

Test Cases

For accounts.google.com

User Story	Acceptance criteria
A user wants login to have access to his personal account. log out of his account after he is done in order to restrict other users from accessing his account.	The website has a login page where the user provides a unique email or username along with a correct password to gain access to his account. If a mismatch of email and password occurs the user is restricted from accessing his account
A user wants to send an email using his account.	The webpage has a button called compose after clicking it we enter the recipient's email, the subject and content of the mail. Now we click on send if the mail is sent the test is considered to be successful.
A user wants to delete a mail from the inbox.	In the inbox, the mail you wanted to delete has a check box in front of it we click on it. Now the delete button is found on the right corner we click it and the mail gets deleted.
A user wants to edit a draft mail and send it to a user.	A draft option is available on the left side, using it a mail is chosen which needs to be edited. The required changes are made and the send button is clicked.
A user wants to search for a particular mail.	The search box is found on the top it is clicked and the required mail is searched. Upon clicking the search icon button, the results are displayed.
A user wants to filter the mail.	On the right corner of the search box a filter button is available. The button is clicked and the required filters are applied and search button is clicked.
A user wants to unsend a mail.	A sample mail is sent and the option to unsend it pops up for about only few seconds which is clicked.
A user wants to schedule a mail to be sent to a particular time.	A sample mail is composed and near the send button there is a small arrow that is clicked to view the scheduling options. A proper time is selected and the mail is scheduled.

<p>A user wants to cancel all the scheduled mails.</p>	<p>A sample mail is scheduled in the beginning. Now from the available options on the left, the scheduled mail one is selected and the check box is selected. Finally, a cancel send is clicked to cancel all the scheduled mails.</p>
<p>A user wants to view all the available help options.</p>	<p>The account page contains a question mark icon. This icon is clicked and a help option is found. Upon clicking this all the available help options are displayed.</p>
<p>A user wants to star a mail which he thinks as an important one</p>	<p>A sample mail is composed and sent to the same account. The star icon is clicked once the mail arrives. Now this mail can be found in the starred mails list.</p>

Test Report

Test case	Feature	Development time (approx.) (minutes)	Execution time (seconds)
1	Login and log out	20	28
2	Send mail	15	42
3	Delete mail	15	30
4	Edit a draft mail	20	48
5	Search for a mail	20	31
6	Performing filter search	30	45
7	Undo a mail	10	47
8	Scheduling a mail	25	38
9	Cancel all scheduled mails	30	43
10	Using help	30	27
11	Add a mail to starred ones	20	45

Login and log out:

Test Run for login_logout.txt





11/02/2022 15:46:57

Command	Run Status
Call <u>scripts/login.txt</u>	Passed
Call <u>scripts/log_out.txt</u>	Passed

Send mail:

Test Run for send_mail.txt


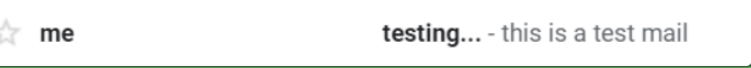

11/02/2022 15:50:57

Command	Run Status
Call scripts/login.txt	Passed
Click  Compose	Passed Screenshot
Sleep 1000	Passed
Type softwaretestingbth@gmail.com	Passed
Sleep 500	Passed
Click  18 37	Passed Screenshot
Sleep 500	Passed
Type testing...	Passed
Click  29 59	Passed Screenshot
Type "this is a test mail"	Passed
Click  31 53	Passed Screenshot
Call scripts/log_out.txt	Passed

Delete mail:




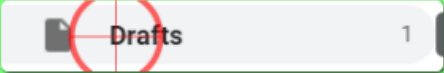
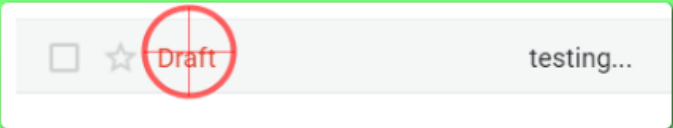
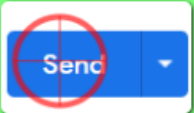
Test Run for delete_mail.txt

13/02/2022 23:08:04

Command		Run Status
Call scripts/login.txt		Passed
Click	 	3 49 Passed Screenshot
Click		Passed Screenshot
Sleep 1000		Passed
Call scripts/log_out.txt		Passed

Edit a draft mail:


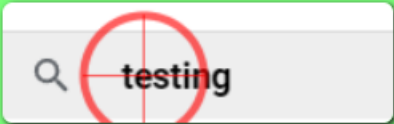

11/02/2022 15:53:55

Command	Run Status
Call scripts/login.txt	Passed
Click 	Passed Screenshot
Sleep 1000	Passed
Type softwaretestingbth@gmail.com	Passed
Sleep 500	Passed
Click  18 37	Passed Screenshot
Sleep 500	Passed
Type testing...	Passed
Click  80 15	Passed Screenshot
Sleep 500	Passed
Click  26 52	Passed Screenshot
Sleep 500	Passed
Click  28 39	Passed Screenshot
Sleep 500	Passed
Type "this is a draft mail"	Passed
Click  31 53	Passed Screenshot
Call scripts/log_out.txt	Passed

Search for a mail:

Test Run for search mail.txt




11/02/2022 16:09:09

Command		Run Status
Call <u>scripts/login.txt</u>		Passed
Click	 33 55	Passed Screenshot
Type testing		Passed
Click	 36 61	Passed Screenshot
Click	 24 48	Passed Screenshot
Call <u>scripts/log_out.txt</u>		Passed

Performing filter search:

Test Run for filter_search.txt






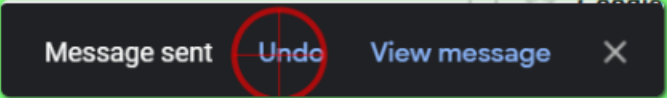
11/02/2022 16:20:03

Command	Run Status
Call <u>scripts/login.txt</u>	Passed
Click  59 44	Passed Screenshot
Sleep 500	Passed
Click Has the words  43 54	Passed Screenshot
Sleep 500	Passed
Type testing	Passed
Sleep 500	Passed
Click 	Passed Screenshot
Call <u>scripts/log_out.txt</u>	Passed

Undo a mail:

Test Run for undo_mail.txt




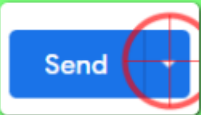
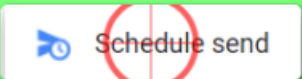

11/02/2022 16:23:03

Command		Run Status
Call scripts/login.txt		Passed
Click	 35 57	Passed Screenshot
Click		Passed Screenshot
Sleep 1000		Passed
Type softwaretestingbth@gmail.com		Passed
Sleep 500		Passed
Click	 18 37	Passed Screenshot
Sleep 500		Passed
Type testing...		Passed
Click	 29 59	Passed Screenshot
Type "this is a undo mail"		Passed
Click	 31 53	Passed Screenshot
Click	 42 57	Passed Screenshot
Call scripts/log_out.txt		Passed

Scheduling a mail:

Test Run for scheduling.txt





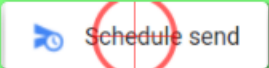


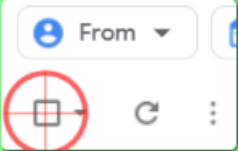

11/02/2022 17:03:56

Command	Run Status
Call scripts/login.txt	Passed
Click  Compose	Passed Screenshot
Sleep 1000	Passed
Type softwaretestingbth@gmail.com	Passed
Sleep 500	Passed
Click  18 37	Passed Screenshot
Sleep 500	Passed
Type testing...	Passed
Click  29 59	Passed Screenshot
Type "this is a scheduled mail"	Passed
Click  85 52	Passed Screenshot
Click  Schedule send	Passed Screenshot
Click  Tomorrow morning	Passed Screenshot
Call scripts/log_out.txt	Passed

Cancel all scheduled mails:

Test Run for cancel_scheduling.txt




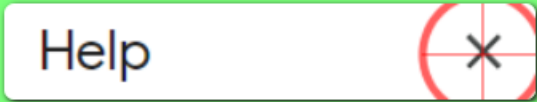
13/02/2022 02:13:07

Command	Run Status
Call scripts/login.txt	Passed
Click  Compose	Passed Screenshot
Sleep 1000	Passed
Type softwaretestingbth@gmail.com	Passed
Sleep 500	Passed
Click  18 37	Passed Screenshot
Sleep 500	Passed
Type testing...	Passed
Click  29 59	Passed Screenshot
Type "this is a scheduled mail"	Passed
Click  85 52	Passed Screenshot
Click  Schedule send	Passed Screenshot
Click  Tomorrow morning	Passed Screenshot
Click  Scheduled	Passed Screenshot
Click  19 76	Passed Screenshot
Click  Cancel send 48 54	Passed Screenshot
Call scripts/log_out.txt	Passed

Using help:

Test Run for viewing_help.txt

13/02/2022 02:21:16

Command		Run Status
Call <u>scripts/login.txt</u>		Passed
Click	 52 51	Passed Screenshot
Sleep 1000		Passed
Click	 22 47	Passed Screenshot
Click	 26 73	Passed Screenshot
Sleep 500		Passed
Click	 90 54	Passed Screenshot
Call <u>scripts/log_out.txt</u>		Passed

Add a mail to starred ones:

Test Run for staring_mail.txt

13/02/2022 03:19:45

Command	Run Status
Call scripts/login.txt	Passed
Click  Compose	Passed Screenshot
Sleep 1000	Passed
Type softwaretestingbth@gmail.com	Passed
Sleep 500	Passed
Click  18 37	Passed Screenshot
Sleep 500	Passed
Type testing...	Passed
Click  29 59	Passed Screenshot
Type "this is a star mail"	Passed
Click  31 53	Passed Screenshot
Sleep 4000	Passed
Click  me testing... - this is a star mail 10 42	Passed Screenshot
Click  Starred	Passed Screenshot
Sleep 2000	Passed
Call scripts/log_out.txt	Passed

Test suite:

Test Run for main_script.txt

13/02/2022 23:05:17

Command	Run Status
Call <u>scripts/login_logout.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/send_mail.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/delete_mail.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/edit_draft_mail.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/search mail.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/filter_search.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/undo_mail.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/scheduling.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/cancel_scheduling.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/viewing_help.txt</u>	Passed
Sleep 500	Passed
Call <u>scripts/staring_mail.txt</u>	Passed

why you believe your test suite could be considered high quality in terms of automated software testing best practices?

The suite contains test cases that are used to test the basic GUI features required to run accounts.google.com. These test cases were designed in such a way that they are simple and the scripts written can be reusable. A proper structure was followed while writing the scripts in order to make it easy to debug and edit. These scripts were basically divided into three sections setup, test and teardown face. They are small, independent and focused on one objective. The test cases that were slow and failed were modified in such a way that they give a better experience. The testing tool chosen was “eye automate” as it is easy and can create tests that can be reused and maintained.

discuss the benefits/drawbacks you perceived with using script-based GUI testing.

Benefits:

- The scripts can be reused whenever required.
- The same test case can be tested any number of times as per one's choice.
- Script based testing generates powerful reports that help us to analyse all the test cases with ease at once.
- It saves a lot of time and makes our work easier.
- It helps us in maximizing the test coverage.
- It helps in building test cases that contain data and this is often referred as data driven testing.

Drawbacks:

- For some of the tool's script-based testing works differently in different systems i.e., environment limitations
- It is difficult to locate bugs and debug the errors.
- Tools have their own defects hence we cannot expect good results always.
- A little knowledge and insight on scripting is required to write the script.
- Some of the tools are not suitable for dynamically changing UI designs.