**Software Test Design Document**

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**Software Test Design Document**

**1 Document Overview**

This document provides the detailed test design for the Gmail Desktop App software development project. It outlines the approach, resources, and schedule for the testing activities. The goal is to ensure that the software meets its requirements and works as expected.

**2. Test Design**

**2.1 Test Case Template**

|  |  |
| --- | --- |
| **Test case name** |  |
| **Test case goal** |  |
| **Data** |  |
| **Preconditions** |  |
| **Writer** |  |
| **Date** |  |
| **Prioritization** |  |

|  |  |  |
| --- | --- | --- |
| **Serial number:** | **Step:** | **Required outcome:** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |

**2.2 Test Case Descriptions**

**Test Case ID: 001**

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| **Test case name** | **Downloading an attachment** |
| **Test case goal** | Verify that the download button works correctly |
| **Data** | Attachment, sent mail |
| **Preconditions** | A computer with internet connection.  Logged in Gmail account  An email with an attachment |
| **Writer** | Bahaa Abuzalaf |
| **Date** | 04-06-2024 |
| **Prioritization** | 2 |

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| --- | --- | --- |
| **Serial number:** | **Step:** | **Required outcome:** |
| **1** | Open a web browser and navigate to Gmail | Gmail inbox is displayed with all the mails |
| **2** | Locate the email with the attachment in the inbox | Email with attachment is found and visible in the inbox |
| **3** | Open the email with the attachment | Email content is displayed which contains the Sender name, the title, the content and the attachment |
| **4** | Click on the download button on the attachment | Download process for the attachment starts |
| **5** | Verify the downloaded attachment by opening it. | The file opens without errors, confirming it is intact and accessible. |

**Test Case ID: 002**

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| **Test case name** | **“Show search options" button in the search bar** |
| **Test case goal** | Verify that the "Show search options" button works correctly and filters search results as expected. |
| **Data** | Specific keywords, sender email addresses, date ranges, attachment status |
| **Preconditions** | A computer with internet connection.  Logged in Gmail account |
| **Writer** | Bahaa Abuzalaf |
| **Date** | 04-06-2024 |
| **Prioritization** | 2 |

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| --- | --- | --- |
| **Serial number:** | **Step:** | **Required outcome:** |
| **1** | Locate the search bar at the top of the Gmail interface | Search bar is found and visible |
| **2** | Click on the "Show search options" button (the small downward arrow at the right end of the search bar) | A dropdown menu with advanced search options is displayed |
| **3** | Fill in the "From" field with a specific sender's email address | The field accepts input and displays the entered sender's email address |
| **4** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **5** | Verify that the search results include emails from the specified sender | Relevant emails from the specified sender are displayed in the search results |
| **6** | Fill in the "To" field with a specific recipient's email address | The field accepts input and displays the entered recipient's email address |
| **7** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **8** | Verify that the search results include emails from the specified sender | Relevant emails from the specified sender are displayed in the search results |
| **9** | Fill in the "Subject" field with a specific subject keyword | The field accepts input and displays the entered subject keyword |
| **10** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **11** | Verify that the search results include emails from the specified sender | Relevant emails from the specified sender are displayed in the search results |
| **12** | Fill in the "Has the words" field with specific keywords | The field accepts input and displays the entered keywords |
| **13** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **14** | Verify that the search results include emails from the specified sender | Relevant emails from the specified sender are displayed in the search results |
| **15** | Fill in the "Doesn't have" field with specific keywords to exclude | The field accepts input and displays the entered keywords to exclude |
| **16** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **17** | Verify that the search results exclude emails containing the specified keywords | Emails containing the specified keywords are not displayed in the search results |
| **18** | Fill in the "Size" field with a specific size criterion (e.g., larger than 5 MB) | The field accepts input and displays the entered size criterion |
| **19** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **20** | Verify that the search results include emails from the specified sender | Relevant emails from the specified sender are displayed in the search results |
| **21** | Fill in the "Date within" field with a specific date range | The field accepts input and displays the entered date range |
| **22** | Click on the "Search" button in the dropdown menu | Gmail performs the search and displays the search results |
| **23** | Verify that the search results include emails sent or received within the specified date range | Relevant emails sent or received within the specified date range are displayed in the search results |

**Test Case ID: 003**

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| **Test case name** | **Data backup when connected with the same account** |
| **Test case goal** | Verify that account’s data is backedup and can connect with another device |
| **Data** | Two computers with windows OS  Emails in the inbox |
| **Preconditions** | Two computers with windows OS that have access to the internet connection. Computer 1 is singed in |
| **Writer** | Bahaa Abuzalaf |
| **Date** | 04-06-2024 |
| **Prioritization** | 1 |

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| --- | --- | --- |
| **Serial number:** | **Step:** | **Required outcome:** |
| **1** | Open a web browser and navigate to Gmail on Device 1. | Gmail inbox is displayed, along with all the mails including their content, settings data and account data. |
| **2** | Open a web browser and navigate to Gmail on Device 2. | The Gmail login page opens with "Sign in" and "Create an account" options. |
| **3** | Click on sign in | The sign-in page displays a field to enter the username. |
| **4** | Enter the username with the same username as the device 1. | The field accepts input and displays the entered email or phone |
| **5** | Click on next | The page displays a feild to enter the password |
| **6** | Enter the correct password for the username | The field accepts input and displays the entered password as “\*”. |
| 7 | Click on next | Gmail inbox is displayed, along with all emails including their content, settings data, and account data that matches what was on Device 1.  Also device 1 receives a notification indicating a new device has logged into the account. |

**Test Case ID: 004**

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| Test case name | End-to-End – sending/receiving an email |
| Test case goal | To test if the message sent by one user to another, appears at the second user Inbox as it should. |
| Data | Two email accounts, text, file, website link |
| Preconditions | Two computers with email accounts that is connected to Gmail, and the Gmail app opened in both. |
| Writer | Shibel Alshech |
| Date | 4/6/2024 |
| Prioritization | 1 |

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| --- | --- | --- |
| Serial number: | Step: | Required outcome: |
| 1 | Click on "Compose" in the upper right corner | A pop-up window will appear to send a message, it contains 3 fields:   * To: contains the receiver email address. * Subject: contains the subject of the message. * Empty field: contains the message itself.   It also contains a "send" button. |
| 2 | Click on "attach files" | A window with all the files in the computer will appear |
| 3 | Pick a file that is maximum 100 megabytes and press "Open" in the bottom right corner | The name of the file will appear in the bottom of the message field with its type and size, in a blue color. |
| 4 | Press on the message field and type something | The characters will appear simultaneously in the message field. |
| 5 | Enter a website link in the message field | The link will appear like a regular text |
| 6 | Press on "Send" in the bottom left corner | The pop-up window will disappear, and a small pop-up will appear that contains two options: Undo, and View message. |
| 7 | Press on "Undo" in the pop-up | The message window will return with the same content that was written in it |
| 8 | Look at Gmail website from the receiver account | Nothing changed in the inbox, no new message has been received |
| 9 | Return to the main (sender) Gmail website, and press on "Send", in the bottom left side of the "Compose" window | The pop-up window will disappear, and a small pop-up will appear that contains two options: Undo, and View message. |
| 10 | Refresh "Gmail" website page of the receiver account | A white colored message will appear at the top of other messages (if there is any) with the Subject appears in bald font. |
| 11 | Click on the message | The message window will open with the exact same text, files, and the website link will be in blue with an underline. |
| 12 | Click on the file | The file will open in a new window while still in Gmail, without downloading. |
| 13 | Click on the link | The right website will open in a new tab in the browser |

**Test Case ID: 005**

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| Test case name | Delete message functionality |
| Test case goal | To validate if the message deletes after the user presses "delete", and if it returns when pressed "Undo" |
| Data | Gmail account, message in Gmail |
| Preconditions | A computer that is connected to Gmail via valid Gmail account and has the Gmail website opened. |
| Writer | Shibel alshech |
| Date | 4/6/2024 |
| Prioritization | 2 |

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| Serial number: | Step: | Required outcome: |
| 1 | Enter Gmail website | The website will view the messages in the inbox, as the only thing appears in the far-right side of the message is the time it was sent |
| 2 | Hover above a message | A "trash can" emoji appears on the far-right side of the message |
| 3 | Press on the "Trash can" emoji | The message will disappear from the inbox section and a pop-up appears at the bottom left side of Gmail window that contains "Undo" button and written in it "conversation moved to trash" |
| 4 | Press on the "Undo" button | The message will return and will appear at same place where it was before, and a small pop-up will appear in the bottom of the screen that says: "action undone." |
| 5 | Click on the message | The message will open like how it opened at the first time; all the content appears as it was before deleting |
| 6 | Click on "previous" button of the browser | The screen will return to the inbox messages |
| 7 | Click on the mouse's right button on a message | A delete option will appear in a pop-up with a few other options |
| 8 | Press on "delete" | The message will disappear from the inbox section and a pop-up appears at the bottom left side of Gmail window that contains "Undo" button and written in it "conversation moved to trash" |
| 9 | Press on the "Undo" button | The message will return and will appear at same place where it was before, and a small pop-up will appear in the bottom of the screen that says: "action undone." |
| 10 | Click on the message | The message will open like how it opened at the first time; all the content appears as it was before deleting |
| 11 | Click on "previous" button of the browser | The screen will return to the inbox messages |
| 12 | Press on the "select" button that appears in the far-left side of a message | A "trash can" emoji will appear in the upper banner of the messages field |
| 13 | Press on the "trash can" emoji | The message will disappear from the inbox section and a pop-up appears at the bottom left side of Gmail window that contains "Undo" button that is written on it "conversation moved to trash" |
| 14 | Press on the "Undo" button | The message will return and will appear at same place where it was before, and a small pop-up will appear in the bottom of the screen that says: "action undone." |
| 15 | Click on the message | The message will open like how it opened at the first time; all the content appears as it was before deleting. |

**Test Case ID: 006**

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| Test case name | Compatibility - adjusting (resizing) the Gmail window |
| Test case goal | To validate if Gmail inner layout adjust as expected when resizing the page size |
| Preconditions | Web browser opened at full size |
| Writer | Shibel Alshech |
| Date | 4/6/2024 |
| Prioritization | 3 |

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| --- | --- | --- |
| Serial number: | Step: | Required outcome: |
| 1 | Open the Gmail web app | Gmail inbox displays along with all the emails one in vertical list layout |
| 2 | Click on the "resize" button of the browser | The Gmail page resizes proportionally. All content should adjust accordingly, maintaining readability. |
| 3 | Minimize the browser window | The Gmail window disappears along with the browser window |
| 4 | Maximize the browser window | The Gmail window resizes back to its previous dimensions, and the UI elements (folders, labels, message list) should retain their state. |
| 5 | Resize the window to a very small size | Message list prioritizes displaying sender and subject, potentially truncating content. - Less critical elements like icons or stars might be hidden. |
| 6 | Resize the window while composing a new message | The compose window should adjust proportionally. Formatting tools and recipient fields should remain accessible |
| 7 | Open multiple emails in separate tabs and resize the window | All tabs should be resized and remain accessible. Content prioritizes readability, potentially hiding some details. |
| 8 | Maximize the browser window | The Gmail window resizes back to its previous dimensions, and the UI elements (folders, labels, message list) should retain their state. |
| 9 | Zoom in on the webpage using browser controls | The text size in the app will increase, the layout remains the same, but the app prioritizes displaying sender and subject, potentially truncating content. |
| 10 | Zoom out on the webpage using browser controls | The text size in the app will decrease, the layout remains the same, but each element will be farther to another |