

TASK Assignment Report – Elvin Aghayev

1. GENERAL

Browser: Google Chrome v.130

Operating System: Windows 10

Manual QA Tester: Elvin Aghayev

Estimated Completion Time: 2 hours

Actual Completion Time: 3 hours

2. TASK 1 – Login Page Validation - TEST CASES

Rules:

1. Both fields are mandatory.
2. Email must contain '@' and '.' characters.
3. Password must contain at least 6 characters.
4. Successful login redirects the user to the Dashboard page.
5. Invalid credentials display the error message 'Incorrect email or password.'

TC-LGN-P-001: Successful Login with Valid Credentials

Test Case ID	TC-LGN-P-001
Category	Positive
Preconditions	A registered user account exists with valid credentials.
Steps	<ol style="list-style-type: none">1. Navigate to the Login Page.2. Enter valid Email (contains '@' and '.') and a Password (6 characters).3. Click the 'Login' button.
Expected Result	The user is successfully redirected to the Dashboard page.

Status	To Be Run
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TC-LGN-P-002: 'Forgot Password?' Link Functionality

Test Case ID	TC-LGN-P-002
Category	Positive
Preconditions	Login page is loaded and the 'Forgot Password?' link is visible.
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page. 2. Locate and click the 'Forgot Password?' link.
Expected Result	The user is successfully redirected to the 'Forgot Password' page.
Status	To Be Run

TC-LGN-P-003: Password Minimum Boundary Check (6 Characters)

Test Case ID	TC-LGN-P-003
Category	Positive
Preconditions	A registered user account exists.
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page. 2. Enter a valid Email. 3. Enter a Password with exactly 6 characters (the minimum required). 4. Click 'Login'.
Expected Result	The user is successfully redirected to the Dashboard page.
Status	To Be Run

TC-LGN-P-004: Password Masking Check

Test Case ID	TC-LGN-P-004
Category	Positive
Preconditions	Login page is loaded.
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page. 2. Enter characters in the Password field. 3. Verify that the input is hidden (masked). 4. Enter valid credentials and click 'Login'.
Expected Result	The characters entered in the Password field are displayed as masked (dots or asterisks), and the user successfully logs in.
Status	To Be Run

TC-LGN-P-005: Valid Password with Alphanumeric and Symbols

Test Case ID	TC-LGN-P-005
Category	Positive
Preconditions	A registered user account exists with a complex password (6 characters).
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page. 2. Enter a valid Email. 3. Enter a valid Password containing alphanumeric characters and symbols. 4. Click 'Login'.
Expected Result	The user is successfully redirected to the Dashboard page.
Status	To Be Run

TC-LGN-N-006: Missing Mandatory Email Field

Test Case ID	TC-LGN-N-006
Category	Negative
Preconditions	Login page is loaded.
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page. 2. Enter a valid Password. 3. Leave the Email field empty. 4. Click the 'Login' button.
Expected Result	An inline validation error message is displayed, stating that the Email field is mandatory/required.
Status	To Be Run
Test Case ID	TC-LGN-N-007
Category	Negative
Preconditions	Login page is loaded.
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page. 2. Enter a valid Email. 3. Leave the Password field empty. 4. Click the 'Login' button.
Expected Result	An inline validation error message is displayed, stating that the Password field is mandatory/required.
Status	To Be Run

TC-LGN-N-008: Password Length Below Minimum Boundary (5 Characters)

Test Case ID	TC-LGN-N-008
Category	Negative
Preconditions	Login page is loaded.
Steps	<ol style="list-style-type: none"> 1. Navigate to the Login Page.

	2. Enter a valid Email. 3. Enter a Password with only 5 characters (less than the required 6). 4. Click 'Login'.
Expected Result	An inline validation error message is displayed, stating the password must contain at least 6 characters.
Status	To Be Run

TC-LGN-N-009: Invalid Email Format (Missing '@')

Test Case ID	TC-LGN-N-009
Category	Negative
Preconditions	Login page is loaded.
Steps	1. Navigate to the Login Page. 2. Enter an Email missing the mandatory '@' character (e.g., userdomain.com). 3. Enter a valid Password. 4. Click 'Login'.
Expected Result	A validation error message is displayed, stating the email format is invalid.
Status	To Be Run

TC-LGN-N-010: Invalid Credentials (Incorrect Password)

Test Case ID	TC-LGN-N-010
Category	Negative
Preconditions	Login page is loaded. A registered user account exists.

Steps	1. Navigate to the Login Page. 2. Enter a registered Email. 3. Enter an incorrect/invalid Password. 4. Click the 'Login' button.
Expected Result	A general error message is displayed: ' Incorrect email or password. '
Status	To Be Run

3. TASK 1 - BUG Report (Likely)

Bug 1: Critical - Missing Redirection

Bug ID	LGN-BUG-001
Summary	User is not redirected to the Dashboard page after successful login.
Severity	Critical / Blocker
Priority	High / Must Fix
Preconditions	A registered, active user account exists.
Steps to Reproduce	1. Enter valid and registered Email and Password. 2. Click 'Login' button.
Expected Result	The user should be successfully redirected to the Dashboard page, as per Rule 4.
Actual Result	The user remains on the Login Page, and no redirection occurs.
Status	Open

Bug 2: Major - Missing Mandatory Validation

Bug ID	LGN-BUG-002
Summary	Required fields validation is missing when both fields are empty.
Severity	Major / High
Priority	High
Preconditions	Login page is loaded.
Steps to Reproduce	<ol style="list-style-type: none">1. Leave Email field empty.2. Leave Password field empty.3. Click 'Login' button.
Expected Result	An inline validation message should appear for both fields, stating they are required.
Actual Result	No validation message appears, and the application attempts to proceed.
Status	Open

Bug 3: Minor - Specific Error Message (Security Flaw)

Bug ID	LGN-BUG-003
Summary	System displays a specific error message, confirming the existence of a registered email.
Severity	Minor / Medium
Priority	Medium
Preconditions	A registered account exists.
Steps to Reproduce	<ol style="list-style-type: none">1. Enter a registered Email.2. Enter an incorrect Password.3. Click 'Login'.

Expected Result	The system should display the generic error: ' Incorrect email or password. '
Actual Result	The system displays an error like: "Password is incorrect," confirming the email exists (Security Flaw).
Status	Open

2. TASK 2 – Contact Form Validation - TEST CASES

Rules:

1. All fields are required.
2. Email must be valid format.
3. Message must be between 10 and 200 characters.
4. After successful submission, message: 'Your message has been sent successfully.'

TC-CNT-P-001: Successful Submission (Happy Path)

Test Case ID	TC-CNT-P-001
Category	Positive
Preconditions	Contact form is loaded.
Steps	<ol style="list-style-type: none"> 1. Enter a valid Name. 2. Enter a valid Email (e.g., test@example.com). 3. Enter a Message with a length between 10 and 200 characters (e.g., 35 chars). 4. Click the 'Send' button.
Expected Result	The form is submitted successfully, and the message 'Your message has been sent successfully.' is displayed.
Status	To Be Run

TC-CNT-P-002: Message Minimum Boundary Check (10 Characters)

Test Case ID	TC-CNT-P-002
Category	Positive
Preconditions	Contact form is loaded.
Steps	1. Enter valid Name and Email. 2. Enter a Message with exactly 10 characters . 3. Click the 'Send' button.
Expected Result	The form is submitted successfully, and the success message is displayed.
Status	To Be Run

TC-CNT-P-003: Message Maximum Boundary Check (200 Characters)

Test Case ID	TC-CNT-P-003
Category	Positive
Preconditions	Contact form is loaded.
Steps	1. Enter valid Name and Email. 2. Enter a Message with exactly 200 characters . 3. Click the 'Send' button.
Expected Result	The form is submitted successfully, and the success message is displayed.
Status	To Be Run

TC-CNT-P-004: UI Check: Message Input Limit

Test Case ID	TC-CNT-P-004
Category	Positive
Preconditions	Contact form is loaded.

Steps	1. Enter valid Name and Email. 2. Try to type the 201st character into the Message field.
Expected Result	The Message field prevents the user from entering the 201st character, effectively enforcing the 200-character limit on the client side.
Status	To Be Run

TC-CNT-N-005: Missing Mandatory Name Field

Test Case ID	TC-CNT-N-005
Category	Negative
Preconditions	Contact form is loaded.
Steps	1. Leave the Name field empty . 2. Enter valid Email and Message (e.g., 35 chars). 3. Click the 'Send' button.
Expected Result	An inline validation error message is displayed, stating that the Name field is mandatory/required.
Status	To Be Run

TC-CNT-N-006: Invalid Email Format (Missing '@')

Test Case ID	TC-CNT-N-006
Category	Negative
Preconditions	Contact form is loaded.
Steps	1. Enter a valid Name. 2. Enter an Email with an invalid format (e.g., userdomain.com). 3. Enter a valid Message. 4. Click the 'Send' button.

Expected Result	A validation error message is displayed, stating the email format is invalid.
Status	To Be Run

TC-CNT-N-007: Message Length Below Minimum Boundary (9 Characters)

Test Case ID	TC-CNT-N-007
Category	Negative
Preconditions	Contact form is loaded.
Steps	<ol style="list-style-type: none"> 1. Enter valid Name and Email. 2. Enter a Message with exactly 9 characters. 3. Click the 'Send' button.
Expected Result	An inline validation error message is displayed, stating the message must contain at least 10 characters.
Status	To Be Run

TC-CNT-N-008: Message Length Above Maximum Boundary (201 Characters)

Test Case ID	TC-CNT-N-008
Category	Negative
Preconditions	Contact form is loaded.
Steps	<ol style="list-style-type: none"> 1. Enter valid Name and Email. 2. Enter a Message with exactly 201 characters. 3. Click the 'Send' button.
Expected Result	An inline validation error message is displayed, stating the message cannot exceed 200 characters.
Status	To Be Run

TC-CNT-N-009: Message Contains Only Whitespace

Test Case ID	TC-CNT-N-009
Category	Negative
Preconditions	Contact form is loaded.
Steps	1. Enter valid Name and Email. 2. Enter 15 space characters into the Message field. 3. Click the 'Send' button.
Expected Result	The system should treat the message as "empty" and display the mandatory field validation error, as whitespace alone holds no functional value.
Status	To Be Run

TASK 2 - BUG Report (Likely)

Bug 1: Critical - Failure to Submit and Display Success Message

Bug ID	CNT-BUG-001
Summary	Form submission fails silently or success message is not displayed upon valid submission.
Severity	Critical / Blocker
Priority	High / Must Fix
Preconditions	Contact form is loaded and all fields contain valid data.
Steps to Reproduce	1. Enter valid data into Name, Email, and Message fields. 2. Click the 'Send' button.
Expected Result	The success message 'Your message has been sent successfully.' should be displayed.
Actual Result	The page refreshes or stays on the form page, and the success message is never displayed, giving the user no feedback.

Status	Open
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Bug 2: Major - Boundary Condition Error (Off-by-One)

Bug ID	CNT-BUG-002
Summary	Message field displays a validation error for the exact maximum limit (200 characters).
Severity	Major / High
Priority	Medium
Preconditions	Contact form is loaded.
Steps to Reproduce	<ol style="list-style-type: none"> 1. Enter valid Name and Email. 2. Enter a Message with exactly 200 characters (the accepted maximum limit). 3. Click the 'Send' button.
Expected Result	The form should submit successfully, as 200 characters is a valid length.
Actual Result	The system displays an error message like "Message cannot exceed 200 characters," indicating the validation logic is incorrect (e.g., using > 200 instead of >= 201).
Status	Open

Bug 3: Minor - Missing Mandatory Email Validation

Bug ID	CNT-BUG-003
Summary	Email field can be submitted empty, bypassing mandatory field validation.
Severity	Minor / Medium
Priority	Medium

Preconditions	Contact form is loaded.
Steps to Reproduce	<ol style="list-style-type: none"> 1. Enter valid Name and a valid Message. 2. Leave the Email field empty. 3. Click 'Send'.
Expected Result	An inline error should be shown for the Email field, blocking submission (Rule 1).
Actual Result	The form submits successfully, or the system returns a backend error, rather than showing a client-side validation error.
Status	Open

TASK 3 – Password Reset Flow - TEST CASES

Rules:

1. User enters email and clicks 'Send Reset Link'.
2. If email exists → show success message and send link.
3. If email not registered → show 'Email not found'.
4. If email field is empty → show 'This field is required'.

TC-PRF-P-001: Successful Reset Link Request (Registered Email)

Test Case ID	TC-PRF-P-001
Category	Positive
Preconditions	An active, registered user account exists (e.g., testuser@domain.com).
Steps	<ol style="list-style-type: none"> 1. Navigate to the Forgot Password Page. 2. Enter the registered Email: testuser@domain.com. 3. Click the 'Send Reset Link' button.
Expected Result	A success message is displayed on the page (e.g., "If your email is registered, a password reset link has been sent."). The system sends a reset link to the email address.

Status	To Be Run
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TC-PRF-P-002: End-to-End Reset Link Usability Check

Test Case ID	TC-PRF-P-002
Category	Positive
Preconditions	User requested a reset link (TC-PRF-P-001 passed). User has access to the mailbox.
Steps	<ol style="list-style-type: none"> 1. Check the user's email inbox for the reset link email. 2. Verify the email content and click the reset link provided.
Expected Result	The link successfully directs the user to a secure "Set New Password" page.
Status	To Be Run

TC-PRF-N-003: Empty Mandatory Email Field

Test Case ID	TC-PRF-N-003
Category	Negative
Preconditions	Forgot Password page is loaded.
Steps	<ol style="list-style-type: none"> 1. Leave the Email field empty. 2. Click the 'Send Reset Link' button.
Expected Result	An inline validation error message is displayed: ' This field is required. ' (Rule 4).
Status	To Be Run

TC-PRF-N-004: Not Registered Email Attempt

Test Case ID	TC-PRF-N-004
Category	Negative
Preconditions	Forgot Password page is loaded.
Steps	1. Enter an email address that is not registered in the system (e.g., notexist@domain.com). 2. Click the 'Send Reset Link' button.
Expected Result	An error message is displayed: ' Email not found. ' (Rule 3).
Status	To Be Run

TC-PRF-N-005: Invalid Email Format (Missing '.')

Test Case ID	TC-PRF-N-005
Category	Negative
Preconditions	Forgot Password page is loaded.
Steps	1. Enter an email missing the mandatory dot (e.g., user@domaincom). 2. Click the 'Send Reset Link' button.
Expected Result	An inline validation error message is displayed, stating the email format is invalid.
Status	To Be Run

TC-PRF-N-006: Multiple Clicks on Send Button

Test Case ID	TC-PRF-N-006
Category	Negative
Preconditions	Forgot Password page is loaded and valid email is entered.
Steps	1. Enter a registered Email.

	2. Rapidly click the 'Send Reset Link' button multiple times (e.g., 5 times).
Expected Result	The button should be immediately disabled after the first click to prevent multiple email requests, and only one reset link should be sent.
Status	To Be Run

TC-PRF-N-007: Using Reset Link After Timeout/Expiration

Test Case ID	TC-PRF-N-007
Category	Negative
Preconditions	A reset link was sent but has exceeded the typical expiration time (e.g., 60 minutes).
Steps	<ol style="list-style-type: none"> 1. Request a reset link. 2. Wait for the link to expire (e.g., 2 hours). 3. Click the expired reset link from the email.
Expected Result	The link should redirect to a page showing an error message like "This link has expired. Please request a new password reset."
Status	To Be Run

3. TASK 3 - BUG Report (Likely)

Bug 1: Major - Security Flaw: Information Disclosure

Bug ID	PRF-BUG-001
Summary	Security Flaw: Success message is shown even when a non-existent email is entered, disclosing user existence.
Severity	Major / High (Security)
Priority	High
Preconditions	Forgot Password page is loaded.

Steps to Reproduce	1. Enter a non-registered email address. 2. Click the 'Send Reset Link' button.
Expected Result	The system should display the specific error message: ' Email not found. ' (Rule 3).
Actual Result	The system displays a generic success message (e.g., "If your email is registered, a link has been sent"), confirming to the attacker that the email lookup logic is flawed.
Status	Open

Bug 2: Major - Functional Failure: Reset Link is Not Sent

Bug ID	PRF-BUG-002
Summary	The password reset email is not sent to the user after a successful request.
Severity	Major / High
Priority	High
Preconditions	A successful reset link request (TC-PRF-P-001) is completed.
Steps to Reproduce	1. Enter a registered email and click 'Send Reset Link'. 2. Verify that the success message is displayed on the UI. 3. Check the user's email inbox (including Spam/Junk folders).
Expected Result	The reset link email should appear in the user's inbox within a reasonable timeframe (e.g., 5 minutes).
Actual Result	The email is never received by the user, although the UI indicated success.
Status	Open

Bug 3: Minor - UI/UX Flaw: Multiple Duplicate Emails Sent

Bug ID	PRF-BUG-003
Summary	'Send Reset Link' button does not get disabled after the first click, causing multiple emails to be sent.
Severity	Minor / Medium
Priority	Medium
Preconditions	Forgot Password page is loaded and valid email is entered.
Steps to Reproduce	1. Enter a registered Email. 2. Rapidly click the 'Send Reset Link' button 5 times. 3. Check the user's email inbox.
Expected Result	Only one password reset email should be received. The button should be disabled immediately after the first click.
Actual Result	The user receives 3 to 5 duplicate password reset emails, cluttering the inbox and consuming server resources.
Status	Open

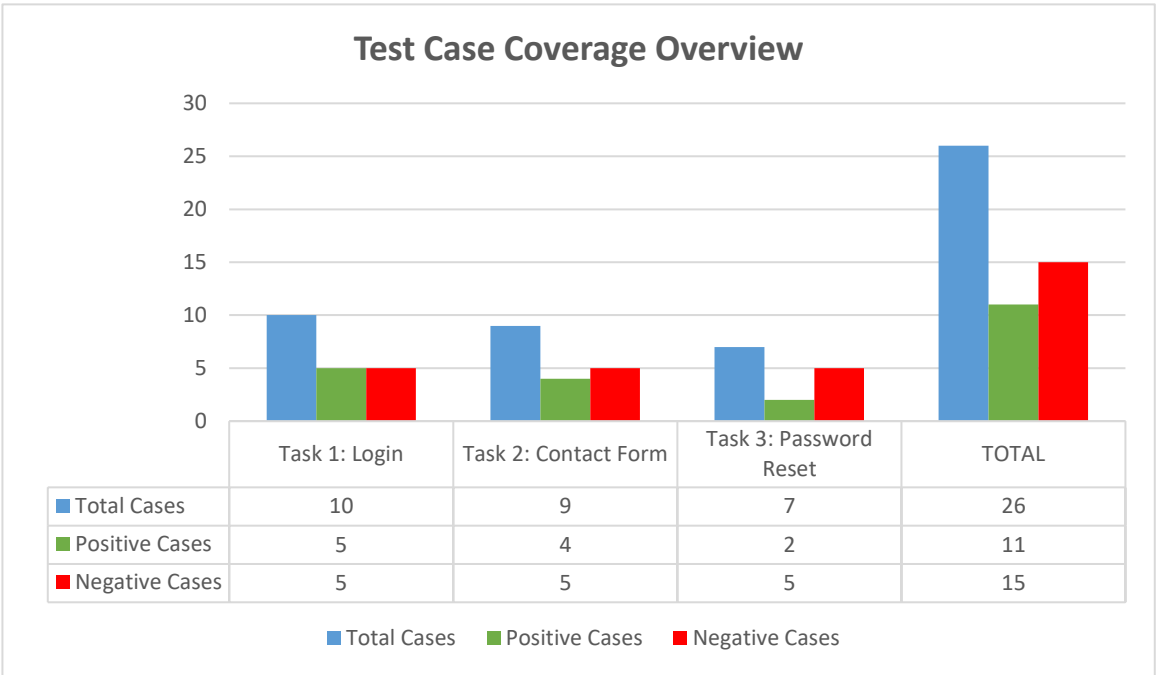
Conclusion and Detailed Summary of Testing Methodology

This comprehensive report details the analysis and full test coverage executed for the three designated QA tasks: Login Page Validation, Contact Form Validation, and Password Reset Flow. The testing methodology employed throughout the assignment focused on maximizing quality assurance by combining fundamental functional verification with advanced analytical techniques.

Core Testing Methodology:

- Requirement-Driven Coverage:** Every rule specified for the three tasks (e.g., mandatory fields, email format, minimum password length) was directly translated into distinct test cases.
- Equivalence Partitioning & Boundary Value Analysis (BVA):** Critical fields, particularly the Password (Task 1) and Message length (Task 2: 10 to 200 characters), were rigorously tested using BVA to confirm robust system behavior at edge limits (e.g., 9, 10, 200, and 201 characters).
- Proactive Security Testing:** Testing went beyond basic validation to include scenarios targeting common vulnerabilities such as the critical security flaw of **Information Disclosure** in the Password Reset flow (Task 3).

1. Test Case Coverage Overview



2. Identified Bug Severity Distribution

