RoadFix project by Haakon Flaten - Paal Kjekstad

Test Plan Document

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1 Introduction

1.1 Purpose

The test plan document will describe how the web application RoadFix is running and problems that occur. This test plan is not complete and there are some vital parts of the web app that are missing for obtaining full functionality. For more information about the functionality and the design of RoadFix the design document (DD) and requirment analysis document (RASD) should be read.

1.2 Reference Document

The assignment document: AY20-21 Project.pdf

2 Overview

The RoadFix aims to make it easier for the Road owner to allocate resources. In order to do that the program needs to be able to implement the most essential functions. We have chosen some essential functions to be tested:

1. Register user

2. Login

3. Rate damages

4. Visualize damages on a map with colors

Unfortunately, point 3 and 4 will not be tested in this document since they are not complete.

3 Metrics

Test cases planned	Test cases executed	Test cases passed	Test cases failed
9	9	9	0

4 Test case

4.1 Register user

4.1.1 Test 1

Testing with same password and username. Program redirects the user to Login page.

Figure 1: Correct registration

Figure 2: Redirected to Login

4.1.2 Test 2

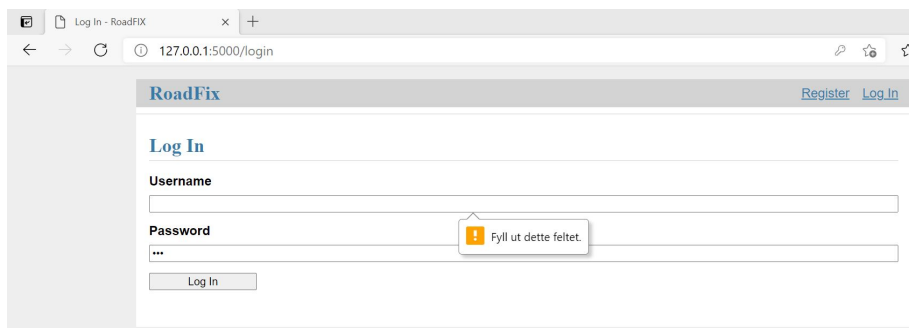Testing without username. Program ask user to insert username.

Figure 3: Without username

4.1.3 Test 3

Testing without password. Program ask user to insert password.

Figure 4: Without password

4.2 Login

4.2.1 Test 1

Testing with a registered username and password. Program redirects the user to homepage.
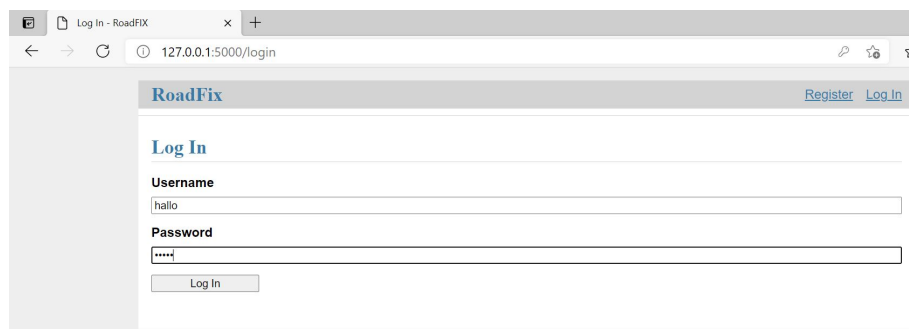

Figure 5: Registered username and password

Figure 6: Redirected to homepage

4.2.2 Test 2

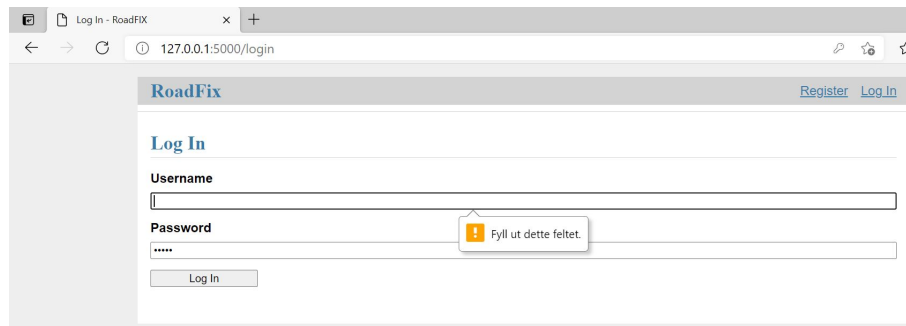Testing without username. Program ask user to insert username.

Figure 7: Without username

4.2.3 Test 3

Testing without password. Program ask user to insert password.

Figure 8: Without password

4.2.4 Test 4

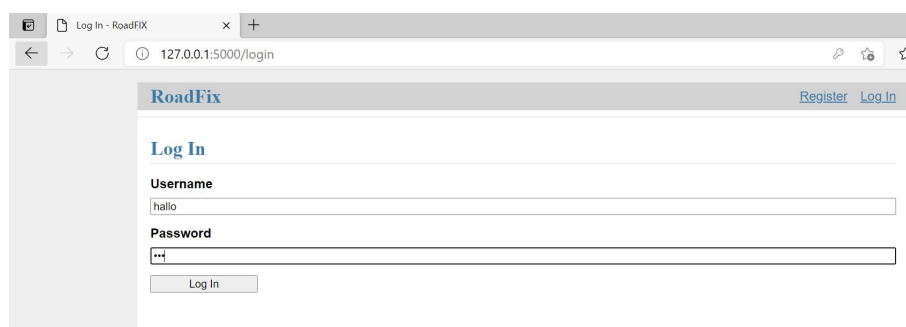Testing with correct username and wrong password. Program ask user to insert password.
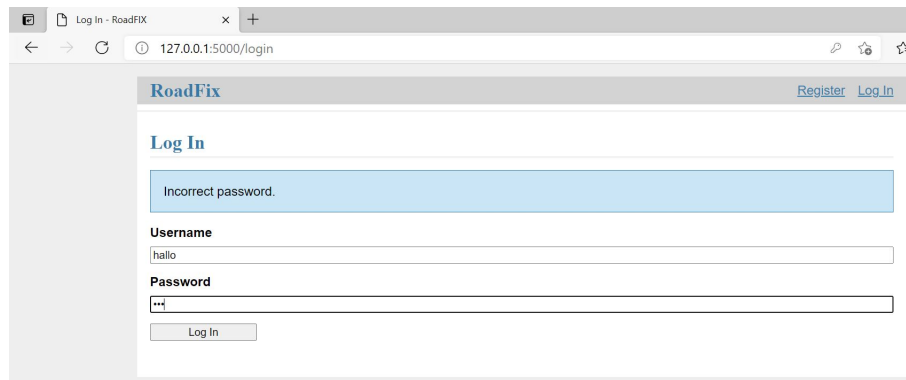

Figure 9: Correct username, wrong password

Figure 10: Redirected to login, wrong password

4.2.5   Test 5

Testing login with none registered user. Program redirects user to login and flash message: "Incorrect username".
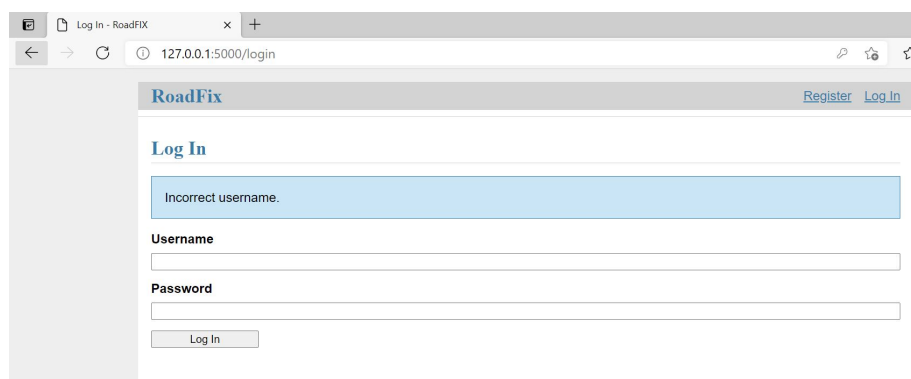

Figure 11: None registered user

Figure 12: Redirected to login with flashed message

4.3   Register damage

The rating of the damage needs to be a number from 1 to 10. If the user types in a characters or a number that is in the range from 1 to 10 the program needs to give out a message explaining the problem. This is just examples of how we could have tested "rate damage" page.

4.3.1   Test 1

Typing in "11" as the rating of the damage on the "rate damage" page.

4.3.2   Test 2

Typing in "adc" as the rating of the damage on the "rate damage" page.

4.3.3   Test 3

Typing in "5" as the rating of the damage on the "rate damage" page.

4.4   Edit damage

The test needed for this is the same as for "register damage".

4.4.1   Test 1

Typing in "11" as the rating of the damage on the "rate damage page".

4.4.2   Test 2

Typing in "adc" as the rating of the damage on the "rate damage page".

4.4.3   Test 3

Typing in "5" as the rating of the damage on the "rate damage page".

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5   requirements

Manual testing with the unit testing approach have been used for the testing section. It addresses possible actions from the user and the corresponding expectations from the program.

6   Test Environment and Tools

Application URL	Application Server	Database
http://127.0.0.1:5000 http://127.0.0.1:8000	WSGI	PostgreSQL

7   Appendix

8   Software used

- Overleaf as an editor for Latex

9   Effort

Both have used the same amount of work and have helped each other with all sections. There is no point to specify hours spent on each activity since our work overlaps.

- Paal Kjekstad: 3 hours

- Haakon Flaten: 3 hours

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