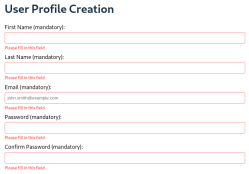
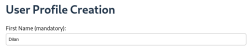
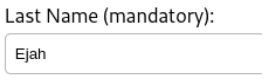
Exploratory Testing of a Web Form For User Profile Creation

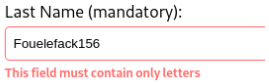
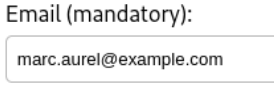
The aim of this report is to outline how the user profile creation process on https://playwright-lab.web.app/ validates various user inputs and handles errors effectively.

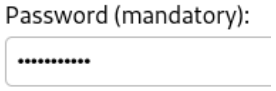
- ## Test cases

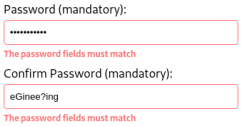
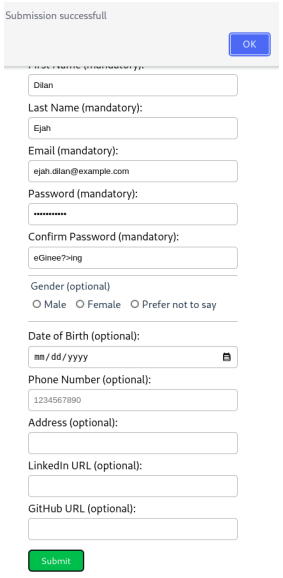
The test cases are organized in a table format, which can be used to track what was tested, expected behavior, actual behavior, and the results of the test given by a screenshot. The exploratory test cases outlined in the table below were performed using two browsers, **Chromium 120.0.6099.224** and **Mozilla Firefox 128.3.1esr**, both in incognito mode, to verify the proper functionality of the web form.

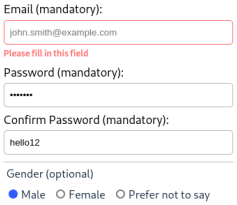
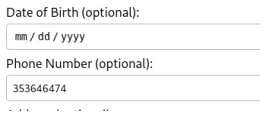
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
TC001	Submit the form without any entries (blank form submission	Don't input any entry in all the fields (all fields blank) and click the submit button.	Error messages for all mandatory fields: First Name, Last Name, Email, Password, and Confirm Password.	The form prevents submission and displays clear error messages "Please fill out this field" for each mandatory field as shown below 	Passed

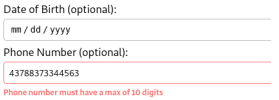
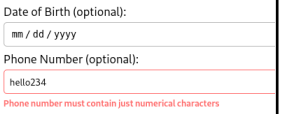
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
TC002	Test for valid first name entry (alphabetical characters only)	Enter “Dilan” in the First Name field and click the submit button.	“Dilan” should be accepted as a valid First Name entry.	Form accepted “Dilan” as a valid first name 	Passed
TC003	Test for invalid first name entry (non-alphabetical characters)	- Enter “Dilan12?>” in the First Name field and click the submit button. - Enter “Jason&?\” in the First Name field and click the submit button.	An error message should be displayed below the First Name input field indicating only alphabetical characters are allowed.	Error message displayed below the First Name input field as “This field must contain only letters”	Passed
TC004	Test for valid last name entry (alphabetical characters only)	- Enter “Foueleface” in the Last Name field and click the submit button. - Enter “Ejah” in the Last Name field and click the submit button.	“Foueleface” and “Ejah” should be accepted as a valid Last Name entry.	Form accepted “Foueleface” and “Ejah” as a valid last name 	Passed

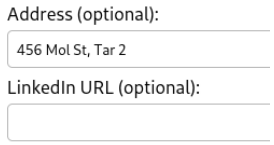
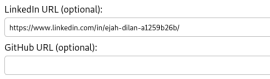
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
TC005	Test for invalid last name entry (non-alphabetical characters)	- Enter “Fouelefack156” in the Last Name field and click the submit button. - Enter “Ejah/?;” in the Last Name field and click the submit button.	An error message should be displayed below the Last Name input field indicating only alphabetical characters are allowed.	Error message displayed below the Last Name input field as “This field must contain only letters” 	Passed
TC006	Test for valid email address entry	- Enter ejah.dilan@example.com and click the submit button. - Enter marc.aurel@example.com and click the submit button.	The email should be accepted and validated correctly without any error displayed on the screen.	Emails ejah.dilan@example.com and marc.aurel@example.com were accepted 	Passed
TC007	Test for invalid email address entry	- Enter ejah.dilan@example(missing “.com”) and click the submit button.	An error message should appear stating that the email is not valid.	Error message displayed stating “Email is not valid”	Passed

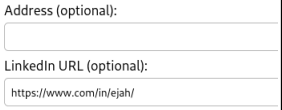
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
		- Enter marcaurelexample.com (missing “@” and “.”) and click the submit button.			
TC008	Test for valid password entry (accepting alphanumeric characters and symbols)	- Enter "P@ssw0?/rd" in the Password field and click the submit button. - Enter “eGinee?>ing" in the Password field and click the submit button. - Enter “string12" in the Password field and click the submit button.	"P@ssw0?/rd”, “eGinee?>ing" and “string12” should be accepted as valid passwords.	"P@ssw0?/rd”, “eGinee?>ing" and “string12” were accepted as valid passwords 	Passed
TC009	Test for password mismatch in “Confirm Password” field	- Enter “eGinee?>ing" in the Password field, then proceed by entering “eGinee?ing" and	An error message should appear stating that the passwords do not match.	Error message displayed stating “The password fields must match”	Passed

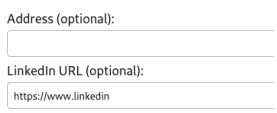
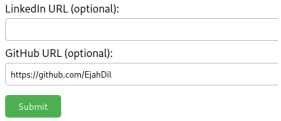
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
		click the submit button.			
TC010	Test submitting the form without filling any of the optional fields.	- Fill in all mandatory fields with valid data: First Name: "Dilan" Last Name: "Ejah", Email: "ejah.dilan@example.com", Password: "eGinee?>ing", Confirm Password: "eGinee?>ing". - Leave all optional fields blank and click the submit button.	The form should be successfully submitted without errors or warnings since all mandatory fields are filled. Optional fields remain blank.	The form was successfully submitted without errors. No warnings displayed for the blank optional fields. 	Passed

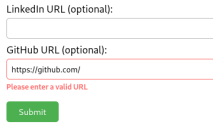
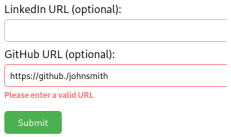
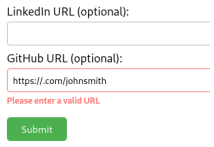
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
TC011	Test for valid gender selection	- Select “Male” from the Gender options and click the submit button. - Select “Female” from the Gender options and click the submit button. - Select “Prefer not to say” from the Gender options and click the submit button.	The gender selection should be accepted without any errors displayed.	Gender selection "Male", "Female" and "Prefer not to say" were all accepted. 	Passed
TC012	Test for valid phone number entry (accepting only numeric characters with a maximum length of 10)	- Enter "4378837334" in the Phone Number field and click the submit button. - Enter "353646474" in the Phone Number field and click the submit button.	The phone numbers "4378837334" and "353646474" should be accepted without any error display.	The phone numbers "4378837334" and "353646474" were accepted. 	Passed

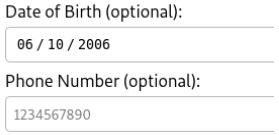
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
TC013	Test for invalid phone number entry (more than 10 digits or not accepting alphabetical characters or symbols)	- Enter "43788373344563" in the Phone Number field and click the submit button. - Enter "hello234" in the Phone Number field and click the submit button.	An error message should be displayed indicating the phone number is invalid.	Error message displayed, stating "Phone Number must have a max of 10 digits" for the entry "43788373344563"  Error message displayed, stating "Phone number must contain just numerical characters" for the entry "hello234" 	Passed
TC014	Test for valid address entry	- Enter “456 Mol St, Tar 2" in the	“456 Mol St, Tar 2”, “" and “596 Gar2	"456 Mol St, Tar 2”, “" and “596 Gar2	Passed

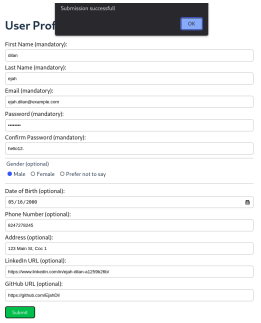
Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
	(accepting alphanumeric characters and symbols)	Address field and click the submit button. - Enter “596 Gar2 St, Coc?s" in the Address field and click the submit button.	St, Coc?s” should be accepted as valid addresses.	St, Coc?s” were accepted as valid addresses 	
TC015	Test for valid LinkedIn URL entry	- Enter “https://www.linkedin.com/in/ejah-dilan-a1259b26b/” in the LinkedIn URL field and click the submit button. - Enter “https://www.linkedin.com/in/johnsmith” in the LinkedIn URL field and click the submit button.	The LinkedIn URL should be accepted without any error display.	Both LinkedIn URLs were accepted and validated. 	Passed
TC016	Test for an invalid LinkedIn URL entry	- Enter “https://www.linkedin/johnsmith” in the LinkedIn URL field and click the submit	An error message should be displayed indicating an invalid LinkedIn profile URL.	The LinkedIn URL input field incorrectly validates the following invalid LinkedIn URLs as	Failed

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
		button. - Enter “https://www.linkedin” in the LinkedIn URL field and click the submit button. - Enter “https://www.com/in/ejah-dilan-a1259b26b/” in the LinkedIn URL field and click the submit button. - Enter “https://www.com/in/ejah/” in the LinkedIn URL field and click the submit button.		valid: https://www.linkedin/johnsmith https://www.com/in/ejah-dilan-a1259b26b/ https://www.com/in/ejah/  "https://www.linkedin	

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
				 No error message is displayed, and the form can be submitted despite the invalid entries.	
TC017	Test for valid Github URL entry	- Enter “https://github.com/EjahDil” in the LinkedIn URL field and click the submit button. - Enter “https://github.com/johnsmith” in the LinkedIn URL field and click the submit button.	The Github URL should be accepted without any error display.	Both Github URLs were accepted and validated. 	Passed
TC018	Test for an invalid Github URL entry	- Enter “https://github.com/” in the Github URL field and click the submit button.	An error message should be displayed indicating an invalid Github profile URL.	Error message displayed, stating "Please enter a valid URL" when the following invalid	Passed

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
		- Enter “https://github./johnsmith” in the LinkedIn URL field and click the submit button. - Enter “https://.com/johnsmith” in the LinkedIn URL field and click the submit button.		Github URLs are entered in the Github URL input field https://github.com/  https://github./johnsmith  https://.com/johnsmith 	

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
TC019	Test for valid Date of Birth entry (accepting a valid date in the format of YYYY-MM-DD)	- Attempt to enter a date manually in the **YYYY-MM-DD** format. - Observe the behavior of the Date of Birth input field.	The Date of Birth input field should accept and validate dates in the YYYY-MM-DD format.	The input field does not allow manual entry of dates, enforcing use of the date picker only with format **MM-DD-YYYY.** 	Failed
TC020	Test for submitting the web form with all input fields filled.	- Enter "Dilan" in the First Name field. - Enter “Ejah" in the Last Name field. Enter "ejah.dilan@example.com" in the Email field. - Enter "hello12." in the Password field. Re-enter “hello12." in the Confirm	The form should be successfully submitted without errors, and the user should receive a confirmation of submission.	The form was successfully submitted, and a confirmation message was displayed.	Passed

Test Case ID	Description	Test Steps	Expected Result	Actual Result	Status
		Password field. - Select "Male" for Gender. - Enter "2000-05-16" in the Date of Birth field. - Enter "8247278245" in the Phone Number field. - Enter "123 Main St, Coc 1" in the Address field. - Enter "https://www.linkedin.com/in/ejah-dilan-a1259b26b/" in the LinkedIn URL field. - Enter "https://github.com/EjahDil" in the GitHub URL field.			

- **Bug Report**

This section presents a detailed table summarizing all the issues identified during the execution of the previously discussed test cases, providing comprehensive information about each bug. The bug table highlights issues in the functionality of the User Profile Creation web form, providing developers with clear guidance on where the problems have been identified. This enables quick resolution of the issues and allows for timely updates to the bug statuses in the table.

Bug ID	Description	Steps To Reproduce	Expected Result	Actual Result	Severity	Status	Comments
BUG001	LinkedIn URL input field accepts invalid URLs	- Open the form and enter any of the following invalid URLs in the LinkedIn URL field: https://www.linkedin/johnsmith https://www.com/in/ejah-dilan-a1259b26b/ https://www.com/in/ejah/	The LinkedIn URL input field should reject the invalid URLs and display an error message like "Please enter a valid LinkedIn profile URL."	The LinkedIn URL input field accepts the invalid URLs listed below: https://www.linkedin/johnsmith https://www.com/in/ejah-dilan-a1259b26b/ https://www.com/in/ejah/ "https://www.linkedin No error	**High**	Open	The validation logic for LinkedIn URLs should be updated to check for the correct format given by https://www.linkedin.com/in/<profile-identifier>.

Bug ID	Description	Steps To Reproduce	Expected Result	Actual Result	Severity	Status	Comments
		"https://www.linkedin - Click the Submit button.		message is displayed, and the form is successfully submitted.			
BUG002	The Date of Birth input field does not support manual entry in the YYYY-MM-DD format as required by the user story.	- Navigate to the Date of Birth input field. - Attempt to manually enter a date in the format YYYY-MM-DD.	The Date of Birth input field should accept and validate dates in the format YYYY-MM-DD	The input field only allows date selection via the date picker in the MM-DD-YYYY format.	**Low**	Open	The date format implemented on the User Profile Creation web form does not align with the date format specified in the user story used for its development.
BUG003	Mismatch in Gender field options	- Navigate to the User Profile Creation form and observe the available options under the Gender field.	The Gender field should include four options as specified in the user story.	The Gender field options do not match the user story; some options are missing.	**Low**	Open	