Test Report: Gmail Login Page

Report ID:	TR-GMAIL-00001
Test Type:	Grey Box Testing
Test Manager:	Saiprasad Bhise
Tester:	Piyusha Supe
Date of Testing:	04/08/2025
Version:	0.2
Environment:	Windows 11, 64-bit, 8 GB RAM, 256 GB SSD

Executive Summary

- **Objective:**
  The purpose of this grey box testing was to verify the functional behavior and partial internal workings of the Gmail Login Page, including input validation, authentication flow, and error handling.
- **Summary of Results:**
  - Total Test Cases Executed: 43

Testing Details

Test Case ID	Module/Functionality	Type	Test Description	Input Data	Result	Status	Comments
TC-001	Gmail Login	Positive	Login with valid email & password	Valid email, valid password	Two-step verification prompt (if enabled) or inbox loads	Pass	-
TC-002	Gmail Login	Positive	Stay signed in and reopen browser	Valid credentials, 'Stay signed in' checked	Session persists after reopening browser	Pass	-
TC-003	Gmail Login	Positive	Show password feature	Click eye icon in password field	Password becomes visible	Pass	-
TC-004	Gmail Login	Positive	Login using mobile number	Registered mobile, valid password	Inbox loads	Pass	-
TC-005	Gmail Login	Positive	Caps Lock warning	Valid email, password entered with Caps Lock on	No warning shown	Fail	Missing Caps Lock detection
TC-006	Gmail Login	Positive	Keyboard accessibility	Navigation via Tab/Enter only	Navigation seamless	Pass	-
TC-007	Gmail Login	Positive	Forgot password redirection	Click 'Forgot password?'	Prompt for phone number	Pass	-
TC-008	Gmail Login	Positive	Forgot email redirection	Click 'Forgot email?'	Prompt for recovery mail/phone	Pass	-
TC-009	Gmail Login	Positive	Multi-browser page load	Open in Chrome, Firefox, Edge	Loads consistently	Pass	-

Test Case ID	Module/Functionality	Type	Test Description	Input Data	Result	Status	Comments
TC-010	Gmail Login	Positive	Login after password change	Reset password, login	Inbox loads	Pass	-
TC-011	Gmail Login	Positive	Redirection to inbox	Complete login	Redirects as intended	Pass	-
TC-012	Gmail Login	Positive	Session timeout warning	Idle on login page	No warning shown	Pass	Expected behavior
TC-013	Gmail Login	Positive	Resend verification email	Click 'Resend' after verification	Email resent	Pass	-
TC-014	Gmail Login	Positive	Google logo click redirection	Click logo	No redirection	Fail	Expected to go to Google homepage
TC-015	Gmail Login	Positive	Multilingual support	Change language & login	Page loads in selected language	Pass	-
TC-016	Gmail Login	Negative	Incorrect email	Invalid email	Error: Couldn't find your Google account	Pass	-
TC-017	Gmail Login	Negative	Incorrect password	Valid email, invalid password	Error: Wrong password	Pass	-
TC-018	Gmail Login	Negative	Empty email field	Blank email	Error: Enter email or phone	Pass	-
TC-019	Gmail Login	Negative	Empty password field	Valid email, blank password	Error: Enter password	Pass	-
TC-020	Gmail Login	Negative	Unregistered mobile number	Invalid mobile number	Error: Couldn't find account	Pass	-
TC-021	Gmail Login	Negative	Email with special characters	abc#@gmail.com	Error: Enter valid email	Pass	-
TC-022	Gmail Login	Negative	SQL injection attempt	admin' OR '1'='1	Login blocked	Pass	Lacks explicit security message
TC-023	Gmail Login	Negative	XSS attack attempt	`<script>alert(1)</script>`	Alert notification sent to mail	Fail	Should sanitize input
TC-024	Gmail Login	Negative	Disabled cookies	Cookies disabled	Login still allowed	Fail	Should block login
TC-025	Gmail Login	Negative	Network interruption during login	Disconnect internet	Error: No connection	Pass	-
TC-026	Gmail Login	Negative	Exceeding max attempts	Multiple wrong passwords	Recovery temporarily disabled	Pass	-
TC-027	Gmail Login	Negative	Expired password	Old password after change	Error: Password changed	Pass	-
TC-028	Gmail Login	Negative	Deactivated account	Attempt login	Error: Account deactivated	Pass	-

Test Case ID	Module/Functionality	Type	Test Description	Input Data	Result	Status	Comments
TC-029	Gmail Login	Negative	Password too short	Less than min length	Prompt: Stronger password	Pass	-
TC-030	Gmail Login	Negative	Unsupported browser	Outdated browser	Page fails to load	Pass	-
TC-031	Gmail Login	Edge/Security	Password masking by default	Enter password	Hidden by default	Pass	-
TC-032	Gmail Login	Edge/Security	Tab order of fields	Use Tab key	Correct order	Pass	-
TC-033	Gmail Login	Edge/Security	Error message clarity	Cause multiple errors	Clear messages shown	Fail	Some inconsistent
TC-034	Gmail Login	Edge/Security	Login button disabled state	Leave fields blank	Button enabled but error shown	Pass	Gmail uses active button pattern
TC-035	Gmail Login	Edge/Security	Multiple parallel logins	Multiple tabs	Successful logins	Pass	-
TC-036	Gmail Login	Edge/Security	Password visibility timeout	Show password, wait	Timeout too long	Fail	Security risk
TC-037	Gmail Login	Edge/Security	Mobile responsiveness	Resize browser	Consistent layout	Pass	-
TC-038	Gmail Login	Edge/Security	Language change mid-login	Change language	Page reloads	Fail	Clears entered data
TC-039	Gmail Login	Edge/Security	Accessibility screen reader	Screen reader navigation	Not available	Fail	Accessibility gap
TC-040	Gmail Login	Edge/Security	Page refresh during login	Refresh after email	Reloads as intended	Pass	-
TC-041	Gmail Login	Edge/Security	Session hijacking protection	Login reuse in other browser	New session + mail alert	Pass	-
TC-042	Gmail Login	Edge/Security	Autofill and remembered credentials	Use browser autofill	Works as intended	Pass	-
TC-043	Gmail Login	Edge/Security	Terms/Privacy links	Click footer links	Redirect to correct pages	Pass	-

Defects Summary

Defect ID	Severity	Priority	Description	Status	Assigned To	Date Logged	Comments
DF-001	Medium	Medium	No Caps Lock warning shown when entering password with Caps Lock enabled (Positive Case #5)	Open	UI Dev Team	29 Jul 2025	Could lead to login errors for users unaware Caps Lock is on.

Defect ID	Severity	Priority	Description	Status	Assigned To	Date Logged	Comments
DF-002	Low	Low	Google logo on login page is not clickable / no redirection (Positive Case #14)	Open	UI Dev Team	30 Jul 2025	Expected redirection to Google homepage or landing page.
DF-003	High	High	No prompt or prevention when cookies are disabled, yet login process allows attempt (Negative Case #9)	Open	Security Team	31 Jul 2025	May affect session persistence and security compliance.
DF-004	High	Medium	XSS test string `<script>alert(1)</script>` triggers alert notification in mailbox instead of sanitizing input (Negative Case #8)	Open	Security Team	02 Aug 2025	Input sanitization insufficient; potential vulnerability.
DF-006	Medium	Medium	Screen reader support not available for login page (Edge Case #9)	Open	Accessibility Team	05 Aug 2025	Violates accessibility compliance standards (WCAG).
DF-007	Low	Low	"Show Password" timeout is much longer than expected (Edge Case #6)	Open	UI Dev Team	07 Aug 2025	Should auto-hide password within standard timeout for security.
DF-008	Low	Medium	Error messages for certain invalid inputs are not consistent in clarity (Edge Case #3)	Open	UI/UX Team	09 Aug 2025	Some messages are vague; need standardization for better UX.
DF-009	Medium	Medium	Language change mid-login reloads the page but clears entered data (Edge Case #8)	Open	UI Dev Team	10 Aug 2025	Should preserve already-entered data where possible.

Observations & Recommendations

- The UI is responsive and consistent across tested browsers.
- Input validation works as expected except for password empty field.
- Recommend adding loading spinner on login action to improve UX.
- Enhance error messages to be more descriptive.

Approval

Name	Role	Signature	Date
SAIPRASAD BHISE	QA MANAGER		04/08/2025
PIYUSHA SUPE	TESTER		11/08/2025