

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.