

GetYourCar Test Plan

GetYourCar Team uhhh:

V1.2 Project

06 October 2020, Shaahin Madani/ Supervisor

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I. Introduction

To ensure the success of the project of the 'Get Your Car' website, we need to ensure that its functions are working correctly. In order to guarantee this, testing will need to be performed on the code that we produce. This document will go over the testing plan that will be performed, as well as report the results of our testing. Testing is an important aspect of the project that will need to be completed often. Successful testing will ensure that the project is of a higher standard and is able to meet the requirements and expectation of the client. The team will be following this document's plans to ensure successful testing throughout the semester.

II. Test Plan

Unit Test ID	Test Name	Expected Results	Actual Results
1.1	test_hash_successful()	True	True
1.2	test_hash_fail()	False	False
1.3	test_valid_DOB()	True	True
1.4	test_invalid_DOB()	False	False
1.5	test_valid_lincense_date()	True	True
1.6	test_invalid_lincense_date()	False	False
1.7	test_validate_customer_credentials_success()	True	True
1.8	test_validate_customer_credentials_fail()	False	False
1.9	test_register_success()	True	True
1.10	test_register_fail()	False	False
1.11	test_login_success()	True	True
1.12	test_login_fail()	False	False
1.13	test_find_customer_address_coordinates()	Equal	Equal
4.1	test_validate_premium_expiry_success()	True	True
4.2	test_validate_premium_expiry_fail()	False	False
5.1	test_validate_booking_time_success()	True	True
5.2	test_validate_booking_time_fail()	False	False
12.1	test_car_registration_success()	True	True
12.2	test_car_registration_fail()	False	False
12.3	test_calculate_car_price()	Equal	Equal
13.1	test_calculate_total_booking_cost()	Equal	Equal
13.2	test_calculate_total_booking_time()	Equal	Equal
13.3	test_card_validation_success()	True	True
13.4	test_card_validation_fail()	False	False

How to run the unit tests:

1. Start your localhost server (XAMPP, MAMP, etc.)
2. Open a command prompt
3. Go into "<C:\..\..\PP1-uhhh-GetYourCar>"
4. Run the command "python dummy.py"
5. Run the command "python mainEngineTest.py"
6. If the result of step 5 is "All ok" then all test passed

Test Case ID	Test Descriptions	Expected Results	Actual Results
1.1	Test the Login Functionality for Customer	Success	Success
1.2	Test the Login Functionality for Customer	Success	Success
1.3	Test the Registration Functionality for Customer	Success	Success
1.4	Test the Registration Functionality for Customer	Success	Success
1.5	Test the Registration Functionality for Customer	Success	Success
1.6	Test the Registration Functionality for Customer	Success	Success
1.7	Test the Reset Password Functionality for Customer	Success	Success
1.8	Test the Reset Password Functionality for Customer	Success	Success
1.9	Test the Reset Password Functionality for Customer	Success	Success
2.1	Test the Logout Functionality for Customer	Success	Success
3.1	Test the search car Functionality for Customer	Success	Success
3.2	Test the search car Functionality for Customer	Success	Success
3.3	Test the search car Functionality for Customer	Success	Success
4.1	Test the Switch Price Plan for Customer	Success	Success
4.2	Test the Switch Price Plan for Customer	Success	Success
4.3	Test the Switch Price Plan for Customer	Success	Success
5.1	Test the Make Booking Functionality for Customer	Success	Success
5.2	Test the Make Booking Functionality for Customer	Success	Success
6.1	Test the Cancel Booking Functionality for Customer	Success	Success
9.1	Test the Login Functionality for Admin	Success	Success
9.2	Test the Login Functionality for Admin	Success	Success
10.1	Test View user list functionality for admin	Success	Success
11.1	Test view list of car registered functionality for admin	Success	Success
11.2	Test modify car information functionality for admin	Success	Success
13.1	Test the Payment Functionality for Customer	Success	Success
13.2	Test the Payment Functionality for Customer	Success	Success
15.1	Test the Cars near to me Functionality for Customer	Success	Success
16.1	Test the Complete Booking Functionality for Customer	Success	Success

How to run the test cases:

1. Make sure you have internet connection
2. Open <https://console.cloud.google.com/sql/instances/getyourcar/overview?project=get-your-car>
3. Click the import button
4. Click browse folder
5. Go to get-your-car-dummy and choose dummy.sql then press select
6. Choose SQL formatting
7. Select "Data" database
8. Click Import
9. Go to <https://get-your-car.ts.r.appspot.com/>
10. Run the test cases

III. Testing Deliverables

For the tests, we mostly designed it with different inputs and scenarios. For example, when customer registers, we have an age validation, email validation, and driver's license validation. So, we will make four tests where one will test what would be expected to happen if customer registered successfully, while the other three are tests for when the customer failed to register with different kind of inputs, either invalid email, age restriction, invalid driving license dates, or even all of them. The test cases and unit test inputs are based on the scenarios that we brainstormed back in week three, on what would the possible scenarios are for a user using the system.

IV. Environmental Requirements

1. Unit Test
 - a. Localhost Server (XAMPP, MAMP, etc.)
 - b. Python
 - c. Dummy Data
2. Test Case
 - a. Browser
 - b. Deployed version of the project (<https://get-your-car.ts.r.appspot.com/>)
 - c. Dummy Data

V. Staffing

Vincent and Yanfang are mostly responsible for creating the test case scenarios. All members are responsible with reviewing and performing each test case, though the creator of the test case cannot be the one who review it. Once the testing is complete, it is optional for member(s) to provide any feedback and necessary to share the results of the testing to the team during a meeting.

VI. Schedule

Tests are scheduled to be created once the implementations are completed and are expected to be completed by the 1st weekly meeting (every Thursday) after implementation. The test is recorded and updated accordingly.

VII. Document Revision History:

Version	1.1
Name(s)	Vincent and Jerald
Date	06/10/2020
Change Description	Fill in part 4, 5, 6

Version	1.2
Name(s)	Vincent, Jerald, Yanfang and Youxin
Date	29/10/2020
Change Description	Completed part 1, 2, 3, and 4, updated part 5, and reviewed all sections