

MANUAL TESTING PROJECT

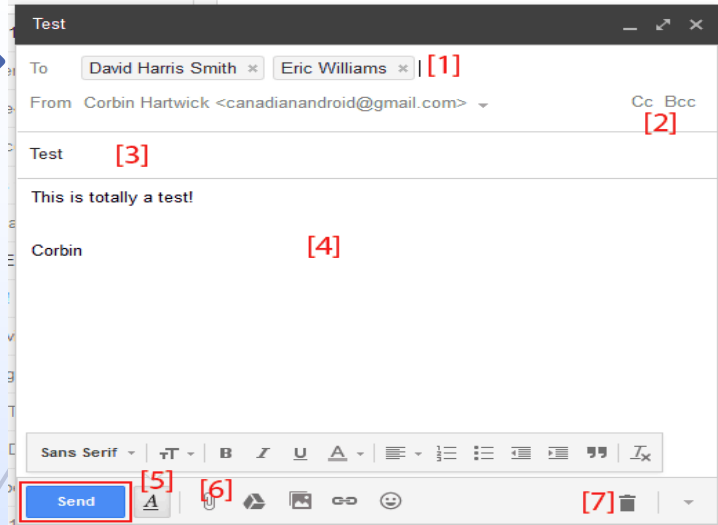
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INTRODUCTION TO PROJECT

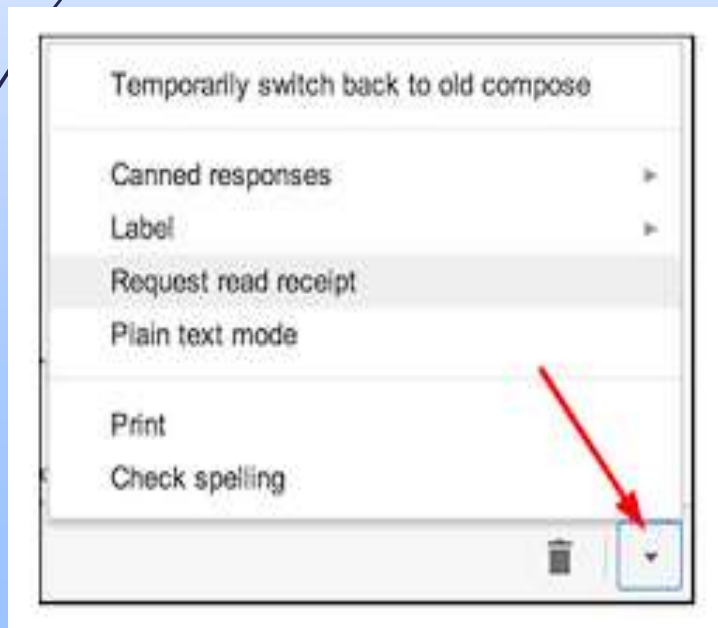
- ❖ **Domain Name:- Gmail**
- ❖ **Module Name:- Communication hub page**
- ❖ **Test Scenarios:-**
 - 1) **Compose and Send email**
 - 2) **Receive and Read email**
 - 3) **Drafts**
 - 4) **Attachment handling**
- ❖ **Communication hub page is all about connection between sending , receiving and organizing email.**
- ❖ **In “Gmail” project application test scenario and test cases are created via manual testing.**



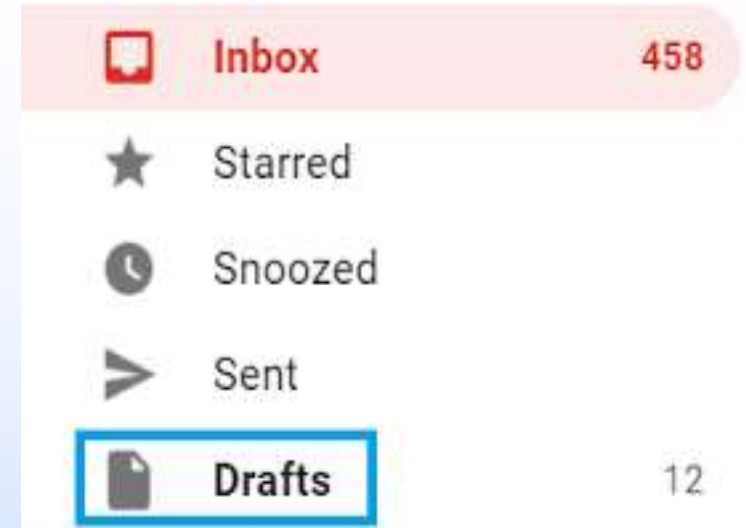
Compose and Send Email



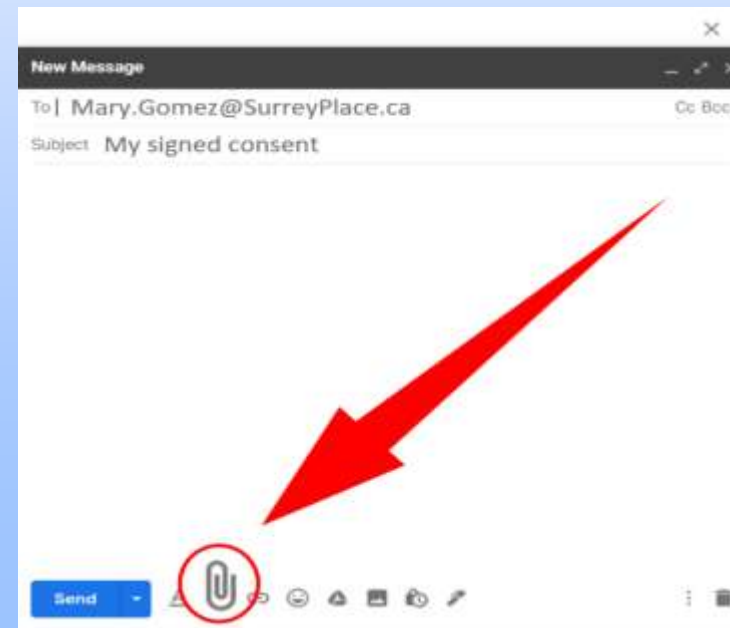
Receive and Read email



Drafts email



Attachment handling



Phases for Communication hub page

1) REQUIREMENT PHASE FOR COMMUNICATION HUB PAGE AS FOLLOWS:-

- In “GMAIL” application figuring out the users need.
- We want a simple way for them to write and send emails, receive and read messages easily and save drafts.
- Additionally, looking into making attachments smooth, allowing users to upload download files without any difficulty.
- The aim to create a user-friendly hub that covers all the basics for effective email communication.
- The interface should be simple, responsive, and secure for email experience.

Phases for Communication hub page

2) DESIGN PHASE FOR COMMUNICATION HUB PAGE AS FOLLOWS:-

- **We are creating a user-friendly experience or composing and sending emails with clear interfaces.**
- **The design emphasizes an easy-to-navigate space for receiving and reading emails, ensuring simplicity.**
- **Here also crafting a straightforward design for drafting emails and handling attachments seamlessly, allowing users to manage files effortlessly.**
- **The gmail's account should be visually intuitive and efficient for email tasks.**

Phases for Communication hub page

3) DEVELOPMENT PHASE FOR COMMUNICATION HUB PAGE AS FOLLOWS:-

- **The focus is on making things happen in communication hub page.**
- **Building buttons for writing and sending emails, creating a space to receive and read them easily, and ensuring drafts save automatically.**
- **The team is also working on a simple process for handling attachments, allowing users to upload and download easily.**
- **To make gmail's smooth and user-friendly platform for communication.**

Phases for Communication hub page

4) TESTING PHASE FOR COMMUNICATION HUB PAGE AS FOLLOWS:-

- Testers are making sure everything works smoothly from the users perspective.
- Checking that composing and sending email, receiving and reading messages, saving drafts, and handling attachments all function without any issues.
- In this phase all the components of Software are tested it consists of the STLC life cycle.

STLC Life Cycle

STLC MEANS SOFTWARE TESTING LIFE CYCLE :-

It consist of following stages as follows:

- a) Requirement and Analysis**
- b) Test Plan**
- c) Test Case Development**
- d) Test Environmental Setup**
- e) Test Execution**
- f) Test Closure**
- g) Test Summary Report**



STLC Life Cycle

a) Requirement and Analysis:-

- In this stage we focus on understanding what users need from their email experience.
- This involves carefully studying and analyzing the features users expect, such as composing and sending emails, receiving and reading messages, and handling attachments.
- By identifying these requirements upfront, we lay the foundation for effective testing strategies to ensure that Gmail's communication hub meets user expectations and works throughout its development.

STLC Life Cycle

b) Test plan :-

In this phase the roles where estimated to each and every person regarding testing as follows:

Members	Roles
Test Manager	i) Monitors and contacts team lead. ii) Test strategies iii) Level of testing iv) Approval of test plan.
Test Lead	i) Test plan creation ii) Work distribution iii) Technically leads team
Test Engineer	i) Create test scenarios ii) Design, creation of test cases iii) Defect report iv) Tracking defect till closure
Automotive Architecture	i) Plans for test automation
Automation Engineer	i) Script and creation for automation ii) Maintaining scripts for changes

STLC Life Cycle

c) Test Cases Development: :-

In this stage we clarify test overview for sending and receiving email. Test data was created for gmail application. Module of communication hub for gmail contained test scenarios as follows :-

- 1) Test scenario on “Compose and Send Email” page.
- 2) Test scenario on “Receive and Read Email” page.
- 3) Test scenario on “Drafts” page.
- 4) Test scenario on “Attachment Handling” page.

We applied several Test Designing techniques while creating Test Cases:-

i) Equivalence Class Partition

ii) State Transition Testing

iii) Decision Table Testing

iv) Boundary Value Analysis

STLC Life Cycle

d) Test Environment Setup :-

Environment was setup for communication hub page in gmail application. The communication hub page module was test on as follows:-

- ☐ Windows - Chrome, Edge, Firefox
- ☐ Mac OS - Safari Browser
- ☐ Android mobile OS- Chrome, Google
- ☐ iPhone mobile OS – Safari
- ☐ Nokia mobile OS - Windows

For debugging tools used were Jira , cucumber Also tools like Excel, word file were used

STLC Life Cycle

e) Test Execution :-

1) Test scenario on “Compose and Send Email” page.

Test Case ID	Test Case Objective	Pre-requisite	Step Data	Expected Result	Actual Result	Status
TC1_M1_1	Verify that a user can successfully compose and send an email.	1.User must have a valid gmail account. 2.User is logged into the gmail account.	1.Open the gmail's application. 2.Click on the compose button. 3.Enter a valid recipient email address 4.Enter a subject for email. Type a message in the email body. 6. Click on the send button.	The email should be sent successfully, and the recipient should receive in the or box.	Confirm that the email is sent without errors,and check the recipients inbox for the received email. If there are any errors in receiving email.	Pass
TC1_M1_2	Verify that a user can successfully attach a file to a Gmail	1.User must have a valid Gmail account. 2.User is logged in to the Gmail application. 3.The file to be attached is available on the local device.	1.Open the Gmail application. 2.Click on the "Compose" button. 3.Enter a valid recipient email address. 4.Enter a subject for the email. 5.Type a message in the email body. 6.Attach a file (e.g., PDF, image) to the email. Click on the "Send" button.	The email should be sent successfully with the attached file, and the recipient should be able to download it.	Confirm that the email is sent without errors, and check the recipient's inbox for the received email with the attached file.	Pass

STLC Life Cycle

2) Test scenario on “Receive and Read Email” page.

Test Case ID	Test Case Objective	Pre-requisite	Step Data	Expected Result	Actual Result	Status
TC1_M1_01	Verify that a user can receive an email in their Gmail inbox.	1.User must have a valid Gmail account. 2.Sender has a valid email address.	1.Sender composes and sends an email to the user's Gmail address. 2.User logs in to Gmail. 3.Navigate to the inbox.	The email sent by the sender should be visible in the user's Gmail inbox.	Confirm that the email is displayed in the inbox.	Pass
TC1_M1_02	Verify that a user can open and read an email in their Gmail inbox.	1.User must have a valid Gmail account. 2.There is at least one email in the user's inbox.	1.User opens Gmail. 2.Navigate to the inbox. 3.Click on a specific email to open and read it.	The selected email should open, and the user should be able to read its content.	Confirm that the email opens successfully, and the content is displayed.	Pass
TC1_M1_03	Verify that a user can view attachments in an email.	1.User must have a valid Gmail account. 2.There is at least one email in the user's inbox with an attachment.	1.User opens Gmail. 2.Navigate to the inbox. 3.Click on a specific email with an attachment to open it.	The email with the attachment should open, and the user should be able to view/download the attachment.	Confirm that the email opens successfully, and the attachment is viewable/downloadable.	Pass

STLC Life Cycle

3) Test scenario on “Drafts” page.

Test Case ID	Test Case Objective	Pre-requisite	Step Data	Expected Result	Actual Result	Status
TC1_M1_010	Verify that a user can successfully save an email as a draft.	1.User must have a valid Gmail account. 2.User is logged in to the Gmail application.	1.Open the Gmail application. 2.Click on the "Compose" button. 3.Enter a valid recipient email address. 4.Enter a subject for the email. 5.Type a message in the email body. 6.Save the email as a draft without clicking on the "Send" button.	The email should be successfully saved as a draft, and the user should be able to access it later.	Confirm that the email is saved in the drafts folder, and the user can open it for further editing or sending.	Pass
TC1_M1_020	Verify that a user can edit a draft email before sending.	1.User must have a valid Gmail account. 2.There is at least one email saved in the drafts folder.	1.Open the Gmail application. 2.Navigate to the drafts folder. 3.Click on a specific draft email to open it. 4.Make changes to the email content. 5.Click on the "Send" button.	The edited draft email should be sent successfully.	Confirm that the edited draft is sent without errors.	Pass

STLC Life Cycle

4) Test scenario on “Attachment Handling” page.

Test Case ID	Test Case Objective	Pre-requisite	Step Data	Expected Result	Actual Result	Status
TC1_M1_001	Verify that a user can successfully attach a file to an email.	1.User must have a valid Gmail account. 2.User is logged in to the Gmail application.	1.Open the Gmail application. 2.Click on the "Compose" button. 3.Enter a valid recipient email address. 4.Enter a subject for the email. 5.Type a message in the email body. 6.Attach a file (e.g., PDF, image) to the email. 7.Click on the "Send" button.	The email should be sent successfully with the attached file, and the recipient should be able to download it.	Confirm that the email is sent without errors, and check the recipient's inbox for the received email with the attached file.	Pass
TC1_M1_002	Verify that a user can open and download an attachment from an email.	1.User must have a valid Gmail account. 2.There is at least one email in the user's inbox with an attachment.	1.Open the Gmail application. 2.Navigate to the inbox. 3.Click on a specific email with an attachment to open it. 4.Download the attached file..	The attachment should be successfully downloaded and accessible on the user's device.	Confirm that the attachment is downloaded without errors.	Pass
TC1_M1_003	Verify that a user can preview an attachment in an email.	1.User must have a valid Gmail account. 2.There is at least one email in the user's inbox with an attachment.	1.Open the Gmail application. 2.Navigate to the inbox. 3.Click on a specific email with an attachment to open it. 4.Preview the attached file.	The attachment should be successfully previewed without having to download it.	Confirm that the attachment is previewed without errors.	Pass

STLC Life Cycle

f) Test Closure :-

Sr.no	Test Scenario	Total Test Cases	Test cases executed	Test case pending
1	Test scenario on “Compose and Send Email” page.	06	06	0
2	Test scenario on “Receive and Read Email” page.	06	06	0
3	Test scenario on “Drafts” page.	06	06	0
4	Test scenario on “Attachment Handling” page.	06	06	0

STLC Life Cycle

g) Test Summary Report :-

- We have executed all the testing on Shopping page, to get better coverage we also conducted
- Exploratory Testing – Using our expertise we performed Exploratory Testing, apart from the normal execution of the Test cases.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows
- Shopping page went through Basic levels of testing such as:
 - 1) Unit Level Testing
 - 2) Integration Testing
 - 3) System Level Testing
 - 4) User Acceptance Testing

STLC Life Cycle

1) Unit Level Testing :-

- **Unit level testing during the each specific feature—composing and sending emails, reading and receiving messages, handling drafts, and managing attachments—is individually tested.**
- **This ensures that each part works correctly before combining them into the full Gmail system.**
- **By focusing on these individual functions, we catch and fix any issues early on, guaranteeing a smoother overall experience for users in their email interactions.**

STLC Life Cycle

2) Integration Testing

- **We check how composing, sending, reading, receiving, handling drafts, and managing attachments all work together smoothly**
- **This ensures that when you use Gmail, these functions blend seamlessly, providing a hassle-free experience. By testing their interaction, we make sure everything clicks, allowing users to enjoy a cohesive and reliable email system.**
- **This step helps catch and fix any issues that might arise when these features come together.**

STLC Life Cycle

3) System Testing

- **System Level Testing:** Ensuring Gmail functions seamlessly across all features—composing, sending, reading, receiving, drafts, and attachments—to provide users with a reliable and efficient email experience.
- **Load Testing:** Assessing how well Gmail performs under simultaneous usage by multiple users for composing, sending, reading, receiving, managing drafts, and handling attachments to maintain responsiveness and reliability.
- **Stress Testing:** Evaluating Gmail's resilience by subjecting it to extreme conditions of usage, like overwhelming email traffic or resource limitations, to identify and address potential breaking points.
- **Endurance Testing:** Checking Gmail's stability over prolonged periods of normal usage for tasks such as composing, sending, reading, receiving, managing drafts, and handling attachments to ensure consistent and reliable performance over time.

STLC Life Cycle

4) User Acceptance Testing

- **User Acceptance Testing (UAT):** Real users try out Gmail's features like composing, sending, reading, receiving, drafts, and attachments to confirm it meets their expectations and needs.
- **Alpha Testing:** Gmail is tested internally by the development team to identify and fix any issues with composing, sending, reading, receiving, drafts, and attachments before releasing it to a wider audience.
- **Beta Testing:** A group of external users tests Gmail's features, including composing, sending, reading, receiving, drafts, and attachments, to gather feedback and make improvements before the final release to the public.

Phases for Communication hub page

5) DEPLOYMENT :-

- **The improvements for composing and sending emails, receiving and reading messages, managing drafts, and handling attachments are rolled out to users.**
- **This means that users can now experience the enhanced features and smoother functionality in their everyday email interactions.**
- **The deployment ensures that Gmail continues to provide a reliable and user-friendly communication hub.**

Phases for Communication hub page

6) MAINTENANCE :-

- **The focus is on keeping everything running smoothly.**
- **This involves fixing any issues that may arise with composing and sending emails, receiving and reading messages, managing drafts, and handling attachments.**
- **Regular updates and improvements are made to ensure Gmail remains a dependable and user-friendly platform for effective email communication.**

..THANK YOU..

