

Gmail Login Page

1. Functional Testing

TC ID	Test Title	Scenario	Preconditions	Steps	Input	Expected Result	Actual Result	Status	Priority	Severity
TC001	Verify case sensitivity of password	Check if Gmail rejects incorrect password case	Valid Gmail account exists	Enter correct email and password in different case	Email: user@gmail.com, Password: CORRECT123	Login fails with error 'Wrong password'			Medium	Major
TC002	Login with special characters in password	Ensure password with special chars works	Valid account exists	Enter valid email and password with symbols	Email: user@gmail.com, Password: My@Pass#123	Login successful			Medium	Major
TC003	Redirect after failed login	User stays on login page after failure	Gmail page open	Enter invalid email or password	Email: xyz@gmail.com	Error message shown, no redirect			Medium	Major

TC004	Auto-focus to	Cursor auto	Login page	Enter email and	Email:	Password field focused			Low	Minor
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	password field	moves to next field	open	click Next	user@gmail.com	automatically				
TC005	Login after password change	Ensure new password works	Password recently changed	Enter email and new password	Email: user@gmail.com, Password: NewPass@123	Login successful			High	Major
TC006	Inactive account login	Error for disabled account	Account temporarily disabled	Enter valid credentials	Email: blocked@gmail.com	Error 'Account disabled' displayed			Medium	Major
TC007	Login with saved credentials	Ensure saved credentials login works	Browser has saved Gmail credentials	Click on saved email suggestion	-	User logs in automatically			Medium	Major
TC008	Session persistence after refresh	Ensure login persists after reload	User logged in successfully	Refresh browser	-	User remains logged in			Medium	Major

TC009	Invalid domain email	Invalid email domain	Gmail page open	Enter email with wrong	Email: user@xyz	Error 'Enter valid email' displayed			Medium	Major
	format	check		domain						
TC010	Recovery email verification	Check if recovery email works	Recovery email linked	Click 'Try another way'	Recovery email verification	OTP sent to recovery email			Medium	Major

2. UI/UX Testing

TC ID	Test Title	Scenario	Preconditions	Steps	Input	Expected Result	Actual Result	Status	Priority	Severity
TC011	Button hover effect	Verify color change on hover	Login page loaded	Move cursor over 'Next' button	None	Button color changes on hover			Low	Minor
TC012	Input field highlight	Ensure field border highlights when active	Login page open	Click on email input field	None	Border color changes to blue			Low	Minor

TC013	Page alignment	Validate proper alignment	Browser window maximized	Observe UI layout	None	Fields properly aligned			Medium	Minor
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		of elements								
TC014	Forgot password link color	Verify visual consistency	Login screen visible	Observe link color	None	Link color matches theme			Low	Minor
TC015	Logo click navigation	Ensure logo doesn't navigate elsewhere	Gmail page open	Click Gmail logo	None	No page redirect occurs			Medium	Minor
TC016	Placeholder text visibility	Check text color contrast	Login page open	Observe email field text	None	Text readable in gray shade			Medium	Minor
TC017	Font consistency	Verify consistent font family	Page loaded	Observe all labels and links	None	Uniform font style applied			Medium	Minor
TC018	Responsive input fields	Ensure fields resize properly	Resize browser window	Adjust window width	None	Input boxes adjust to size			Medium	Minor

TC019	Button size consistency	Verify button sizes are consistent	Page fully loaded	Compare buttons visually	None	Buttons are consistent			Low	Minor
TC020	Accessibility contrast ratio	Check contrast for accessibility	Login screen open	Run color contrast tool	None	Meets accessibility standard			Medium	Minor

3. Security Testing

TC ID	Test Title	Scenario	Preconditions	Steps	Input	Expected Result	Actual Result	Status	Priority	Severity
TC021	Password length validation	Verify password minimum length	Login page open	Enter password less than 8 chars	Password: 12345	Error 'Password too short'			Medium	Major
TC022	Invalid email SQL characters	Prevent SQL injection in email field	Login screen active	Enter SQL string in email	Email: ' OR 1=1--	Error shown, no login			High	Major
TC023	HTTPS protocol	Ensure login only	Network monitor	Open Gmail via http://	None	Redirected			High	Major

	enforcement	works over HTTPS	active			to https://				
TC024	Password visibility toggle	Ensure password can be viewed safely	Password field active	Click eye icon	Password: Secret123	Toggles visibility safely			Medium	Major
TC025	Multiple failed attempts	Lockout after multiple wrong tries	Gmail page open	Enter wrong password 5 times	Password: wrong123	Account temporarily locked			High	Major
TC026	CSRF protection	Prevent cross-site request forgery	Login form loaded	Try login from external script	None	Request rejected			High	Major
TC027	Brute force protection	Detect repetitive attack attempts	Automated tool running	Attempt 10 logins/sec	Random passwords	IP temporarily blocked			High	Major

TC028	Secure cookie	Ensure session	Logged-in session	Inspect cookies	None	Cookies marked			High	Major
	attributes	cookies are secure	active			HttpOnly, Secure				
TC029	Account recovery abuse check	Prevent unlimited recovery attempts	Login page open	Click 'Forgot password' repeatedly	None	Temporary block triggered			Medium	Major
TC030	Cross-site scripting (XSS)	Prevent JavaScript execution	Login page open	Enter <script>alert(1)</script>	Email field	Script not executed			High	Major

4. Usability Testing

TC ID	Test Title	Scenario	Preconditions	Steps	Input	Expected Result	Actual Result	Status	Priority	Severity
TC031	Tooltip Help Availability	Verify tooltip appears on hover over 'Need help?'	Login page open	Hover mouse over 'Need help?' link	None	Tooltip message 'Help and support' displayed			Low	Minor

TC032	Keyboard shortcut	Ensure pressing	Email and password	Press Enter key	None	Login attempt			Medium	Major
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	Enter key	Enter submits login form	entered			triggered				
TC033	Field autocompletion hint	Verify suggestions appear for known emails	Previous emails saved	Type partial email in field	us	Suggestions displayed below field			Medium	Minor
TC034	Error message clarity	Ensure messages use clear language	Invalid login attempt	Enter wrong password	Password: 12345	Message 'Wrong password. Try again.'			Medium	Major
TC035	Tab-key navigation	Verify Tab moves focus sequentially	Login form visible	Press Tab key	None	Focus moves from Email → Password → Next			Low	Minor

TC036	Password reveal label clarity	Ensure eye icon has text label for accessibility	Password field visible	Hover over eye icon	None	Tooltip 'Show password' appears			Low	Minor
TC037	Help center link	Verify click opens	Login screen open	Click 'Help' link	None	Support page opens			Medium	Minor
	redirection	support page				in new tab				
TC038	Text field placeholder guidance	Ensure email and password fields show examples	Login screen open	Observe placeholder text	None	'Enter your email' and 'Enter your password' visible			Low	Minor
TC039	Accessible keyboard focus indicator	Verify visible outline around focused field	Login form loaded	Press Tab to switch focus	None	Highlighted outline visible around field			Medium	Minor

TC040	Help content clarity	Ensure help text is easy to understand	Help section open	Read provided instructions	None	Instructions concise and clear			Medium	Minor
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5. Compatibility Testing

TC ID	Test Title	Scenario	Precondition s	Steps	Input	Expected Result	Actual Result	Status	Priority	Severit y
TC041	Browser compatibility	Verify login page works on multiple browsers	Chrome, Firefox, Edge installed	Open Gmail login page in all browsers	None	Page loads without layout break			Medium	Major
TC042	Mobile view check	Ensure proper display on mobile browser	Mobile browser open	Open Gmail on Android/iOS	None	Page displays mobile UI			Medium	Major
TC043	Tablet responsiveness	Validate scaling on tablet screens	Tablet device ready	Open Gmail login	None	Fields centered, properly scaled			Medium	Major

TC044	Screen resolution adaptability	Test under multiple resolutions	Desktop system available	Change screen resolution	1024x768 → 1920x1080	Layout adapts automatically			Medium	Minor
TC045	OS compatibility	Ensure functionality across OS	Windows, macOS, Linux	Open Gmail in each	None	Works properly on all OS			Medium	Major
TC046	Browser zoom behavior	Check zoom in/out at 75%-125%	Chrome browser open	Zoom page	Ctrl +/–	Page elements scale smoothly			Low	Minor
TC047	Browser language setting	Ensure correct localization	Browser language changed	Set to French/Spanish	None	Text displayed in chosen language			Medium	Minor
TC048	Cookie handling	Verify cookie settings impact login	Cookies disabled	Try to log in	Email/password	Warning to enable cookies			Medium	Major
TC049	Dark mode compatibility	Check UI color adaptation	Dark mode enabled	Open Gmail login	None	Theme switches to dark UI			Medium	Minor

TC050	Third-party plugin interference	Ensure no conflict with browser extensions	Common plugins enabled	Access Gmail login	None	Page loads correctly			Medium	Minor
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6. Performance Testing

TC ID	Test Title	Scenario	Preconditions	Steps	Input	Expected Result	Actual Result	Status	Priority	Severity
TC051	Login response time	Measure time for successful login	Stable internet connection	Enter valid credentials	Email/password	Login completes in <3 seconds			Medium	Major
TC052	Page load speed	Check page initial load time	Browser cache cleared	Open Gmail login	None	Page loads within 2 seconds			Medium	Major
TC053	Error response delay	Check how quickly error appears	Enter invalid password	Click Next	Invalid input	Error displayed in <1 sec			Medium	Major

TC054	Captcha load time	Verify how fast captcha loads	Multiple failed attempts	Trigger captcha	None	Captcha visible within 1 sec			Medium	Minor
TC055	Multi-session handling	Check simultaneous login sessions	Two browsers open	Log in same account	Email/password	No crash or conflict			Medium	Major
TC056	Low network test	Check behavior under slow network	Speed throttled to 2G	Try logging in	Valid credentials	Login still successful			Medium	Major
TC057	Server load handling	Simulate high traffic	Load testing tool ready	Send 100 concurrent logins	Valid credentials	Server remains stable			High	Major
TC058	Cache performance	Validate page reload from cache	First login done	Refresh page	None	Page reloads instantly			Low	Minor
TC059	Logout response time	Measure time for logout process	User logged in	Click 'Sign out'	None	Logout completes instantly			Medium	Minor

TC060	Password reset email delay	Check reset mail arrival time	Click 'Forgot Password'	Submit valid email	user@gmail.com	Email received within seconds			Medium	Major
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