Practical 2: **TEST Scenario for Gmail Login Page**

TEST REPORT			**Test report number**: TR-GMAIL-001
			Test report date: 03/09/2025
Testing done for:		Internal QA Team	
		In-house Testing Department	
Sample Description:		White box Testing of Gmail Login Page	
Status:		Completed Successfully	
Sample received date	**Testing start date**	**Test completion date**	**Testing Method**
12/09/2025	14/09/2025	20/09/2025	White box Testing

TEST RESULTS

Sr. no	Parameters	Unit	Result Obtained	Specification used as per standard
1	Field Validation	Functional	Accepts valid, rejects invalid format	Gmail UI Standards
2	Password validation	Functional	Masks input, rejects empty/invalid values	Gmail UI Standards
3	Session management	Functional	After logout, back button doesn't show inbox	Security Standard
4	Responsiveness	Functional	Page renders correctly on smaller screens	Responsive Design Guidelines

Remarks:
Gmail login page functions as expected for both valid and invalid inputs. Error messages are appropriate, and navigation works correctly across modules.

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Test cases executed:

TC ID	Test Scenario	Steps / Input	White-Box Check	Expected Result	Pass/Fail
GY-001	Login with valid credentials	Enter correct email and password	Check login flow	Inbox loads	Pass
GY-002	Login with invalid email	Enter invalid email	Observe error message	Error shown	Pass
GY-003	Login with invalid password	Enter valid email and wrong password	Observe error	Error shown	Pass
GY-004	Empty email field	Leave email blank	Observe validation	Error shown	Pass
GY-005	Empty password field	Leave password blank	Observe validation	Error shown	Pass
GY-006	Forgot password flow	Click 'Forgot password?'	Check redirect	Password recovery page opens	Pass
GY-007	Forgot email flow	Click 'Forgot email?'	Check redirect	Recovery page opens	Pass
GY-008	Stay signed in option	Check 'Stay signed in' and login	Reopen browser	Session persists	Pass
GY-009	Password masking	Enter password	Check field visibility	Password hidden	Pass
GY-010	Show password option	Click eye icon	Observe password field	Password visible	Pass
GY-011	Caps Lock warning	Enter password with Caps Lock on	Check UI	Warning shown	Fail
GY-012	Network disconnection	Disconnect internet mid-login	Check behaviour	Error: No connection	Pass

GY-013	Multiple wrong attempts	Enter wrong password 5 times	Observe response	Account temporarily locked	Pass
GY-014	Password reset reuse	Use reset link twice	Check response	Second use rejected	Pass
GY-015	Session timeout	Login and stay idle for 20 min	Check session cookie	Session expires	Pass
GY-016	Concurrent login	Login from two browsers	Check session validity	Both valid, alert sent	Pass
GY-017	Cookie inspection	Login and open DevTools → Cookies	Check attributes	Secure & HttpOnly set	Pass
GY-018	Cookie tampering	Modify cookie value	Check response	Login rejected	Pass
GY-019	Logout session invalidation	Logout and reuse cookie	Check server	Session invalid	Pass
GY-020	HTTPS enforcement	Try http://gmail.com	Check redirect	Redirects to HTTPS	Pass
GY-021	Browser autofill	Use saved credentials	Check login	Autofill works securely	Pass
GY-022	Cross-browser compatibility	Login from Chrome, Firefox, Edge	Observe behaviour	Works consistently	Pass
GY-023	Language change option	Change UI language	Check login flow	Works in new language	Pass
GY-024	Mobile number login	Enter registered mobile + password	Observe result	Login success	Pass
GY-025	Unregistered mobile number	Enter invalid mobile	Observe error	Error: Account not found	Pass
GY-026	Special characters in email	Enter abc#@gmail.com	Observe error	Invalid email format	Pass
GY-027	MFA enforcement	Login with MFA-enabled account	Check prompt	MFA requested	Pass

GY-028	Wrong MFA attempts	Enter wrong OTP multiple times	Check behaviour	Account locked	Pass
GY-029	Session renewal	Stay active near timeout	Check cookie	Session extended	Pass
GY-030	Replay login request	Capture request and resend	Observe server	Rejected	Pass
GY-031	CSRF token validation	Submit login without CSRF token	Inspect response	Request blocked	Pass
GY-032	CSRF token reuse	Reuse same token	Inspect response	Rejected	Pass
GY-033	Cache behaviour	Check browser cache after login	Inspect DevTools	No credentials cached	Pass
GY-034	Unicode input handling	Enter Unicode characters	Observe system response	Handled properly	Pass
GY-035	CORS policy	Send cross-site login request	Check response headers	Blocked	Pass
GY-036	API error handling	Send malformed request via DevTools	Check error message	Generic error shown	Pass
GY-037	CAPTCHA trigger	Perform repeated failed logins	Observe UI	CAPTCHA shown	Pass
GY-038	Recovery abuse prevention	Request recovery many times	Check response	Rate-limited	Pass
GY-039	Password reuse prevention	Reset to old password	Observe system	Rejected	Pass
GY-040	Fingerprint validation	Login from different browsers	Observe logs	Risk check triggered	Pass