Software Engineering for Geoinformatics

Test Plan and Test Report

Web-based Visualization of
Attraction Points of Milan

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Test Plan

Introduction

The implementation of the application service will be examined. The test to be carried out depends on various factors like the inter dependencies of the modules and complexities. It should be able to discover the errors of the design. It must identify the errors and the possibility to correct them as soon as possible.

Features to be Tested

The possible test cases are mentioned explaining the interaction between user and input expected output understanding the hypothesis.

Test Case 1:

Input: Users access the registration page, inserts username, email, password and confirms password then clicks sign up button.

Hypothesis: the inserted mail is invalid.

Expected Result: the system informs the user that the email is invalid.

Test Case 2:

Input: User access the registration page, inserts username, email, password, and confirmation of password then clicks on sign up button.

Hypothesis: The inserted username or email belongs to on a pre-registered user.

Expected Result: The system informs user that the user already exists.

Test Case 3:

Input: User access the login page and inserts username xyz4567, password 23456.

Hypothesis: The user is registered in the system with the username hkl1515, password 23456.

Expected Result: The system informs the user that the inserted username is not registered.

Test Case 4:

Input: User access the login page and inserts username xyz4567, password 23456.

Hypothesis: The user is registered in the system with the username xyz4567,

password 987645.

Expected Result: The system warns user to check inserted username and password.

Test Case 5:

Input: User access the discover page and searches for a place named "zubi piazza".

Hypothesis: The place with the name "zubi piazza" does not exist in the system.

Expected Result: The system informs the user that the place with a given name does not exist.

Test Case 6:

Input: User searches a location 'Duomo'.

Hypothesis: The system allows the user to access the database to show the details of the location 'Duomo'.

Expected Result: The system informs the user about the location 'Duomo' and link for the map view.

Test Case 7:

Input: After searching the location 'abc' user clicks on the map link.

Hypothesis: The web application connects the user from home page to mapping interface.

 Expected Result: The system indicates the location 'abc' in the map.

Test Case 8:

Input: User registers with entering the name, surname, and email id.

Hypothesis: The registration is allowed, and data is stored.

Expected Result: The system informs the user that registration is successful.

Test Case 9:

Input: User searches a beach.

Hypothesis: The description of the beach is displayed with a link to access the maps.

Expected Result: The system displays the location of the beach and a link to open the map.

Test Reports

Test Case 1:

Input: Users access the registration page, inserts username, email, password and confirms password then clicks sign up button.

Observation: The user enters an invalid credentials, the system shows invalid details.

Result: Test is successful.

Test Case 2:

Input: User access the registration page, inserts username, email, password, and confirmation of password then clicks on sign up button.

Observation: The information entered already exists in the database, the system must show user already exists.

Result: The test is successful.

Test Case 3:

Input: User access the login page and inserts username xyz4567, password 23456.

Observation: The username is incorrect; the system must show invalid username.

Result: The test is successful.

Test Case 4:

Input: User access the login page and inserts username xyz4567, password 23456.

Observation: Both username and password are invalid.

Result: The test is successful.

Test Case 5:

Input: User access the discover page and searches for a place named "zubi piazza".

Observation: The system shows the place doesn't exist.

Result: The test is successful.

Test Case 6:

Input: User searches a location 'Duomo'.

Observation: The system shows the location of duomo and
pops up the link to a website.

Result: The test is successful.

Test Case 7:

Input: After searching the location 'abc' user clicks on the map link.

Observation: The system connects the user from general website to the map
interface.

Result: The test is successful.

Test Case 8:

Input: User registers with entering the name, surname, and email id.

Observation: The system shows registration is successful.

Result: The test is successful.

Test Case 9:

Input: User searches a beach.

Observation: The system displays the location of the place and the link to the
website associated with the location.

Result: The test is successful.

Project Summary

A major part of the goal is achieved. The locating POIs have
been implemented successfully. The visualization of the tourist
locations as per user's choice is designed. The user can easily
locate the major tourist attractions using our website. It also
allows user to visit the official website of that location where,
the user can find further information. The map interface is made
interesting to use.

Tasks Left

- The possibility to allow user for updating the information regarding the POIs is yet to be implemented.
- Allowing users to view the ratings provided by registered users.
- Allocating rankings/score to the registered users for the reviews.
- Detailed modification of the view of the Map interface.
- Few updating in the account page is to be done.

Risks and Contingencies

- The system allows the registered users to update the information in the database.
- The user may search for the place that does not exist in the database.
- Although the data could be false or mis-leading. The investigation of the data provided by the registered users is not monitored.
- The Correction of entered data by the users is yet to be implemented.

References

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