Benchmark Capital Technical Test Notes

By: Govind Nayak   Last Updated: 25 May 2023

Information copied from the Feature File provided in the Git repo.

Feature: ContactUs

As a customer

I want to contact customer services

So that I can get support

Description:

A Contact Form that allows customers to send a message to customer servies.

In submitting a message the customer uses the subject line to indicate the message title.

*In submitting a message the customer **must** provide a valid 'Email address' and a 'Messsage' body for the message to be submitted successfully.*

Commented [GN1]: Functional Requirement 1

*In submitting a message, the customer **can** provide a valid 'Phone' number.*

Commented [GN2]: Functional Requirement 2

Glossary:

Basic Message - A message that can be submitted.

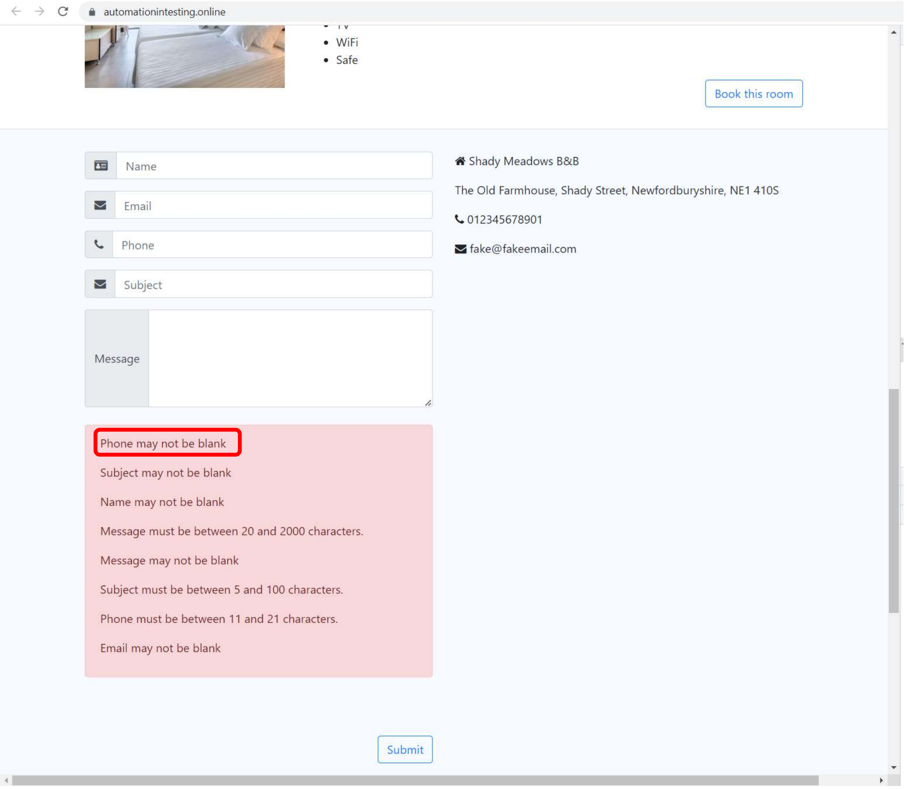
Invalid Email Address - An empty string

Commented [GN3]: Functional Requirement 3

Malformed Email Address - An email address that does not validate as an email address, e.g. missing domain

Commented [GN4]: Functional Requirement 4

Screenshot showing 'error/input validation messages' shown on https://automationintesting.online/



Shady Meadows B&B

The Old Farmhouse, Shady Street, Newfordburyshire, NE1 410S

012345678901

fake@fakeemail.com

Phone may not be blank

Subject may not be blank

Name may not be blank

Message must be between 20 and 2000 characters.

Message may not be blank

Subject must be between 5 and 100 characters.

Phone must be between 11 and 21 characters.

Email may not be blank

Benchmark Capital Technical Test Notes

By: Govind Nayak   Last Updated: 25 May 2023

Based on the Validation error messages shown to the user, following are my comments related to the deemed requirements (as the requirements are not stated explicitly) and the bugs found during testing. I believe this work needs more that 30-40 minutes to do a good job including tech. debt reduction by refactoring the code.

Name may not be blank – This functional requirement is not stated explicitly in the Feature file. In real world scenario as a good practice, this must be clarified with the associated PO/BA, and it shall be clearly stated in the user story/specification. ***For the purpose of this assignment, 'nonblank Subject field' is deemed to be the current requirement.***

Email may not be malformed – There is a bug related to this as the current implementation does not prevent emails addresses with '_' (underscore symbol) in the domain part which is a requirement as per RFC 5322 (sections 3.2.3 and 3.4.1) and RFC 5321.

Phone may not be blank – This is a bug, as per the stated 'functional requirement 2' (refer above), a user **CAN** provide a valid 'Phone' number, hence this is not classified as a mandatory input. Hence an empty 'Phone' field shall not stop the user from submitting the form.

Phone must be between 11 and 21 characters. – This functional requirement is not stated explicitly in the Feature file. In real world scenario as a good practice, this must be clarified with the associated PO/BA, and it shall be clearly stated in the user story/specification. ***For the purpose of this assignment, if a user provides a Phone Number, this constraint is deemed to be the current requirement.***

Subject may not be blank – Stated 'functional requirement 1' (refer above), is ambiguous and does not explicitly state if a user can submit the form with an empty 'Subject' field or not. In real world scenario as a good practice, this must be clarified with the associated PO/BA, and it shall be clearly stated in the user story/specification. ***For the purpose of this assignment, 'nonblank Subject field' is deemed to be the current requirement.***

Subject must be between 5 and 100 characters. – This functional requirement is not stated explicitly in the Feature file. In real world scenario as a good practice, this must be clarified with the associated PO/BA, and it shall be clearly stated in the user story/specification. ***For the purpose of this assignment, this constraint is deemed to be the current requirement.***

Message must be between 20 and 2000 characters. – This functional requirement is not stated explicitly in the Feature file. In real world scenario as a good practice, this must be clarified with the associated PO/BA, and it shall be clearly stated in the user story/specification. ***For the purpose of this assignment, this constraint is deemed to be the current requirement.***

Code refactoring:

I have refactored the code to make it reusable. This could have been further improved to follow SOLID design principles and make it more extensible. I have also rephrased the Scenario descriptions so that the tests appear appropriately sorted in a semantic order.

Manual Test Cases:

I have marked certain test cases due to time constraints or to avoid adding unnecessary complexity to the test code e.g. the tests for checking contents with only numeric and special characters.