**Quality Part**

b. Test Cases:

1. Verify that the UI is matching the required design.
2. Verify that the user can select the gender.
3. Verify that the user can change the selected gender
4. Verify that the user can add his first name
5. Verify that the first name field cannot be empty
6. Check system behavior while leaving the first name field empty
7. Verify the required validations for first name field (special characters, spaces, ..)
8. Verify that the user can add his last name
9. Verify that the last name field cannot be empty
10. Check system behavior while leaving the last name field empty
11. Verify the required validations for last name field (special characters, spaces,..)
12. Verify that user can select the day of birth
13. Verify that the user can select the month of birth
14. Verify that the user can select the year of birth
15. Check system behavior while selecting year of birth and leave the day and month fields empty
16. Execute Test case no. 15 and fill only one field from the available
17. Check system behavior while leaving the date fields empty as it’s not mandatory
18. Verify that the user can add his valid email
19. Check system behavior while adding invalid email
20. Check system behavior while adding invalid format of email
21. Check system behavior while leaving the email field empty
22. Check system behavior while adding a same email that was registered before
23. Verify that the user can add the company name
24. Check the validations for the field
25. Check system behavior while leaving the company field empty
26. Verify that the user can check the box for the newsletter
27. Verify that checking the box for the newsletter is not mandatory
28. Verify that the user can add the password
29. Verify that the user can add the same password to the confirmation field
30. Check system behavior if the value in the password field doesn’t match the value added in the confirmation field
31. Check system behavior while adding the password and leaving the confirmation field empty
32. Check system behavior while leaving the password field empty and add the confirmation password
33. Verify the required validations for the password
34. Check the spelling for all texts in the page
35. Verify that the user can click on the register button
36. Verify that the user can register with his valid data
37. Check system behavior while clicking on register button without filling any of the fields
38. Check system behavior after filling all the fields then refresh the page without clicking on register button
39. Verify that the registration page will be empty after clicking on back button while I am in the home page after registration
40. Verify that the user can login with his credentials after registration

**1st Detailed test case:**

Title: Verify that the user can register with his valid data

Steps:

1. Navigate to URL “[nopCommerce demo store](https://demo.nopcommerce.com/)”
2. Click on “Register” button
3. Fill all the required fields with valid data
4. Click on register button

Expected Results:

1. A success message will be displayed
2. The user will be navigated to success page with “continue” button
3. The user can login with his credentials
4. The user will be added to the database

SQL Query:

Select \* From table\_name where email=””

**2nd Detailed test case:**

Title: Check system behavior after filling all the fields then refresh the page without clicking on register button

Steps:

1. Navigate to URL “[nopCommerce demo store](https://demo.nopcommerce.com/)”
2. Click on “Register” button
3. Fill all the required fields with valid data
4. Refresh the page

Expected results:

1. The page will be refreshed and the fields will be empty
2. No values will be saved to the database

SQL Query:

Select \* From table\_name where email=””

**1st Detailed test case using Gherkin:**

Scenario: add a duplicated email to email field

Given I have navigated to registration page

And I filled email field with a duplicated email

When I click on register button

Then a message will be displayed informing that the email is already registered before

**2nd Detailed test case using Gherkin:**

Scenario: Click on register button without filling one or more of the required fields

Given I have navigated to registration page

And I filled all the required fields except the first name

When I click on register button

Then a message will be displayed informing that the first name field is mandatory

**Report a bug:**

Summary: The user is not able to register to the system without filling the “company name” field. However, it’s not mandatory.

Steps:

1. Navigate to URL “[nopCommerce demo store](https://demo.nopcommerce.com/)”
2. Click on “Register” button
3. Fill all the required fields with valid data   
   (Leave the company name field empty as it’s not mandatory)
4. Click on “Register” button

Actual result:

A message was displayed informing the user that he should fill the company name field

Expected result:

The user should be able to register without filling the company name field

Priority:

High

Version:

V1.0

Attachments:

Attached a screenshot of the error message and a gif for the full scenario

**Agile part:**

1. Difference between burnup and burn down charts?

Mangers use both of the charts to track the progress of the project in Agile scrum. A burn down chart shows how much work is remaining to be done in the project, whereas a burn up chart shows how much work has been completed, and the total amount of work.

1. Difference between Epic, user story and tasks?

Epic is defined in the beginning of a project and decomposed into user stories which are smaller units of user functionality and have points to simulate the load and they have the description of the function and the acceptance criteria. These user stories are consist of small tasks showing how the story will be completed and they are defined by the person who is doing the work.

**API Technical part:**

1. What is API?

API is a connection between computers and computer programs allows the user to access the data without using the user interface.

1. What is API Testing?

API testing is performed at the most critical layer of software , the Business Layer. Testing all transactions between User Interface(UI) and database.

1. The most known API Testing tool?  
   1. Rest-assured  
   2. Postma.  
   3. Jmeter  
   4. Soup ui

**DB Part:**

1. What is DBMS?

It’s a software for storing and retrieving users’ data while considering appropriate security measures. It consists of a group of programs which manipulate the database.

1. What is DB?

It’s a collection of data. They support electronic storage and manipulation of data. Databases make data management easy

1. What is database testing?  
   Database testing involves the retrieved values from the database by the web or desktop application. Data in the User Interface should be matched as per the records are stored in the database.
2. What is sql?  
   it is a computer language for storing, manipulating and retrieving data stored in a relational database.

**SQL Part:**

Mention the error:

1. “=” operator is a single row operator and the given query is a multiple row subqueries so the = operator cannot be used in it
2. “GROUP BY” Clause is missed
3. HAVING should be used instead on WHERE clause

Assignment 2:

SELECT first\_name, last\_name, count (distinct item) as items

FROM Customers

GROUP BY cutomer\_code

HAVING count (distinct item)>1;