance inquiry for an account with a zero balance.
- Inquiry during network failure.
- Inquiry without selecting an account type.
- Inquiry with an expired card.
- Inquiry with a damaged card.
- Inquiry with an unsupported card type (e.g., a foreign card).
- Timeout during balance inquiry before balance is displayed.
- Balance inquiry after multiple failed PIN attempts (locked account).

5. Cash Withdrawal

Positive Test Cases:

- Withdraw an amount within the daily withdrawal limit.
- Withdraw an amount within the available account balance.
- Withdraw in different denominations (e.g., \$20, \$50, \$100).

Negative Test Cases:

- Withdraw an amount exceeding daily withdrawal limits.
- Withdraw more than the available account balance.
- Withdraw an invalid amount (e.g., \$53 if only \$50/\$100 denominations are available).
- Withdraw when the ATM is out of cash.
- Withdraw without selecting an account type.
- Withdraw using a blocked or expired card.
- Withdraw multiple times until balance is exceeded.
- Withdraw with network connectivity issues.
- Cancel withdrawal after entering the amount.
- Withdraw with damaged or unreadable card.
- Withdraw from an account with insufficient balance.

6. Fund Transfer

Positive Test Cases:

- Transfer funds between accounts within the same bank.
- Transfer funds to an external account (another bank).
- Transfer within the allowed daily limit.

Negative Test Cases:

- Transfer exceeding daily limit.
- Transfer to an invalid account number.
- Transfer more than the available balance.
- Transfer between unsupported account types (e.g., from credit card to savings).
- Transfer with invalid routing details (external bank).
- Transfer during network outage.
- Cancel transaction midway after entering the transfer amount.
- Attempt transfer with frozen/blocked accounts.
- Timeout during fund transfer input.

7. Deposit

Positive Test Cases:

- Deposit cash into savings/checking account.
- Deposit check into account (if feature is supported).
- Deposit within the allowed daily limit.

Negative Test Cases:

- Deposit exceeding the daily deposit limit.
- Deposit a damaged check.
- Deposit without selecting an account.
- Cancel deposit midway after inserting cash.
- Deposit into a closed/frozen account.
- Attempt deposit when ATM deposit tray is jammed.
- Attempt deposit during network failure.
- Deposit with counterfeit or unreadable cash (if ATM can detect it).

8. Bill Payment

Positive Test Cases:

- Pay utility bills using the ATM.
- Pay credit card bills using the ATM.

Negative Test Cases:

- Attempt to pay an invalid bill.
- Pay bills exceeding the allowed transaction limit.
- Pay bills using an invalid account number.

- Bill payment during network failure.
- Timeout during bill payment input.
- Pay bills with insufficient balance.
- Cancel bill payment midway after entering details.

9. Card Ejection

Positive Test Cases:

- Card successfully ejected after transaction completion.
- Card ejected if the transaction is canceled midway.

Negative Test Cases:

- Card remains stuck after completing the transaction.
- Card not ejected after canceling the transaction.
- Card not ejected after network failure or ATM crash.
- Card ejected before PIN entry screen (user cancels before entering PIN).

10. System Performance

Load Testing:

- Perform multiple transactions in rapid succession.
- Check ATM response times during peak hours (high load).

Stress Testing:

- Test ATM behavior under extreme load (e.g., 100+ consecutive transactions).
- Simulate ATM behavior during server outages (network failure, database failure).

Recovery Testing:

- Simulate power failure during a transaction.
- Check for proper recovery after an ATM reboot.

11. Usability Testing

Positive Test Cases:

- Test ATM screen visibility under different lighting conditions.
- Ensure all buttons on the keypad respond correctly.
- Check the ATM interface for different languages.

Negative Test Cases:

- Check for unclear messages or instructions.
- Ensure the cancel button works on every screen.
- Test screen resolution and responsiveness for touch-enabled ATMs.

12. Security Testing

Positive Test Cases:

- Ensure encryption for PIN entry.
- Validate secure card reading and writing.

Negative Test Cases:

- Test for brute-force attacks (repeated incorrect PIN entries).
- Attempt unauthorized access using foreign objects (e.g., skimming devices).
- Check for vulnerabilities in card reader.
- Test for shoulder surfing (screen readability from various angles).

13. Edge Cases

- Insert a valid card after the ATM has timed out.
- Withdraw an amount that would leave the balance at exactly \$0.
- Perform a transaction when the ATM's receipt printer runs out of paper.
- Enter correct PIN after three incorrect attempts on a separate day.
- Perform transactions using international cards (different currencies, regions).

Uber

1. User Registration/Onboarding

- **Positive Test Cases:**
 - Register with valid email and password.
 - Register with valid phone number and OTP verification.
 - Register via Google/Facebook account integration.
 - Enter all mandatory fields (name, email, phone) correctly.
 - Upload a profile picture during registration.
 - Accept terms and conditions before registering.
 - Complete registration using a referral code.
- **Negative Test Cases:**
 - Register with an invalid email format.
 - Register with an invalid phone number format.
 - Leave any mandatory field blank (e.g., phone number, name).
 - Register with an existing email address (duplicate account).
 - Enter a mismatched OTP for phone verification.
 - Register without accepting terms and conditions.
 - Enter incorrect credentials when registering via Google/Facebook.
 - Attempt to register with a deactivated account.

2. Login Functionality

- **Positive Test Cases:**
 - Login with valid email and password.

- Login with a verified phone number and OTP.
- Login via social media (Google/Facebook) account.
- Remember login credentials across app restarts.
- Login after a password reset.
- Stay logged in after the app is closed.
- **Negative Test Cases:**
 - Login with incorrect email/password.
 - Attempt login with unregistered email.
 - Enter incorrect OTP for phone login.
 - Login with a suspended or deactivated account.
 - Try logging in without an internet connection.
 - Submit the login form without entering credentials.
 - Login after multiple failed attempts (lockout scenario).

3. Profile Management

- **Positive Test Cases:**
 - Edit and update name, email, and phone number.
 - Upload and change profile picture.
 - Change password successfully.
 - Add/update payment methods (credit card, PayPal, etc.).
 - Link social media accounts to the profile.
- **Negative Test Cases:**
 - Enter invalid email while updating profile.
 - Use an invalid phone number format during phone update.
 - Leave mandatory fields blank during profile updates.
 - Attempt to change profile information without internet access.
 - Use an expired payment method while updating payment info.
 - Try to update the profile with an already registered email.

4. Ride Booking

- **Positive Test Cases:**
 - Book a ride by entering valid pickup and destination addresses.
 - Use GPS for automatic pickup location detection.
 - Choose between different ride types (UberX, UberXL, UberPool, etc.).
 - Schedule a ride for a future date/time.
 - Apply valid promo codes or discounts during booking.
 - Add special instructions for drivers (e.g., luggage).
 - Add multiple drop-off points during booking.
 - Receive fare estimates for different ride types.
- **Negative Test Cases:**
 - Enter an invalid pickup or destination address (non-existent location).
 - Try to book a ride without selecting a destination.
 - Book a ride for an unsupported location (outside service area).
 - Apply an expired or invalid promo code.
 - Attempt to book without a payment method.
 - Schedule a ride for a past date/time.
 - Book a ride when no drivers are available.
 - Enter incorrect or incomplete location addresses.
 - Cancel a ride after the driver has already arrived.

- Try booking a ride with a frozen or inactive account.
- Book a ride during an internet outage.
- Book a ride during app downtime or maintenance.

5. Real-Time Ride Tracking

- **Positive Test Cases:**
 - Track the driver's route in real time after booking.
 - Display estimated time of arrival (ETA) for the driver.
 - View the driver's details (name, picture, license plate).
 - Contact the driver via call/message during the ride.
 - Track ride progress after the passenger enters the vehicle.
- **Negative Test Cases:**
 - Track the ride without GPS enabled on the phone.
 - Show incorrect driver details (mismatched information).
 - Incorrect ETA calculations during heavy traffic.
 - Ride tracking does not update after the driver starts the trip.
 - Track ride after internet disconnection.
 - Incorrect or no route displayed after driver starts the ride.
 - Location updates are delayed due to poor GPS signal.

6. Fare Calculation and Payment

- **Positive Test Cases:**
 - Calculate fare based on selected ride type and distance.
 - Apply surge pricing during high-demand hours.
 - Automatically apply valid discount codes or promotions.
 - Add a tip to the fare after ride completion.
 - Pay using a linked credit card, debit card, or digital wallet.
 - Pay using Uber credits or vouchers.
- **Negative Test Cases:**
 - Attempt to pay with an expired card.
 - Apply an invalid or expired promo code.
 - Fare calculation fails due to network issues.
 - Surge pricing does not apply during high-demand periods.
 - Incorrect fare calculation (e.g., trip distance was miscalculated).
 - Trip cancellation fee is not applied for a cancelled ride.
 - Attempt to complete payment with insufficient funds.
 - Multiple payment methods are not accepted.

7. Ride Cancellation

- **Positive Test Cases:**
 - Cancel a ride before the driver is en route.
 - Cancel a ride during the "free cancellation" window.
 - Cancel a scheduled ride well in advance.
 - Cancel the ride after receiving driver ETA and contact details.
 - Receive refund or cancellation fee, if applicable.
- **Negative Test Cases:**
 - Cancel a ride after the driver has arrived (late cancellation fee).
 - Cancel a ride after the driver is en route but outside the free cancellation window.

- Attempt to cancel a ride without an internet connection.
- Cancel multiple rides consecutively (spam or penalty scenario).
- Cancel a scheduled ride past the free cancellation period.

8. Driver Ratings and Reviews

- **Positive Test Cases:**
 - Rate the driver after completing the ride.
 - Add a text review along with the rating.
 - Provide feedback using pre-defined options (e.g., cleanliness, driving).
 - Give a tip through the rating interface.
- **Negative Test Cases:**
 - Submit a rating without selecting any stars.
 - Try to leave a review without completing a ride.
 - Leave a review when the rating system is down.
 - Submit multiple reviews for the same ride.
 - Leave the review section blank and attempt to submit.

9. Notifications (Push, Email, SMS)

- **Positive Test Cases:**
 - Receive notifications for ride confirmation and driver details.
 - Receive notifications for ride cancellation by the driver.
 - Receive ETA updates via push notifications.
 - Receive fare receipts via email after completing a ride.
 - Get SMS notifications for OTP during registration and login.
- **Negative Test Cases:**
 - Fail to receive notifications during app downtime.
 - Notifications not delivered if the user's phone is in "Do Not Disturb" mode.
 - Receive duplicate notifications for the same event.
 - Receive notification even after turning off notification settings.
 - SMS/Email is delayed or not received due to connectivity issues.

10. Driver Module

- **Positive Test Cases:**
 - Accept a ride request successfully.
 - Navigate to the passenger's location using GPS.
 - Mark the ride as "Arrived" when at the pickup location.
 - Start the ride after the passenger enters the vehicle.
 - Complete the ride and collect fare payment.
 - View trip history and earnings reports.
- **Negative Test Cases:**
 - Fail to accept a ride request due to GPS issues.
 - Incorrect pickup location detected by the system.
 - Fail to start the ride due to app errors.
 - Navigation does not work correctly (incorrect routes suggested).
 - Complete the ride but fare is not updated in the system.
 - App crash during ongoing ride.
 - Unable to update driver status (available/unavailable).
 - Driver unable to cancel a ride despite issues.

11. Scheduled Rides

- **Positive Test Cases:**
 - Schedule a ride for a future time and receive confirmation.
 - Modify or reschedule a booked ride.
 - View all scheduled rides under a separate section.
- **Negative Test Cases:**
 - Schedule a ride for a past date/time.
 - Fail to modify the scheduled ride due to system downtime.
 - Driver assigned to a scheduled ride does not arrive.
 - System fails to send a reminder notification for a scheduled ride.
 - Scheduled ride is cancelled but no notification is sent.

12. Help and Support

- **Positive Test Cases:**
 - Access the help section and browse FAQs.
 - Contact customer support via chat or phone call.
 - Report an issue with a ride (e.g., overcharge, unsafe driving).
 - Receive a response or resolution within a given time frame.
- **Negative Test Cases:**
 - Try to contact support without an active internet connection.
 - Submit a support ticket with incomplete or incorrect details.
 - Support response delayed beyond expected time.
 - Fail to access the help section due to app downtime.
 - Multiple tickets submitted for the same issue (spam).

Google Maps

1. Search Functionality

- **Positive Test Cases:**
 - Search for a specific address by name (e.g., “Empire State Building”).
 - Search using latitude and longitude coordinates.
 - Search for a nearby place using keywords (e.g., “restaurants near me”).
 - Search with partial address details (e.g., only city or zip code).
 - Autocomplete suggestions for a search query.
 - Search for businesses with specific filters (e.g., open now, rating).
 - Use of voice input for searching a location.
- **Negative Test Cases:**
 - Search with an invalid address or a non-existent place.
 - Search with special characters or random strings.
 - Search without an active internet connection.
 - Search for a location in an unsupported country.
 - Search using an incomplete or ambiguous location name (e.g., “Central”).
 - Input a too-long query in the search bar (overflow scenario).
 - Search for a place that has been recently removed or renamed.

2. Directions & Navigation

- **Positive Test Cases:**
 - Get directions between two valid locations (A to B).
 - Get directions for driving, walking, cycling, and public transportation.
 - Select alternative routes with different time estimates.
 - Recalculate route when deviating from the planned route.
 - Use real-time traffic data to adjust ETA and route.
 - Display turn-by-turn navigation.
 - Save a route for offline use.
 - Display landmarks, gas stations, or restaurants along the route.
 - Provide multi-stop directions between more than two locations.
- **Negative Test Cases:**
 - Get directions between an invalid or non-existent location.
 - Attempt to get directions without GPS or location services enabled.
 - Navigation recalculation fails after deviating from the route.
 - Map not updating during real-time navigation (frozen map).
 - Traffic information not loading due to a network issue.
 - Directions show wrong or outdated road closures.
 - Input invalid coordinates or out-of-bound locations for navigation.
 - Fail to calculate directions when the distance is too long (cross-continental).

3. Real-Time Traffic Updates

- **Positive Test Cases:**
 - Display real-time traffic congestion on highways and roads.
 - Provide traffic updates (road closures, accidents) during navigation.
 - Use traffic data to suggest faster routes.
 - Change the color of roads to indicate different traffic levels (green, yellow, red).
- **Negative Test Cases:**
 - Fail to load traffic data due to server issues.
 - Incorrect traffic updates displayed (outdated or wrong information).
 - Traffic updates not shown due to location service being disabled.
 - Show inaccurate traffic data due to poor GPS signal.
 - Display traffic for wrong or irrelevant roads.

4. Offline Maps

- **Positive Test Cases:**
 - Download a map of a city or region for offline use.
 - Access saved offline maps without internet connection.
 - View directions and routes using offline maps.
 - Update downloaded offline maps when connected to the internet.
- **Negative Test Cases:**
 - Attempt to download an offline map with insufficient storage.
 - Fail to download offline maps due to network issues.
 - Offline maps do not load properly due to a corrupt file.
 - Access expired offline maps (past expiration date).
 - Incorrectly show “no internet” error when using offline maps.
 - Fail to update offline maps automatically when connected to Wi-Fi.

5. GPS & Location Accuracy

- **Positive Test Cases:**
 - Accurately detect the user's current location using GPS.
 - Update the user's location in real-time as they move.
 - Display current location with a high degree of precision.
 - Lock onto the GPS signal quickly when the app is opened.
 - Provide accurate directions based on real-time location changes.
- **Negative Test Cases:**
 - Fail to detect the current location due to GPS signal loss.
 - Show an incorrect or outdated location when GPS signal is weak.
 - Significant lag in updating location in real-time.
 - Location detection fails when location services are turned off.
 - Incorrect current location due to network issues.
 - Show large deviations in location accuracy (e.g., wrong street).

6. Place Reviews & Ratings

- **Positive Test Cases:**
 - Add a review for a place visited.
 - Rate a location using a star rating system.
 - Upload photos along with a review.
 - Edit an existing review or rating.
 - Mark a review as helpful or unhelpful.
 - View aggregate ratings and reviews for a place.
- **Negative Test Cases:**
 - Add a review without rating the place.
 - Attempt to review a place without visiting it (spam detection).
 - Enter invalid or offensive text in a review.
 - Submit a review without an active internet connection.
 - Review fails to load due to server-side issues.
 - Add duplicate reviews for the same location.
 - Fail to upload photos due to file size limitations.

7. Location Sharing

- **Positive Test Cases:**
 - Share current location with friends/family via a link.
 - Set a time limit for how long the location is shared.
 - Stop location sharing after a certain period manually.
 - Share the live route while navigating to a destination.
- **Negative Test Cases:**
 - Fail to share location due to no internet connection.
 - Fail to stop location sharing after it has started.
 - Incorrect or no live location updates while sharing due to poor GPS.
 - Attempt to share a location without GPS enabled.
 - Location sharing link does not work (broken link).
 - Incorrect location data shared (outdated information).

8. Business Listings & Details

- **Positive Test Cases:**
 - Search for a business and view its details (address, phone number, hours).

- View business photos uploaded by users or the business owner.
- See “Open Now” or “Closed” based on business hours.
- Click on the phone number to make a call directly from the app.
- Access directions to the business directly from the listing.
- **Negative Test Cases:**
 - Business details not updated (incorrect hours, outdated phone number).
 - Business listing shows incorrect or irrelevant photos.
 - Fail to load business information due to server issues.
 - Inaccurate display of whether the business is open or closed.
 - Incorrect business location on the map.

9. Route Planning (Multi-stop Routes)

- **Positive Test Cases:**
 - Add multiple stops to a single route (e.g., home, work, gym).
 - Calculate the most efficient route considering all stops.
 - Reorder stops during route planning.
 - Receive ETA and traffic information for each leg of the journey.
- **Negative Test Cases:**
 - Add too many stops causing the route planner to crash.
 - Route calculation fails after adding stops due to network issues.
 - Incorrect order of stops during navigation.
 - Fail to reroute after deleting or changing stops.
 - Traffic and ETA updates fail to load for intermediate stops.

10. Street View

- **Positive Test Cases:**
 - View a street-level panorama for a searched location.
 - Navigate through streets using the Street View feature.
 - Access historical Street View images for a location.
 - Zoom in/out in Street View.
- **Negative Test Cases:**
 - Street View fails to load for certain locations.
 - Street View images are blurry or outdated.
 - Fail to access Street View without an internet connection.
 - Street View not available in certain regions.
 - Navigation within Street View is slow or unresponsive.

11. Public Transit Directions

- **Positive Test Cases:**
 - Search for public transit directions between two locations.
 - Display multiple transit options (bus, train, subway).
 - Show live updates for transit arrival and departure times.
 - Suggest routes with the fewest transfers.
 - Offer walking directions to and from transit stations.
- **Negative Test Cases:**
 - Incorrect or outdated transit schedules displayed.
 - Fail to show live updates for transit due to network issues.
 - Public transit routes not showing alternative options.

- Incorrect or missing walking directions to/from transit stations.
- Transit option not available in certain cities.

12. Time and Distance Estimation

- **Positive Test Cases:**
 - Provide accurate time estimates for different modes of travel (car, bike, walk).
 - Adjust travel time estimate based on real-time traffic.
 - Display distance between two locations in miles/kilometers.
 - Calculate accurate total time for multi-stop trips.
- **Negative Test Cases:**
 - Incorrect time estimates due to outdated traffic data.
 - Fail to update time estimate after a route recalculation.
 - Distance displayed incorrectly due to GPS inaccuracies.
 - Time estimate not considering traffic or road closures.
 - Large deviations in time estimates due to poor route planning.

Cricinfo

1. Score Updates

- **Positive Test Cases:**
 - Display live scores for ongoing matches.
 - Show accurate scores for completed matches.
 - Update scores in real-time as the match progresses.
 - Display scores for various formats (T20, ODI, Test).
 - Provide scores for international, domestic, and league matches.
 - Show detailed scorecards including runs, wickets, and overs.
 - Display scores for both teams and individual players.
- **Negative Test Cases:**
 - Fail to update scores due to server issues.
 - Show incorrect scores due to data synchronization problems.
 - Display outdated scores after a match has ended.
 - No score updates available for matches in progress.
 - Incorrect or incomplete scorecards displayed.
 - Score updates are delayed or not reflecting real-time changes.

2. Fixtures and Schedules

- **Positive Test Cases:**
 - Display upcoming match schedules and fixtures.
 - Show fixtures for different tournaments and series.
 - Provide detailed schedule information including date, time, and venue.
 - Allow filtering of fixtures by team, tournament, or date.
 - Display rescheduled or postponed match information.
 - Show historical fixture data and results.
- **Negative Test Cases:**
 - Fail to display upcoming fixtures due to data source issues.
 - Incorrect or outdated fixture information.
 - Fixtures not showing for certain tournaments or leagues.

- Scheduling conflicts or errors in match timings.
- Fixture information not updating after rescheduling.
- No fixture data available for specific teams or series.

3. Player Stats and Profiles

- **Positive Test Cases:**
 - Display player profiles with career statistics (batting, bowling).
 - Show detailed stats including averages, centuries, and wickets.
 - Provide current form and recent performance data.
 - Allow searching and filtering of player profiles.
 - Display player rankings and achievements.
- **Negative Test Cases:**
 - Fail to load player profiles due to data issues.
 - Incorrect or outdated player statistics.
 - Missing or incomplete player profiles.
 - Player stats not updated after recent matches.
 - Inaccurate or inconsistent ranking information.
 - Search functionality not returning relevant player profiles.

4. News and Articles

- **Positive Test Cases:**
 - Display the latest cricket news and articles.
 - Show news from different sources and categories (e.g., match reports, player interviews).
 - Allow filtering of news by topic, team, or player.
 - Provide options to read full articles or summaries.
 - Display multimedia content (videos, images) within news articles.
- **Negative Test Cases:**
 - Fail to load news articles due to server or network issues.
 - Display outdated or irrelevant news.
 - News articles not updating with the latest information.
 - Multimedia content not loading within articles.
 - News search functionality returning incorrect results.
 - Issues with accessing full articles or summaries.

5. Live Commentary

- **Positive Test Cases:**
 - Provide live text commentary for ongoing matches.
 - Display ball-by-ball commentary with updates.
 - Show commentary for different formats (T20, ODI, Test).
 - Offer options to follow specific commentary aspects (e.g., key moments, wickets).
- **Negative Test Cases:**
 - Fail to load live commentary due to connectivity issues.
 - Commentary not updating in real-time.
 - Incorrect or incomplete commentary data.
 - No commentary available for certain matches.
 - Commentary for key moments missing or delayed.
 - Issues with navigation or readability of commentary.

6. Team and Tournament Information

- **Positive Test Cases:**
 - Display detailed information about cricket teams (squad, captain, coach).
 - Show information about ongoing and upcoming tournaments.
 - Provide details about tournament formats, rules, and standings.
 - Display historical data and records for teams and tournaments.
- **Negative Test Cases:**
 - Fail to load team or tournament information due to data source issues.
 - Incorrect or outdated team and tournament details.
 - Missing or incomplete data for specific teams or tournaments.
 - Issues with displaying tournament standings or results.
 - Team or tournament information not updating after changes.
 - Difficulty accessing historical data or records.

7. User Interactions and Personalization

- **Positive Test Cases:**
 - Allow users to create and manage their profiles.
 - Provide options for users to follow favorite teams, players, or tournaments.
 - Enable notifications for match updates, news, or player performance.
 - Allow users to save and access personalized content.
- **Negative Test Cases:**
 - Fail to create or update user profiles due to server issues.
 - Notifications not delivered or not correctly configured.
 - Personalization settings not saving or applying correctly.
 - Issues with following or unfollowing teams/players.
 - Missing or incorrect user-specific content or updates.
 - Difficulty accessing personalized features or settings.

8. Multimedia Content (Videos, Images)

- **Positive Test Cases:**
 - Display cricket-related videos and highlights.
 - Show images related to matches, players, and events.
 - Allow users to view and share multimedia content.
 - Provide options to play, pause, and navigate through videos.
- **Negative Test Cases:**
 - Fail to load videos or images due to data or server issues.
 - Multimedia content not displaying or playing correctly.
 - Incorrect or outdated multimedia content.
 - Issues with video playback controls (play, pause, volume).
 - Multimedia content not available for certain matches or events.
 - Difficulty sharing or accessing multimedia content.

9. Scorecard and Match Analysis

- **Positive Test Cases:**
 - Display detailed scorecards for completed matches.
 - Show match analysis including player performance and statistics.
 - Provide summaries and highlights of key match events.

- Offer in-depth analysis and commentary on match outcomes.
- **Negative Test Cases:**
 - Fail to load scorecards due to data source issues.
 - Incorrect or incomplete scorecard information.
 - Missing or outdated match analysis data.
 - Scorecard or analysis not updating after recent matches.
 - Difficulty accessing detailed match summaries or highlights.
 - Errors in player performance or statistics display.

10. Search Functionality

- **Positive Test Cases:**
 - Search for players, teams, matches, or news articles.
 - Provide autocomplete suggestions based on search queries.
 - Filter search results by category (e.g., player stats, match scores).
 - Return relevant results for different types of searches.
- **Negative Test Cases:**
 - Search returning no results for valid queries.
 - Incorrect or irrelevant search results.
 - Search functionality not working due to server or network issues.
 - Autocomplete suggestions not matching search queries.
 - Filtering options not working or returning incorrect results.
 - Difficulty in handling special characters or long search queries.

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.

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

3. Friend Requests and Management

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

4. News Feed and Timeline

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

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

- **Positive Test Cases:**
 - 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.

YouTube

1. User Registration and Login

- **Positive Test Cases:**
 - Register a new user with a valid email and password.
 - Log in using correct email and password.
 - Sign in using Google account integration.
 - Enable two-factor authentication for secure login.
 - Reset password via email.
 - Use "Remember me" option to stay logged in across sessions.
- **Negative Test Cases:**
 - Attempt to register with an invalid email format.
 - Register with an email that's already linked to another account.
 - Fail login with incorrect email/password.
 - Invalid Google authentication token.
 - Fail to reset password due to expired or invalid link.
 - Two-factor authentication code fails to deliver or is invalid.

2. Video Search and Discovery

- **Positive Test Cases:**
 - Search for videos using keywords, titles, or channel names.
 - Filter search results by upload date, view count, relevance, and duration.
 - Discover trending videos on the homepage.
 - Play a video directly from search results.
 - Find a playlist from search results.
 - Search for live streams.
- **Negative Test Cases:**
 - Search returning irrelevant or zero results for valid queries.
 - Search filters (upload date, view count) not working correctly.
 - Incorrect or broken video links in search results.
 - Slow loading or failed video search due to server issues.
 - Video thumbnails not displaying for search results.
 - Search results showing inappropriate or restricted content (incorrect filtering).

3. Video Playback

- **Positive Test Cases:**
 - Play a video with proper buffering and minimal loading time.
 - Change video quality (1080p, 720p, 480p, etc.).
 - Enable/disable subtitles or closed captions.
 - Adjust playback speed (0.25x, 0.5x, 1.5x, 2x).
 - Watch videos in fullscreen, mini-player, and theater modes.
 - Use "Play next" or "Add to queue" functionality.
 - Access video descriptions and comments while video is playing.
- **Negative Test Cases:**
 - Video fails to load or buffer due to server or network issues.
 - Incorrect video quality selected (e.g., selecting 1080p but getting 480p).
 - Subtitles not synced with video content.
 - Playback speed control not functioning properly.
 - Fullscreen mode not working on specific browsers/devices.
 - Video stops or crashes unexpectedly during playback.
 - Comments or description not loading while video is playing.
 - Video autoplay not working after the current video finishes.

4. Video Upload and Processing

- **Positive Test Cases:**
 - Successfully upload a video file from local storage.
 - Select a custom thumbnail for the video.
 - Add a video title, description, and tags.
 - Set video visibility (public, unlisted, private).
 - Set video category (Education, Entertainment, etc.).
 - Upload a video of various formats (MP4, MOV, AVI).
 - Set video age restrictions and audience (children-friendly or not).
- **Negative Test Cases:**
 - Fail to upload a video due to size or format restrictions.
 - Video metadata (title, tags) not saved during upload.
 - Thumbnail upload fails or image exceeds size limits.
 - Video upload stuck in processing stage.
 - Incorrect video format rejection (e.g., supported format detected as unsupported).
 - Upload fails midway due to network issues.
 - Incorrect or failed application of age restrictions or audience settings.

5. Subscriptions and Notifications

- **Positive Test Cases:**
 - Subscribe to a channel.
 - Receive notifications for new videos from subscribed channels.
 - Manage notification preferences (All, Personalized, None).
 - Access list of subscribed channels on the homepage.
 - Unsubscribe from a channel.
 - View and organize channel subscriptions.
- **Negative Test Cases:**
 - Fail to subscribe to a channel due to server issues.
 - Delayed or no notifications for newly uploaded videos.

- Notification preferences not saving.
- Subscribed channel not appearing in the list.
- Incorrect subscription count displayed.
- Unable to unsubscribe from a channel.
- Channels incorrectly marked as subscribed/unsubscribed.

6. Likes, Comments, and Sharing

- **Positive Test Cases:**
 - Like or dislike a video.
 - Add a comment to a video.
 - Reply to or like a comment.
 - Share video via social media (Facebook, Twitter) or direct link.
 - Report a comment or video for inappropriate content.
 - Pin comments on your own video.
- **Negative Test Cases:**
 - Failure to like/dislike a video due to network or server issues.
 - Comments not loading or displaying.
 - Unable to reply to or like a comment.
 - Shared video link not working or leading to the wrong video.
 - Reporting a comment or video not working.
 - Comment posted but not visible.
 - Inability to pin comments or pinning the wrong comment.

7. Playlists and Watch Later

- **Positive Test Cases:**
 - Create a playlist and add videos to it.
 - Mark a video for "Watch Later".
 - Share playlists with others via link or social media.
 - Set playlist privacy (public, unlisted, private).
 - Play all videos in a playlist continuously.
 - Reorder videos in a playlist.
 - Access and edit "Watch Later" list.
- **Negative Test Cases:**
 - Fail to create a playlist due to validation errors.
 - Playlist videos not playing in sequence.
 - Playlist not saving after editing.
 - Incorrect video count in the playlist.
 - Watch Later videos not appearing in the list.
 - Fail to remove videos from Watch Later.
 - Playlist privacy settings not applying properly.

8. Video Recommendations

- **Positive Test Cases:**
 - Display recommended videos based on watch history and preferences.
 - Refresh recommended videos when user interactions change.
 - Suggested videos appear after video ends.
 - Personalize recommendations for new users.
- **Negative Test Cases:**

- Recommendations not updating based on recent history.
- Irrelevant or inappropriate videos appearing in recommendations.
- Duplicate videos in recommended list.
- Recommendation engine failing due to network or data errors.
- Recommendations not displaying for a new user.

9. Channel Management

- **Positive Test Cases:**
 - Create a YouTube channel.
 - Customize the channel page with profile picture and banner.
 - Add channel description and links (social media, websites).
 - Upload multiple videos to a channel.
 - Manage channel playlists and videos.
 - Monitor channel analytics (views, watch time, subscribers).
- **Negative Test Cases:**
 - Fail to create a channel due to server or validation issues.
 - Channel customization changes not saving.
 - Incorrect channel analytics displayed.
 - Fail to upload videos to the channel due to permission issues.
 - Playlist and video management features not working.
 - Incorrect subscriber count or analytics updates.

10. Monetization and Ads

- **Positive Test Cases:**
 - Enable monetization for eligible videos.
 - View ads before, during, or after videos.
 - Access ad performance data in the YouTube Studio.
 - Set up channel membership and Super Chat for live streams.
 - Ad revenue reflecting in account balance correctly.
 - Use YouTube Premium to remove ads and enable background play.
- **Negative Test Cases:**
 - Monetization eligibility error for a video.
 - Ads not playing during monetized videos.
 - Incorrect ad revenue or analytics data.
 - Membership or Super Chat options not working during live streams.
 - Ads playing for premium users.
 - Premium features (background play, ad-free) not working.

11. YouTube Studio (Analytics and Management)

- **Positive Test Cases:**
 - Access detailed video analytics (views, demographics, watch time).
 - Edit video titles, tags, and descriptions.
 - View comments and moderate (approve/delete/report).
 - Monitor channel performance using YouTube Studio dashboard.
 - Enable/disable monetization for individual videos.
- **Negative Test Cases:**
 - Analytics data not updating in real-time.
 - Failure to edit video details (title, description, tags).

- Comments moderation panel not loading.
- Incorrect channel performance metrics displayed.
- Monetization settings failing to save.

12. Live Streaming

- **Positive Test Cases:**
 - Start a live stream from desktop or mobile.
 - Enable live chat during the stream.
 - Monetize live streams using ads and Super Chat.
 - Monitor live stream analytics (view count, live chat engagement).
 - Save the live stream as a video for future views.
- **Negative Test Cases:**
 - Fail to initiate a live stream due to bandwidth issues.
 - Live chat not appearing during the stream.
 - Delays in live stream analytics updates.
 - Fail to monetize a live stream.
 - Live stream disconnects due to server or network problems.
 - Inability to save the live stream as a recorded video.

13. Account Management

- **Positive Test Cases:**
 - Update account information (name, profile picture, linked accounts).
 - Change password and enable two-factor authentication.
 - Manage subscriptions, notifications, and privacy settings.
 - Switch between multiple YouTube accounts.
- **Negative Test Cases:**
 - Fail to update account details.
 - Two-factor authentication code delivery fails.
 - Incorrect or outdated subscription/notification settings.
 - Switch account feature not working properly.

Gmail

1. User Registration and Login

- **Positive Test Cases:**
 - Successfully create a Gmail account with valid details.
 - Log in with correct email and password.
 - Log in using Google authentication on third-party websites.
 - Enable two-factor authentication for secure login.
 - Reset password using email or phone verification.
 - Sign out from all devices remotely.
- **Negative Test Cases:**
 - Fail to create an account due to an invalid email format.
 - Incorrect or mismatched passwords during registration.
 - Fail to log in due to incorrect email or password.
 - Failed two-factor authentication code delivery.
 - Login with an expired password reset link.

- Log in attempt with a deactivated account.

2. Email Composition and Sending

- **Positive Test Cases:**
 - Compose a new email and send it to a valid email address.
 - Send an email with CC/BCC recipients.
 - Send an email with an attachment (PDF, image, document).
 - Save a draft automatically while composing.
 - Use email formatting tools (bold, italic, underline, fonts).
 - Send emails with priority (important/starred).
- **Negative Test Cases:**
 - Fail to send an email due to an invalid recipient address.
 - Email not sent due to attachment size exceeding the limit.
 - Fail to save a draft due to network issues.
 - Incorrect formatting or broken text after sending.
 - Attachments corrupted or missing after sending.
 - CC/BCC recipients not receiving the email.

3. Receiving Emails

- **Positive Test Cases:**
 - Receive an email in the inbox from a valid sender.
 - View, download, and open attachments in received emails.
 - Display images from trusted senders.
 - View received email in conversation view (grouped).
 - Star/mark important received emails.
 - Receive emails in categorized tabs (Primary, Social, Promotions).
- **Negative Test Cases:**
 - Fail to receive an email due to server downtime.
 - Email landing in the wrong tab/category.
 - Email marked as spam by mistake.
 - Attachments not loading or corrupted in the received email.
 - Broken or missing images in the email body.
 - Incorrect grouping of emails in conversation view.

4. Email Attachments

- **Positive Test Cases:**
 - Attach a document (PDF, DOCX, etc.) to an outgoing email.
 - Upload and send image attachments.
 - Download attachments from received emails.
 - Attach multiple files and send in one email.
 - Preview attachments before sending or receiving.
- **Negative Test Cases:**
 - Fail to attach files due to size limitations (over 25 MB).
 - Attachments failing to upload due to network errors.
 - Corrupt file after attachment upload.
 - Fail to download or open received attachments.
 - Previewing unsupported file types before sending.
 - Loss of attachment during the sending process.

5. Drafts and Autosave

- **Positive Test Cases:**
 - Email drafts autosaved during composition.
 - Retrieve and edit saved drafts from the "Drafts" folder.
 - Discard drafts manually from the "Drafts" folder.
 - Draft updated and saved after making changes.
- **Negative Test Cases:**
 - Draft not saved due to a network error.
 - Fail to retrieve drafts from the "Drafts" folder.
 - Discarded drafts still showing up after deletion.
 - Failure to autosave when composing emails offline.

6. Spam and Junk Filters

- **Positive Test Cases:**
 - Receive suspicious emails in the "Spam" folder.
 - Automatically block emails marked as spam.
 - Manually mark an email as spam and move it to the spam folder.
 - Receive notifications for spam emails (optional).
 - Unmark non-spam emails and move them to the inbox.
- **Negative Test Cases:**
 - Legitimate emails marked as spam incorrectly.
 - Spam emails not being flagged and reaching the inbox.
 - Unable to mark an email as spam manually.
 - Spam folder not updating with new junk emails.
 - Unmarking emails as spam fails to move them back to the inbox.

7. Search and Filters

- **Positive Test Cases:**
 - Search emails by sender, subject, or keywords.
 - Use advanced filters to find specific emails (has

, before, after).
 - Filter emails by unread, starred, or categorized.
 - Apply custom filters for incoming emails (move to folder, apply label).
- **Negative Test Cases:**
 - Search function fails to retrieve relevant emails.
 - Advanced search filters returning incorrect or no results.
 - Failure to apply or save email filters.
 - Incorrect results displayed after applying custom filters.
 - Unable to search attachments within emails.

8. Labels and Folders

- **Positive Test Cases:**
 - Create and apply labels to organize emails.
 - Move emails to specific folders or apply multiple labels.
 - Access labeled emails in one view.

- Archive emails with labels for organization.
- Apply filters to automatically label incoming emails.
- **Negative Test Cases:**
 - Failure to create or edit a label.
 - Emails not appearing under the correct label.
 - Incorrect labeling or mislabeling of emails.
 - Archived labeled emails disappearing from inbox view.
 - Filter not applying labels correctly to incoming emails.

9. Email Forwarding

- **Positive Test Cases:**
 - Forward an email to another valid email address.
 - Forward email with attachments intact.
 - Set up automatic email forwarding to another account.
 - Manually forward emails from different folders (Inbox, Sent).
- **Negative Test Cases:**
 - Failure to forward emails due to attachment size issues.
 - Broken or missing attachments after forwarding.
 - Fail to set up email forwarding due to incorrect forwarding address.
 - Email forwarding not functioning due to incorrect account settings.
 - Email formatting breaking after forwarding.

10. Inbox Management and Sorting

- **Positive Test Cases:**
 - Mark emails as read/unread.
 - Archive or delete emails.
 - Sort emails by date, sender, subject, etc.
 - Organize emails using star or important markers.
 - Move multiple emails to folders or apply labels in bulk.
- **Negative Test Cases:**
 - Emails marked as read/unread not updating properly.
 - Deleted emails reappearing in the inbox after refresh.
 - Fail to sort emails by date or sender.
 - Starred emails not appearing in the "Starred" folder.
 - Unable to archive or delete multiple emails at once.

11. Notifications

- **Positive Test Cases:**
 - Receive desktop notifications for new emails.
 - Enable/disable email notifications from Gmail settings.
 - Receive email notifications on mobile devices.
 - Get notified for emails marked important/starred.
- **Negative Test Cases:**
 - Failure to receive desktop notifications.
 - Notifications not showing on mobile devices.
 - Delayed or missing notifications for important emails.
 - Notifications appearing for spam or unwanted emails.

12. Contacts and Groups

- **Positive Test Cases:**
 - Add new contacts to the Gmail contact list.
 - Edit and update existing contacts.
 - Create a contact group for mass emailing.
 - Import/export contacts from/to CSV or vCard files.
- **Negative Test Cases:**
 - Fail to save or update a new contact.
 - Contacts not syncing across devices.
 - Contact group failing to send emails to all recipients.
 - Importing contacts from a CSV file fails due to formatting issues.

13. Account Settings and Management

- **Positive Test Cases:**
 - Update account settings (name, signature, language).
 - Change Gmail password.
 - Set up a vacation responder.
 - Configure email signature.
 - Enable/disable keyboard shortcuts for faster navigation.
 - Manage account privacy and security settings.
- **Negative Test Cases:**
 - Fail to update account settings.
 - Password change not taking effect immediately.
 - Vacation responder not sending automated replies.
 - Email signature not appearing in sent emails.
 - Fail to enable/disable security settings like two-factor authentication.

14. Spam and Phishing Protection

- **Positive Test Cases:**
 - Identify and block phishing attempts using Gmail's built-in spam filter.
 - Report suspicious emails as phishing attempts.
 - Warn users about harmful attachments.
 - Block and unsubscribe from unwanted email senders.
- **Negative Test Cases:**
 - Fail to identify a phishing email as spam.
 - Unable to report an email as a phishing attempt.
 - Harmful attachments bypassing Gmail's filter.
 - Fail to block or unsubscribe from an email sender.

15. Mobile Gmail App

- **Positive Test Cases:**
 - Successfully log in and sync Gmail on the mobile app.
 - Compose and send emails via the mobile app.
 - Receive email notifications and push notifications.
 - View and download attachments on mobile.
 - Switch between multiple Gmail accounts on the mobile app.
- **Negative Test Cases:**

- Mobile app fails to sync new emails.
- Issues with composing emails due to touch input problems.
- Attachments not downloading on mobile.
- Notifications not appearing on mobile.
- App crashes when switching between accounts.

Airbnb

1. User Registration and Login

- **Positive Test Cases:**
 - Successfully create an Airbnb account with valid information (email/phone number).
 - Login using correct email and password.
 - Login with social media accounts (Google, Facebook, etc.).
 - Successfully reset the password via email link.
 - Enable two-factor authentication for secure login.
- **Negative Test Cases:**
 - Fail to create an account due to invalid email/phone number format.
 - Fail to log in with an incorrect password or email.
 - Failed password reset due to an expired or incorrect reset link.
 - Fail to log in due to disabled or deleted account.
 - Two-factor authentication code not received or invalid.

2. Property Search and Filters

- **Positive Test Cases:**
 - Search for properties using valid locations, check-in/check-out dates, and guest count.
 - Apply filters such as price range, amenities (Wi-Fi, pool, kitchen), and property type.
 - Sort properties by price, rating, or distance from the city center.
 - View properties on the map view for location reference.
 - Search for properties available for instant booking.
- **Negative Test Cases:**
 - Fail to search due to invalid location or date range.
 - No properties found matching overly specific filters.
 - Filters not working or applying correctly (e.g., price range or amenities).
 - Incorrect or broken property sorting by price/rating.
 - Properties displayed outside the map area or wrong location.

3. Property Listing Details

- **Positive Test Cases:**
 - View property images, description, and amenities.
 - Read guest reviews and ratings.
 - Check availability calendar for selected dates.
 - View host information and contact host feature.
 - Check property rules (e.g., no pets, smoking).
- **Negative Test Cases:**
 - Missing or broken property images.
 - Incorrect availability dates shown on the calendar.
 - Reviews not loading or showing incorrectly.

- Inaccurate or missing property information.
- Host contact option not working.

4. Booking a Property

- **Positive Test Cases:**
 - Successfully book a property with valid dates and guest information.
 - Book a property using instant booking without waiting for host approval.
 - Add special requests or messages to the host before booking.
 - Apply discount codes or coupons during booking.
 - Receive confirmation email after successful booking.
- **Negative Test Cases:**
 - Fail to book due to property being unavailable on selected dates.
 - Booking request rejected by the host.
 - Incorrect guest or date information entered during booking.
 - Discount codes not applied or rejected.
 - Fail to receive booking confirmation email.

5. Booking Cancellation and Modifications

- **Positive Test Cases:**
 - Successfully cancel a booking before the check-in date.
 - Modify booking dates or number of guests before the check-in date.
 - Request a refund for a canceled booking within the refund policy.
 - Receive a booking modification approval from the host.
 - Receive confirmation of successful cancellation or modification.
- **Negative Test Cases:**
 - Fail to cancel booking due to non-refundable policy.
 - Fail to modify booking due to unavailable dates or guest limits.
 - Request for refund denied by the host.
 - Booking changes not reflected or updated in the booking confirmation.
 - Cancellation charges applied incorrectly outside of policy terms.

6. Payments

- **Positive Test Cases:**
 - Make a successful payment using valid credit/debit card details.
 - Use alternative payment methods like PayPal or bank transfer.
 - Apply payment split option (pay part now, part later).
 - View payment breakdown, including taxes, service fees, and cleaning fees.
 - Secure payment processing with encrypted connection.
- **Negative Test Cases:**
 - Fail to process payment due to incorrect card details or expired card.
 - Payment gateway issues or server downtime.
 - Incorrect payment amount charged.
 - Split payment not applied or rejected.
 - Payment method not accepted (e.g., unsupported card or country).

7. Reviews and Ratings

- **Positive Test Cases:**

- Leave a review after staying at a property.
- Rate the property based on cleanliness, location, communication, etc.
- Edit or delete a review before it's posted publicly.
- View reviews and ratings left by other guests.
- Host leaves a review for the guest after the stay.
- **Negative Test Cases:**
 - Unable to leave a review due to time restrictions (e.g., review window closed).
 - Review not posted or visible after submission.
 - Incorrect rating system functionality.
 - Guest review removed or blocked by Airbnb without reason.
 - Host unable to leave a review for a guest.

8. Messaging and Communication

- **Positive Test Cases:**
 - Send a message to the host before or after booking.
 - Receive notifications for new messages.
 - View message history between guest and host.
 - Use Airbnb's secure messaging platform to communicate.
- **Negative Test Cases:**
 - Fail to send messages due to connectivity issues.
 - Host not receiving guest messages.
 - Delayed or missing notifications for new messages.
 - Broken message history or chat interface issues.
 - Messages lost or not appearing after sending.

9. User Profile Management

- **Positive Test Cases:**
 - Update profile information, including name, bio, and profile picture.
 - Verify email and phone number for account security.
 - Link social media accounts for faster login.
 - Manage payment methods, including adding or removing cards.
 - View and manage past booking history.
- **Negative Test Cases:**
 - Unable to update profile details due to incorrect format or missing information.
 - Fail to verify phone number or email.
 - Linked social media account fails to sync or login.
 - Payment methods not updating or removed incorrectly.
 - Past booking history not loading or incomplete.

10. Favorites and Wishlist

- **Positive Test Cases:**
 - Add properties to a wishlist for future reference.
 - Create multiple wishlists based on different destinations or preferences.
 - Share wishlists with friends or family.
 - View and manage previously saved wishlists.
- **Negative Test Cases:**
 - Fail to add properties to wishlist due to account or network issues.
 - Wishlist not updated or saved after adding properties.

- Error in creating or naming a new wishlist.
- Unable to share wishlist due to broken links or interface.
- Missing or lost wishlists after account update.

11. Property Hosting (For Hosts)

- **Positive Test Cases:**
 - Create a new property listing with all required information (images, amenities, price).
 - Set property availability, pricing, and booking rules.
 - Manage incoming booking requests and approve/decline.
 - Communicate with guests through Airbnb's platform.
 - Update property listing information as required (price, description).
- **Negative Test Cases:**
 - Fail to create a new listing due to missing or invalid information.
 - Incorrect pricing or availability shown to guests.
 - Inability to respond to booking requests or approve them.
 - Failed communication between host and guests via the platform.
 - Broken interface for updating property details.

12. Security and Privacy

- **Positive Test Cases:**
 - Secure account access using strong passwords and two-factor authentication.
 - Report a suspicious user or property listing.
 - Manage data privacy and consent settings.
 - Enable/disabling account sharing features with third parties.
- **Negative Test Cases:**
 - Fail to report a suspicious activity or listing.
 - Privacy settings not updating as per user preference.
 - Two-factor authentication failing or codes not delivered.
 - Data privacy settings ignored or incorrectly applied.

13. Maps and Location

- **Positive Test Cases:**
 - View property location on the map relative to key landmarks.
 - Calculate distance from property to specific points of interest.
 - Switch between map and satellite view.
 - Use location filters to search properties within a specific radius.
- **Negative Test Cases:**
 - Incorrect property location displayed on the map.
 - Distance calculations inaccurate or not showing.
 - Map or satellite view not loading properly.
 - Unable to filter properties based on proximity.

14. Mobile App

- **Positive Test Cases:**
 - Install and log in to the Airbnb mobile app.
 - Use the app to search for properties and book stays.
 - Receive push notifications for messages, booking confirmations, and reminders.

- Manage bookings and view itineraries on mobile.
- Switch between multiple accounts in the app.
- **Negative Test Cases:**
 - Fail to log in or sync the account on the mobile app.
 - Properties not loading or slow performance in search.
 - Missing push notifications for important updates.
 - Crashes or freezes when managing bookings.
 - Unable to switch between accounts due to app bugs.

15. Discounts and Coupons

- **Positive Test Cases:**
 - Successfully apply a discount code or coupon during booking.
 - Redeem referral bonuses or Airbnb credits.
 - View available promotional offers in the account.
- **Negative Test Cases:**
 - Invalid or expired discount codes not applied.
 - Referral bonuses not reflected in the final payment.
 - Promo codes missing or not displayed in the account.

Twitter (X)

1. User Registration and Login

- **Positive Test Cases:**
 - Successfully register a new account with a valid email/phone number and password.
 - Log in using valid email/username and password.
 - Log in using social media accounts (Google, Apple ID).
 - Successfully reset the password using the password recovery feature.
 - Log in with two-factor authentication enabled.
- **Negative Test Cases:**
 - Fail to register due to an invalid email/phone number.
 - Fail to log in with incorrect email/username and password.
 - Fail to reset password with an invalid or expired reset link.
 - Fail to log in due to incorrect two-factor authentication code.
 - Fail to log in due to an inactive or suspended account.

2. User Profile Management

- **Positive Test Cases:**
 - Successfully update profile details (bio, profile picture, header image, display name, etc.).
 - Change privacy settings (protected tweets, location, tagging, etc.).
 - Change username (handle) successfully.
 - Add or update a website link in the profile.
 - Set profile visibility to public or private.
- **Negative Test Cases:**
 - Fail to update profile due to an invalid username format.
 - Fail to upload profile picture due to unsupported image format.
 - Privacy settings fail to apply correctly (e.g., protected tweets not enforced).
 - Fail to add website link due to invalid URL format.

- Fail to set profile visibility due to a server error or broken settings.

3. Tweet Creation and Interaction

- **Positive Test Cases:**
 - Successfully post a tweet with text only.
 - Successfully post a tweet with images, GIFs, or videos.
 - Post a tweet with hashtags, mentions, and URLs.
 - Retweet, like, and reply to tweets successfully.
 - Schedule a tweet to be posted at a later time.
 - Create a poll within a tweet.
- **Negative Test Cases:**
 - Fail to post a tweet with invalid media formats.
 - Fail to post a tweet exceeding the character limit.
 - Fail to retweet or like due to connectivity issues or restricted content.
 - Scheduled tweet not posted at the correct time.
 - Fail to create a poll due to incorrect option count or invalid input.

4. Hashtags and Mentions

- **Positive Test Cases:**
 - Use hashtags in tweets and view them as clickable links.
 - Mention other users by @username, and ensure they are notified.
 - Trending hashtags appear correctly based on location or global trends.
 - Search for tweets with specific hashtags or mentions.
- **Negative Test Cases:**
 - Hashtags not functioning as clickable links.
 - Mentioned users not receiving notifications.
 - Incorrect trending hashtags based on location settings.
 - Search results for specific hashtags or mentions are incomplete or inaccurate.

5. Search Functionality

- **Positive Test Cases:**
 - Search for tweets, users, and hashtags using the search bar.
 - Use filters to refine search results (tweets, people, media, links).
 - Search for trending topics based on location.
 - Successfully find users by typing their name or handle in the search bar.
- **Negative Test Cases:**
 - Fail to return search results for certain keywords or hashtags.
 - Search filters not working correctly (e.g., showing irrelevant media).
 - Incorrect or outdated trending topics displayed.
 - Search results missing tweets or users that should be relevant.

6. Followers and Following

- **Positive Test Cases:**
 - Follow another user successfully.
 - Unfollow a user and ensure no longer receiving their tweets on the timeline.
 - Receive a notification when followed by another user (if enabled).
 - View the list of followers and accounts the user follows.

- Successfully enable/disable notifications for a specific user.
- **Negative Test Cases:**
 - Fail to follow/unfollow users due to connectivity issues.
 - Incorrect follower/following count displayed.
 - Notifications for new followers not received.
 - Fail to enable/disable notifications for a specific user.
 - Follow/unfollow action not reflected in the user's profile.

7. Timeline and Feed

- **Positive Test Cases:**
 - View a personalized timeline with tweets from followed users.
 - Scroll through the feed and load older tweets successfully.
 - View promoted or sponsored tweets in the feed.
 - Refresh the timeline to see new tweets from followed accounts.
 - Like, retweet, or reply to tweets directly from the feed.
- **Negative Test Cases:**
 - Fail to load the timeline due to connectivity issues.
 - Timeline not updating with new tweets despite refresh attempts.
 - Sponsored/promoted tweets not displaying correctly or showing irrelevant content.
 - Fail to load multimedia content (images/videos) in the timeline.
 - Actions like like/retweet not reflected in the feed.

8. Direct Messaging (DM)

- **Positive Test Cases:**
 - Send and receive direct messages to/from another user.
 - Send media (images, GIFs, videos) in direct messages.
 - Create group chats with multiple users.
 - Mute or block a user in direct messages.
 - Receive notifications for new direct messages.
- **Negative Test Cases:**
 - Fail to send a direct message due to user privacy settings or server issues.
 - Multimedia content not sent or received correctly in direct messages.
 - Group chat creation fails due to participant limit or connection issues.
 - Fail to mute or block a user in DMs.
 - Direct message notifications delayed or not received.

9. Notifications

- **Positive Test Cases:**
 - Receive notifications for mentions, likes, retweets, and replies.
 - Customize notification settings for specific activities (e.g., only mentions).
 - View push notifications on mobile devices.
 - Mark all notifications as read in the notifications tab.
 - Mute notifications from a specific user or topic.
- **Negative Test Cases:**
 - Fail to receive notifications for likes, mentions, or replies.
 - Incorrect notifications (e.g., receiving mentions for unrelated users).
 - Delayed notifications or failure to display on mobile devices.
 - Fail to mute/unmute notifications for a specific user or topic.

- Push notifications appearing multiple times for the same event.

10. Lists

- **Positive Test Cases:**
 - Create a new list of users.
 - Add/remove users to/from a list.
 - View tweets only from users in a specific list.
 - Edit or delete existing lists.
 - Make a list public or private.
- **Negative Test Cases:**
 - Fail to create a new list due to a server issue.
 - Fail to add/remove users to/from a list due to incorrect account details.
 - Tweets from users in the list not loading correctly.
 - Fail to edit or delete a list.
 - Privacy settings for lists (public/private) not applied correctly.

11. Account Privacy and Security

- **Positive Test Cases:**
 - Enable two-factor authentication for secure login.
 - Lock the account to restrict followers and protect tweets.
 - Change password successfully.
 - Block or mute users from interacting with the account.
 - Report spam or suspicious activities.
- **Negative Test Cases:**
 - Fail to enable two-factor authentication due to verification issues.
 - Privacy settings (protected tweets, direct messages) not enforced correctly.
 - Fail to block or mute users due to server or connectivity issues.
 - Report spam or harassment feature not working.
 - Account recovery process fails after hacking or security breach.

12. Trending and Explore Tab

- **Positive Test Cases:**
 - View trending topics globally or by region.
 - Explore tweets, news, and stories related to specific categories (news, sports, entertainment).
 - Search and view Twitter Moments.
 - Follow hashtags or topics from the Explore tab.
- **Negative Test Cases:**
 - Incorrect or irrelevant trending topics displayed.
 - Fail to load explore content due to server or connectivity issues.
 - Twitter Moments fail to load or display outdated information.
 - Hashtags or topics in the Explore tab not updating with new tweets.

13. Media Upload

- **Positive Test Cases:**
 - Upload images, GIFs, or videos when posting a tweet.
 - Upload profile and cover images from different devices (web/mobile).
 - Edit and crop images before posting.

- Post videos within Twitter's video length and size limit.
- **Negative Test Cases:**
 - Fail to upload media due to unsupported file formats or large file sizes.
 - Profile/cover image upload fails or results in poor quality.
 - Fail to crop or edit images properly.
 - Videos not playing correctly after upload.

14. Blocking, Muting, and Reporting

- **Positive Test Cases:**
 - Successfully block or mute a user from the profile or tweet.
 - Report inappropriate content (e.g., spam, harassment, violence).
 - Mute specific words or hashtags to prevent them from appearing in the timeline.
 - View the list of blocked or muted users in account settings.
- **Negative Test Cases:**
 - Fail to block or mute a user due to connectivity or account issues.
 - Report feature not functioning or failing to submit reports.
 - Muted words or hashtags still appearing in the timeline.
 - Blocked users can still interact with tweets or profile content.

LinkedIn

1. User Registration and Login

- **Positive Test Cases:**
 - Successfully register a new account with a valid email/phone number and password.
 - Log in using valid email/username and password.
 - Log in using social media accounts (Google, Apple ID).
 - Successfully reset the password using the password recovery feature.
 - Log in with two-factor authentication enabled.
- **Negative Test Cases:**
 - Fail to register due to invalid email/phone number or weak password.
 - Fail to log in with incorrect email/username and password.
 - Fail to reset password with an invalid or expired reset link.
 - Fail to log in due to incorrect two-factor authentication code.
 - Fail to log in due to an inactive or suspended account.

2. Profile Management

- **Positive Test Cases:**
 - Successfully update profile details (headline, summary, profile picture, cover photo, experience, education, etc.).
 - Add or update skills, endorsements, and certifications.
 - Customize privacy settings (visibility of profile, activity, connections).
 - Change the LinkedIn URL or username.
 - Add or update contact information (email, phone number).
- **Negative Test Cases:**
 - Fail to update profile details due to invalid inputs (e.g., unsupported file types for images).
 - Privacy settings fail to apply correctly (e.g., profile still visible to non-connections).
 - Fail to change LinkedIn URL due to already taken username.

- Contact information not updated or displayed correctly.

3. Networking and Connections

- **Positive Test Cases:**
 - Send and receive connection requests.
 - Accept, reject, or ignore connection requests.
 - View and manage connections list.
 - Follow or unfollow users.
 - Endorse skills of connections and write recommendations.
- **Negative Test Cases:**
 - Fail to send connection requests due to invalid user or account issues.
 - Fail to accept or reject connection requests due to server issues.
 - Connection list not updating or displaying incorrect information.
 - Fail to follow/unfollow users due to connectivity issues.
 - Endorsements or recommendations not saved or displayed.

4. Job Search and Applications

- **Positive Test Cases:**
 - Search for jobs using filters (location, company, industry, job type).
 - Apply for jobs using the LinkedIn Easy Apply feature.
 - Save jobs to the job board or apply later.
 - Receive job recommendations based on profile and activity.
 - Update or upload resumes and cover letters.
- **Negative Test Cases:**
 - Search results not displaying relevant jobs or not updating correctly.
 - Fail to apply for jobs due to application form errors or connectivity issues.
 - Saved jobs not appearing on the job board.
 - Job recommendations not relevant to the user's profile or activity.
 - Fail to upload or update resume/cover letter due to file format issues.

5. Messaging

- **Positive Test Cases:**
 - Send and receive messages to/from connections.
 - Send multimedia content (images, files, videos) in messages.
 - Create and manage group conversations.
 - Archive or delete conversations.
 - Enable and receive notifications for new messages.
- **Negative Test Cases:**
 - Fail to send or receive messages due to network or server issues.
 - Multimedia content not sending or displaying correctly.
 - Fail to create or manage group conversations due to connectivity issues.
 - Archived or deleted conversations still appearing in the inbox.
 - Messaging notifications delayed or not received.

6. Notifications

- **Positive Test Cases:**
 - Receive notifications for connection requests, messages, endorsements, and job alerts.

- Customize notification settings (email, mobile push, in-app).
- View notifications in the notifications tab.
- Mark all notifications as read.
- **Negative Test Cases:**
 - Fail to receive notifications for important activities.
 - Notification settings not saving or applying correctly.
 - Notifications delayed or not appearing in the notifications tab.
 - Fail to mark notifications as read or clear notification badge.

7. Content Sharing and Interaction

- **Positive Test Cases:**
 - Share posts, articles, and updates on the news feed.
 - Like, comment, and share posts from others.
 - Post and interact with multimedia content (images, videos).
 - Create and join LinkedIn groups or discussions.
 - Share content to personal profile or LinkedIn groups.
- **Negative Test Cases:**
 - Fail to share or post content due to invalid inputs or server issues.
 - Likes, comments, or shares not reflected on the post.
 - Multimedia content not uploading or displaying correctly.
 - Fail to create or join groups due to server or network issues.
 - Shared content not appearing on the news feed or in groups.

8. Events and Webinars

- **Positive Test Cases:**
 - Create and manage LinkedIn events or webinars.
 - Invite connections to events and track RSVPs.
 - View upcoming and past events in the events tab.
 - Join or follow events and webinars.
 - Share event details on the profile or news feed.
- **Negative Test Cases:**
 - Fail to create or manage events due to server issues or invalid details.
 - Invitations not sent or RSVPs not recorded.
 - Events tab not displaying correct or updated information.
 - Fail to join or follow events due to connectivity issues.
 - Shared event details not appearing correctly on the profile or news feed.

9. Profile Search and Discovery

- **Positive Test Cases:**
 - Search for users by name, company, or job title.
 - Use filters to refine search results (location, industry, etc.).
 - View and follow users' profiles from search results.
 - Discover profiles based on mutual connections or interests.
- **Negative Test Cases:**
 - Search results not displaying relevant profiles or information.
 - Filters not applying correctly or returning incorrect results.
 - Fail to view or follow user profiles due to server or connectivity issues.
 - Discovery features not showing accurate mutual connections or interests.

10. Account Privacy and Security

- **Positive Test Cases:**
 - Enable two-factor authentication for secure login.
 - Customize privacy settings for profile visibility and activity.
 - Report or block users or content.
 - Review and manage connected apps and security settings.
 - Change account password successfully.
- **Negative Test Cases:**
 - Fail to enable two-factor authentication due to verification issues.
 - Privacy settings not applied correctly or profile visibility issues.
 - Fail to report or block users/content due to server issues.
 - Connected apps and security settings not updating or showing incorrect information.
 - Password change process fails or causes account access issues.

11. LinkedIn Learning

- **Positive Test Cases:**
 - Access and complete LinkedIn Learning courses.
 - Save courses to your learning list or bookmark for later.
 - View and track course progress and certifications.
 - Receive recommendations for courses based on profile and interests.
- **Negative Test Cases:**
 - Fail to access or start courses due to subscription or account issues.
 - Courses not saving or bookmarking correctly.
 - Progress tracking or certification not updating.
 - Course recommendations not relevant to user's profile or interests.

12. Company Pages and Content

- **Positive Test Cases:**
 - Create and manage a company page.
 - Post updates, job listings, and content on the company page.
 - View and interact with company content.
 - Track company page analytics and engagement metrics.
- **Negative Test Cases:**
 - Fail to create or manage company pages due to server issues.
 - Company posts or updates not displaying or interacting correctly.
 - Fail to track or view analytics and engagement metrics.
 - Company page not showing accurate information or updates.

WhatsApp

1. User Registration and Login

- **Positive Test Cases:**
 - Successfully register with a valid phone number and verification code.
 - Log in using the registered phone number and verification code.
 - Restore account from a backup successfully.
 - Log in using the WhatsApp Web QR code feature.

- **Negative Test Cases:**
 - Fail to register with an invalid phone number or incorrect verification code.
 - Fail to log in with an incorrect phone number or expired verification code.
 - Restore account fails due to an invalid backup file or incompatible backup.
 - Fail to log in using the WhatsApp Web QR code due to connection issues or invalid QR code.

2. Messaging

- **Positive Test Cases:**
 - Send and receive text messages to/from contacts.
 - Send and receive multimedia messages (images, videos, audio).
 - Send and receive voice messages.
 - Use and view message status (delivered, read).
 - Search and retrieve specific messages from chat history.
 - Pin or unpin chats for easy access.
- **Negative Test Cases:**
 - Fail to send or receive messages due to network issues.
 - Multimedia messages fail to send or display incorrectly.
 - Voice messages not playing or saving correctly.
 - Message status not updating (e.g., message stuck at "delivered" status).
 - Search functionality fails to find specific messages or shows incorrect results.
 - Pin or unpin chats operation fails or causes incorrect chat display.

3. Voice and Video Calls

- **Positive Test Cases:**
 - Initiate and receive voice calls with clear audio quality.
 - Initiate and receive video calls with clear video and audio quality.
 - Switch between voice and video call during an ongoing call.
 - Use and manage in-call features (mute, speaker, video on/off).
 - Add participants to ongoing calls (for group calls).
- **Negative Test Cases:**
 - Fail to initiate or receive calls due to network issues or app malfunction.
 - Poor audio or video quality due to connection issues or hardware problems.
 - In-call features (mute, speaker) not working as expected.
 - Fail to add participants to group calls or experience issues with call stability.
 - Video calls freezing or crashing during usage.

4. Media Sharing

- **Positive Test Cases:**
 - Share and receive various media types (images, videos, documents, contacts).
 - Use media editing tools (crop, rotate, add text) before sharing.
 - Save received media to the gallery or files.
 - Share media in individual and group chats.
- **Negative Test Cases:**
 - Fail to share or receive media due to file size limitations or unsupported formats.
 - Media editing tools not working or causing errors.
 - Received media not saving correctly to the gallery or files.
 - Media not displaying correctly in chats or experiencing load issues.

5. Settings and Privacy

- **Positive Test Cases:**
 - Update profile information (name, profile picture, status).
 - Configure privacy settings (last seen, profile photo, status visibility).
 - Manage notification settings (message notifications, call notifications).
 - Enable or disable two-step verification.
 - Manage data usage settings (download media on Wi-Fi, data-saving mode).
- **Negative Test Cases:**
 - Fail to update profile information due to input errors or server issues.
 - Privacy settings not applying correctly or not saving.
 - Notification settings not working as expected (notifications not received).
 - Two-step verification setup or changes fail.
 - Data usage settings not applying or causing excessive data consumption.

6. Group Management

- **Positive Test Cases:**
 - Create and manage groups (name, description, group icon).
 - Add and remove group members.
 - Assign and change group admin roles.
 - Send and receive messages within groups.
 - Manage group settings (invite links, group info).
- **Negative Test Cases:**
 - Fail to create or manage groups due to server issues or invalid inputs.
 - Issues adding or removing group members.
 - Admin role changes not applied or causing incorrect group management.
 - Group messages not sending or displaying correctly.
 - Group settings (invite links, group info) not updating or showing incorrect information.

7. WhatsApp Web/Desktop

- **Positive Test Cases:**
 - Successfully connect and sync WhatsApp Web/Desktop with the mobile app.
 - Send and receive messages through WhatsApp Web/Desktop.
 - View and manage chats and media on WhatsApp Web/Desktop.
 - Log out from WhatsApp Web/Desktop session.
- **Negative Test Cases:**
 - Fail to connect or sync WhatsApp Web/Desktop due to QR code issues or network problems.
 - Issues sending or receiving messages on WhatsApp Web/Desktop.
 - WhatsApp Web/Desktop not syncing messages or showing outdated information.
 - Fail to log out or manage sessions properly on WhatsApp Web/Desktop.

8. Backup and Restore

- **Positive Test Cases:**
 - Create a backup of chat history and media to cloud storage (Google Drive, iCloud).
 - Restore chat history and media from a backup successfully.
 - Schedule automatic backups and verify backup frequency.
- **Negative Test Cases:**
 - Backup creation fails due to network issues or storage limitations.

- Restore process fails or causes loss of chat history/media.
- Backup and restore features not working as expected (e.g., incomplete restore).
- Issues with automatic backup schedules or frequency.

9. Account Management

- **Positive Test Cases:**
 - Deactivate or delete the WhatsApp account successfully.
 - Reactivate a deactivated account or register a new account with the same number.
 - Manage linked devices (e.g., remove or add devices).
- **Negative Test Cases:**
 - Fail to deactivate or delete the account due to server issues or incorrect steps.
 - Reactivation of a deactivated account fails or causes account conflicts.
 - Issues managing linked devices (e.g., devices not syncing or removing correctly).

10. Security and Reporting

- **Positive Test Cases:**
 - Report and block contacts or content (spam, harassment) effectively.
 - Review and manage security settings and active sessions.
 - Enable and use fingerprint or facial recognition for additional security.
- **Negative Test Cases:**
 - Reporting or blocking contacts/content fails or causes errors.
 - Security settings or active sessions management not updating or showing incorrect information.
 - Issues with biometric security features (fingerprint, facial recognition) not functioning correctly.

Netflix

1. User Account Management

- **Positive Test Cases:**
 - Successfully sign up with a valid email and payment method.
 - Log in with correct credentials (email and password).
 - Log out of the account from different devices.
 - Reset password successfully using the email recovery link.
 - Update profile information (name, email, payment details).
 - Add and manage multiple user profiles under a single account.
- **Negative Test Cases:**
 - Fail to sign up with invalid email format or payment details.
 - Fail to log in with incorrect credentials (email or password).
 - Issues logging out or staying logged in across devices.
 - Fail to reset password due to invalid email or recovery link issues.
 - Fail to update profile information due to invalid inputs or server issues.
 - Issues adding or managing profiles (e.g., errors in profile creation or deletion).

2. Content Browsing

- **Positive Test Cases:**
 - Search for specific movies or TV shows using the search bar.
 - Browse content by genre, category, or recommendations.

- Filter search results by year, rating, or popularity.
- View detailed information about a movie or show (synopsis, cast, ratings).
- Use content recommendation algorithms to find new content.
- **Negative Test Cases:**
 - Search functionality fails or returns incorrect results.
 - Browsing by genre/category shows empty or incorrect listings.
 - Filters return irrelevant or incorrect content.
 - Detailed information about movies/shows is missing or incorrect.
 - Recommendations are irrelevant or repetitive.

3. Streaming and Playback

- **Positive Test Cases:**
 - Start streaming a movie or TV show without issues.
 - Pause, resume, and seek within the video content.
 - Adjust video quality settings (auto, low, medium, high).
 - Use subtitle and audio track options effectively.
 - Continue watching from the last viewed position on different devices.
 - Add content to "My List" and access it later.
- **Negative Test Cases:**
 - Fail to start streaming due to network issues or server problems.
 - Issues with pausing, resuming, or seeking in the video.
 - Problems with adjusting video quality settings or buffering issues.
 - Subtitle or audio track options not available or malfunctioning.
 - Fail to resume playback from the last position or syncing issues across devices.
 - Issues adding or accessing content in "My List".

4. Device and Playback Management

- **Positive Test Cases:**
 - Stream content on multiple devices simultaneously (within account limits).
 - Manage and remove devices from the account settings.
 - Use Chromecast, smart TV, or other connected devices for streaming.
- **Negative Test Cases:**
 - Fail to stream content on multiple devices simultaneously if account limits are exceeded.
 - Issues managing or removing devices from the account settings.
 - Problems with streaming on Chromecast, smart TVs, or other devices (e.g., connectivity issues).

5. Subscription and Billing

- **Positive Test Cases:**
 - Subscribe to different plans (Basic, Standard, Premium) and verify access.
 - View and download billing statements and payment history.
 - Update payment methods and verify billing changes.
 - Cancel subscription and ensure account access is terminated at the end of the billing cycle.
- **Negative Test Cases:**
 - Fail to subscribe or upgrade/downgrade plans due to payment issues or server errors.
 - Issues viewing or downloading billing statements.
 - Fail to update payment methods or incorrect billing charges.
 - Issues canceling subscription or continued access after cancellation.

6. Content Restrictions and Parental Controls

- **Positive Test Cases:**
 - Set up and manage parental controls and content restrictions.
 - Create PINs or passwords for accessing restricted content.
 - Enable and manage viewing restrictions by age or content rating.
- **Negative Test Cases:**
 - Issues setting up or managing parental controls and content restrictions.
 - Fail to create or use PINs/passwords for restricted content.
 - Content restrictions not applying or being bypassed.

7. Search and Recommendations

- **Positive Test Cases:**
 - Search for specific content by title, actor, or director.
 - Receive accurate and relevant recommendations based on viewing history.
 - Use advanced search filters to find content (e.g., by genre, release year).
- **Negative Test Cases:**
 - Search function returns no results or irrelevant results.
 - Recommendations are irrelevant or repetitive based on viewing history.
 - Advanced search filters do not work or return incorrect results.

8. User Interface and Experience

- **Positive Test Cases:**
 - Navigate through the app with an intuitive and responsive interface.
 - Access content and settings quickly and easily.
 - Ensure UI elements (buttons, menus, icons) are functioning correctly.
- **Negative Test Cases:**
 - Issues with navigating the app due to a non-responsive or confusing interface.
 - Problems accessing content or settings due to UI element malfunctions.
 - Inconsistent design or layout issues affecting usability.

9. Security and Privacy

- **Positive Test Cases:**
 - Secure account with two-factor authentication (if available).
 - Manage privacy settings (e.g., sharing activity, account visibility).
 - Review and manage data usage and permissions.
- **Negative Test Cases:**
 - Fail to enable or use two-factor authentication.
 - Issues managing privacy settings or incorrect application of settings.
 - Problems with data usage or permissions not being correctly managed.

10. Offline Viewing

- **Positive Test Cases:**
 - Download content for offline viewing and verify successful download.
 - Play downloaded content without an active internet connection.
 - Manage and delete downloaded content from the device.
- **Negative Test Cases:**

- Fail to download content or incomplete downloads.
- Issues playing downloaded content without an internet connection.
- Problems managing or deleting downloaded content.

Spotify

1. User Account Management

- **Positive Test Cases:**
 - Sign up with a valid email, password, and other required information.
 - Log in with correct credentials (email and password).
 - Log out of the account from different devices.
 - Reset password using the email recovery link.
 - Update profile information (name, email, payment details).
 - Switch between Free and Premium subscriptions and verify changes.
- **Negative Test Cases:**
 - Fail to sign up with invalid email format or missing information.
 - Fail to log in with incorrect credentials (email or password).
 - Issues logging out or staying logged in across devices.
 - Fail to reset password due to invalid email or recovery link issues.
 - Fail to update profile information due to invalid inputs or server issues.
 - Issues with switching subscriptions (e.g., errors in upgrading/downgrading plans).

2. Music Playback

- **Positive Test Cases:**
 - Play a song, album, or playlist successfully.
 - Pause, resume, skip, and rewind tracks.
 - Adjust playback volume and balance settings.
 - Use shuffle and repeat functionalities.
 - Play music on different devices (smartphone, tablet, computer).
 - Sync playback across multiple devices (e.g., play on phone and continue on computer).
- **Negative Test Cases:**
 - Fail to play a song or album due to network issues or file corruption.
 - Issues with pausing, resuming, skipping, or rewinding tracks.
 - Problems with adjusting volume or balance settings.
 - Shuffle or repeat functionalities not working as expected.
 - Problems playing music on certain devices or syncing playback across devices.
 - Playback interruptions due to account issues or app errors.

3. Content Browsing and Search

- **Positive Test Cases:**
 - Search for specific songs, albums, or artists using the search bar.
 - Browse music by genre, charts, or personalized recommendations.
 - Filter search results by release date, popularity, or other criteria.
 - View detailed information about songs, albums, or artists (e.g., album artwork, tracklist).
- **Negative Test Cases:**
 - Search functionality returns no results or irrelevant results.

- Browsing by genre or charts shows incorrect or incomplete listings.
- Filters return irrelevant or incorrect content.
- Detailed information about songs/albums/artists is missing or incorrect.

4. Playlist Management

- **Positive Test Cases:**
 - Create a new playlist and add songs to it.
 - Edit playlist details (name, description, cover image).
 - Delete songs from a playlist or remove the entire playlist.
 - Share playlists with other users or on social media.
 - Follow or unfollow playlists created by other users.
- **Negative Test Cases:**
 - Fail to create or save a playlist due to server issues or invalid inputs.
 - Issues with adding or removing songs from playlists.
 - Problems editing playlist details or uploading cover images.
 - Fail to share playlists or issues with sharing functionality.
 - Problems following or unfollowing playlists.

5. Music Recommendations

- **Positive Test Cases:**
 - Receive personalized music recommendations based on listening history.
 - Explore and follow curated playlists and recommendations.
 - Use the “Discover Weekly” or similar features to find new music.
- **Negative Test Cases:**
 - Recommendations are irrelevant or repetitive.
 - Issues with generating personalized recommendations.
 - Problems with discovering new music or using recommended playlists.

6. Offline Listening

- **Positive Test Cases:**
 - Download songs, albums, or playlists for offline listening.
 - Access and play downloaded content without an active internet connection.
 - Manage and delete downloaded content from the device.
- **Negative Test Cases:**
 - Fail to download content or incomplete downloads.
 - Issues playing downloaded content offline.
 - Problems managing or deleting downloaded content.

7. Account Settings and Preferences

- **Positive Test Cases:**
 - Update account settings such as privacy preferences, notification settings, and playback preferences.
 - Manage connected devices and account security settings.
 - Review and update payment details and subscription status.
- **Negative Test Cases:**
 - Fail to update account settings or preferences due to server issues.
 - Problems managing connected devices or account security settings.

- Issues with reviewing or updating payment details and subscription status.

8. Integration with Other Services

- **Positive Test Cases:**
 - Integrate with social media platforms for sharing music or playlists.
 - Connect with other apps or services (e.g., smart home devices) for enhanced functionality.
 - Use voice commands to control playback if supported.
- **Negative Test Cases:**
 - Fail to integrate with social media platforms or other services.
 - Issues connecting with smart home devices or using voice commands.
 - Problems with sharing music or playlists on social media.

9. User Interface and Experience

- **Positive Test Cases:**
 - Navigate through the app with an intuitive and responsive interface.
 - Access and manage features (playback, playlists, settings) quickly and easily.
 - Ensure UI elements (buttons, menus, icons) are functioning correctly.
- **Negative Test Cases:**
 - Issues with navigating the app due to a non-responsive or confusing interface.
 - Problems accessing or managing features due to UI element malfunctions.
 - Inconsistent design or layout issues affecting usability.

10. Security and Privacy

- **Positive Test Cases:**
 - Secure account with two-factor authentication (if available).
 - Manage privacy settings (e.g., sharing activity, account visibility).
 - Review and manage data usage and permissions.
- **Negative Test Cases:**
 - Fail to enable or use two-factor authentication.
 - Issues managing privacy settings or incorrect application of settings.
 - Problems with data usage or permissions not being correctly managed.

Slack

1. User Account Management

- **Positive Test Cases:**
 - Sign up with a valid email, password, and other required information.
 - Log in with correct credentials (email and password).
 - Log out from the Slack account on all devices.
 - Reset password using the email recovery link.
 - Update profile information (name, email, job title).
 - Change account settings (timezone, notification preferences).
- **Negative Test Cases:**
 - Fail to sign up with an invalid email format or missing information.

- Fail to log in with incorrect credentials (email or password).
- Issues logging out from all devices.
- Fail to reset password due to invalid email or expired recovery link.
- Problems updating profile information due to invalid inputs or server issues.
- Fail to change account settings or preferences due to application errors.

2. Messaging

- **Positive Test Cases:**
 - Send a direct message to a user and receive a reply.
 - Send a message to a channel and ensure all members can view it.
 - Edit a sent message and verify changes are reflected.
 - Delete a message and verify it is removed from the conversation.
 - Use mentions (@username) in messages and verify notifications.
 - Attach emojis and reactions to messages.
- **Negative Test Cases:**
 - Fail to send a message due to network issues.
 - Issues with sending or receiving messages in a specific channel or direct message.
 - Problems editing or deleting messages (e.g., permissions issues).
 - Fail to receive notifications for mentions or direct messages.
 - Issues with adding or removing emojis and reactions.

3. Channel Management

- **Positive Test Cases:**
 - Create a new channel (public or private) and verify its creation.
 - Invite users to a channel and verify they are added.
 - Remove users from a channel and ensure they no longer have access.
 - Archive a channel and verify it is no longer active.
 - Restore an archived channel and ensure it becomes active again.
- **Negative Test Cases:**
 - Fail to create a channel due to invalid input or permissions issues.
 - Issues inviting or removing users from a channel.
 - Problems archiving or restoring a channel.
 - Fail to access a channel due to permission or access issues.

4. File Sharing and Management

- **Positive Test Cases:**
 - Upload and share a file in a channel or direct message.
 - Download a shared file and verify successful download.
 - Preview files (e.g., images, documents) directly in Slack.
 - Delete a shared file and verify it is removed from the conversation.
 - Manage file permissions (view, edit) and verify access controls.
- **Negative Test Cases:**
 - Fail to upload or share a file due to size limits or network issues.
 - Issues downloading or previewing files (e.g., corrupted files).
 - Problems deleting a file or file permissions not updating correctly.
 - Fail to manage file permissions or access controls.

5. Notifications

- **Positive Test Cases:**
 - Receive notifications for direct messages, mentions, and channel activity.
 - Customize notification settings (e.g., sound, email notifications).
 - Test notification delivery on different devices (desktop, mobile).
- **Negative Test Cases:**
 - Fail to receive notifications for direct messages or mentions.
 - Issues with customizing or applying notification settings.
 - Problems with notification delivery or synchronization across devices.
 - Notifications not appearing for specific channels or messages.

6. Search Functionality

- **Positive Test Cases:**
 - Search for messages by keywords or phrases and verify results.
 - Search for files or channels using specific criteria.
 - Use advanced search options (e.g., filters by date, user) and verify accuracy.
- **Negative Test Cases:**
 - Fail to return relevant search results for messages, files, or channels.
 - Issues with advanced search options or filters not working correctly.
 - Search functionality returning errors or incomplete results.

7. Integrations and Apps

- **Positive Test Cases:**
 - Install and configure third-party apps or integrations (e.g., Google Drive, Trello).
 - Test app functionality (e.g., file sharing, task management) within Slack.
 - Integrate Slack with external services and verify successful connection.
- **Negative Test Cases:**
 - Fail to install or configure third-party apps or integrations.
 - Issues with app functionality or integration errors.
 - Problems with connecting Slack to external services or services not working as expected.

8. Team and Workspace Management

- **Positive Test Cases:**
 - Create and manage workspaces or teams.
 - Add and remove members from workspaces or teams.
 - Configure workspace settings (e.g., permissions, integrations).
- **Negative Test Cases:**
 - Fail to create or manage workspaces or teams due to permissions issues.
 - Issues adding or removing members from workspaces or teams.
 - Problems with configuring workspace settings or integrations.

9. User Interface and Experience

- **Positive Test Cases:**
 - Navigate through Slack's interface smoothly and intuitively.
 - Access and use features (e.g., channels, direct messages, settings) without issues.
 - Ensure UI elements (buttons, menus, icons) function correctly.
- **Negative Test Cases:**
 - Navigation issues due to a non-responsive or confusing interface.

- Problems accessing or using features due to UI element malfunctions.
- Inconsistent design or layout issues affecting usability.

10. Security and Privacy

- **Positive Test Cases:**
 - Ensure secure login with two-factor authentication (if enabled).
 - Manage privacy settings (e.g., profile visibility, message encryption).
 - Review and manage data usage and permissions.
- **Negative Test Cases:**
 - Fail to enable or use two-factor authentication.
 - Issues managing privacy settings or incorrect application of settings.
 - Problems with data usage or permissions not being correctly managed.

Zoom

1. User Account Management

- **Positive Test Cases:**
 - Sign up with a valid email and password.
 - Log in with correct credentials (email and password).
 - Reset password using the email recovery link.
 - Update profile information (name, profile picture, job title).
 - Change account settings (timezone, notification preferences).
- **Negative Test Cases:**
 - Fail to sign up with an invalid email format or missing information.
 - Fail to log in with incorrect credentials (email or password).
 - Issues with resetting the password due to invalid email or expired recovery link.
 - Problems updating profile information due to invalid inputs or server errors.
 - Fail to change account settings due to application errors.

2. Meeting Scheduling and Management

- **Positive Test Cases:**
 - Schedule a meeting with a valid date, time, and other details.
 - Edit meeting details and verify updates are reflected.
 - Cancel a scheduled meeting and ensure notifications are sent.
 - Reschedule a meeting and verify the new schedule.
 - Set up recurring meetings and ensure they follow the specified pattern.
- **Negative Test Cases:**
 - Fail to schedule a meeting with invalid date or time.
 - Issues editing or canceling a meeting due to server errors or permissions.
 - Problems with recurring meeting settings (e.g., incorrect frequency or end date).
 - Fail to receive notifications for meeting changes.

3. Meeting Join and Host Controls

- **Positive Test Cases:**
 - Join a meeting using a valid link or meeting ID.

- Host a meeting and verify all host controls (mute participants, manage breakout rooms, etc.).
- Share screen and verify that participants can view it.
- Use chat functionality within a meeting (send messages, share files).
- Record a meeting and verify the recording is saved and accessible.
- **Negative Test Cases:**
 - Fail to join a meeting due to an invalid link or meeting ID.
 - Issues with host controls (e.g., inability to mute participants or manage breakout rooms).
 - Problems with screen sharing (e.g., participants cannot see the shared screen).
 - Fail to use chat functionality or share files due to network or application issues.
 - Issues with recording meetings (e.g., recording fails to start or save).

4. Webinar Management

- **Positive Test Cases:**
 - Schedule a webinar with valid details (date, time, registration).
 - Manage webinar registrations and verify attendee lists.
 - Host a webinar and use all host controls (e.g., manage panelists, Q&A).
 - Record a webinar and ensure the recording is saved and accessible.
- **Negative Test Cases:**
 - Fail to schedule a webinar due to invalid details or missing information.
 - Issues with managing registrations or attendee lists.
 - Problems with hosting a webinar (e.g., inability to manage panelists or Q&A).
 - Fail to record the webinar or access the recording.

5. User Interface and Experience

- **Positive Test Cases:**
 - Navigate through Zoom's interface smoothly (e.g., meetings, settings).
 - Access and use features (e.g., chat, file sharing) without issues.
 - Ensure UI elements (buttons, menus, icons) function correctly.
- **Negative Test Cases:**
 - Navigation issues due to a non-responsive or confusing interface.
 - Problems accessing or using features (e.g., chat, file sharing) due to UI element malfunctions.
 - Inconsistent design or layout issues affecting usability.

6. Integration and External Tools

- **Positive Test Cases:**
 - Integrate Zoom with calendar applications (e.g., Google Calendar, Outlook) and verify synchronization.
 - Use Zoom integrations with external tools (e.g., Slack, Microsoft Teams) and ensure functionality.
 - Set up Zoom for use with external hardware (e.g., conference room systems) and verify connectivity.
- **Negative Test Cases:**
 - Fail to integrate Zoom with calendar applications due to configuration errors.
 - Issues with Zoom integrations with external tools or applications.
 - Problems with connecting Zoom to external hardware or devices.

7. Audio and Video Quality

- **Positive Test Cases:**
 - Test audio and video quality under various network conditions (e.g., good, moderate, poor).
 - Adjust audio and video settings (e.g., microphone volume, camera resolution) and verify changes.
 - Ensure that background noise suppression and video enhancement features work.
- **Negative Test Cases:**
 - Audio or video quality issues due to poor network conditions.
 - Problems with adjusting audio or video settings.
 - Failures in background noise suppression or video enhancement features.

8. Security and Privacy

- **Positive Test Cases:**
 - Enable and verify two-factor authentication for login.
 - Set up meeting and webinar security options (e.g., waiting rooms, passcodes).
 - Manage user permissions and access controls.
- **Negative Test Cases:**
 - Fail to enable or use two-factor authentication.
 - Issues with setting up or applying meeting and webinar security options.
 - Problems managing user permissions or access controls.

9. Notifications

- **Positive Test Cases:**
 - Receive notifications for meeting invitations, updates, and reminders.
 - Customize notification settings (e.g., sounds, email alerts).
 - Verify notifications are delivered on different devices (desktop, mobile).
- **Negative Test Cases:**
 - Fail to receive notifications for meetings or updates.
 - Issues with customizing or applying notification settings.
 - Problems with notification delivery or synchronization across devices.

10. User Management

- **Positive Test Cases:**
 - Add and remove users from a meeting or webinar.
 - Assign roles and permissions (e.g., host, co-host, participant).
 - Manage user settings and preferences.
- **Negative Test Cases:**
 - Fail to add or remove users from a meeting or webinar.
 - Issues with assigning roles and permissions.
 - Problems with managing user settings or preferences.