**Norize Company**

**Website** [**Hillel Auto**](https://qauto2.forstudy.space/)

**Test Plan**

**Version 1.0**

**Story of changes**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Type of change** | **Author** |
| 11.10.2022 | 1.0 | Creation | Piskovskiy Bohdan. |
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**1. Introduction**

## Purpose

The purpose of this Test Plan is describe the process of testing the Hillel Auto website (full address https://qauto2.forstudy.space/). The document allows you to get an idea of the planned work on testing the project.

## Initial data

Hillel Auto is the website that allows the user to add cars to the garage, keep track of fuel costs, read manuals for different car models.

## Test Purpose

The purpose of testing the Hillel Auto website is verify the correct operation of all its functionality on different versions of browsers with typical scenarios for its use. Part of the time (approximately 20%) will be used to test atypical/potentially buggy use cases.

The outcome of the testing process will be the following materials:

* + - the conclusion of the testing team regarding the general condition, giving the developers and managers of this product a picture of the correctness of the site in various browsers;
    - a report on the results of testing the current coverage of typical use cases/browsers;
    - documented bugs in the customer's bug tracker.

Testing will be done manually, by the method of "informal" testing (ad-hoc testing) from the position of the end user of the application.

# Conditions for testing

The website must satisfy the user's need for activities related to adding cars, calculating fuel costs, correctly displaying instructions for different car models.

# Test Progress Strategy

The test plan below is a formality, as an understanding of the current state of the project is required to build a detailed plan. As a result of the first run of functional tests, changes and improvements will be made to the test plan. The first run of functional tests will give us a clear idea of the level of stability of the system and will clearly define the set of tests that will be performed in each configuration.

This approach will provide an opportunity to get a detailed report on the tested product and focus maximum attention on bottlenecks.

The customer will be provided with daily reports on the progress of testing, found defects, suggestions for improving the work of the product and its design. All detected defects will be entered in the form of separate tickets for subsequent correction in the customer's bug tracker.

During testing of the Hillel Auto website, ad-hoc testing will be applied due to the lack of a strict specification, as well as due to limited resources for formalizing tests.

Five stages of the testing process are planned:

* the first stage consists in the analysis of the terms of reference, drawing up a test plan, as well as a partial run of functional tests;
* the second stage will be devoted to a detailed run of functional tests with the identification and description of defects;
* the third stage will be cross-browser testing with a description of the defects found;
* the fourth stage is checking the bugs solved by the developers and conducting regression testing;
* the fifth stage consists in testing the product design with a description of the defects found.

Thus, the maximum specification of the depth of testing is achieved, which, in turn, allows you to more accurately determine the resources expended, and also allows project developers to fix defects at the earliest stages.

OS approved for verification:

* Windows 11

Browsers, approved for verification:

* Google Chrome Version 105.0.5195.127 (Official build), (64 bit)
* Opera Version 75.0.3969.171 (Official build), (64 bit)
* Mozilla Firefox Version 105.0.2 (Official build), (64 bit)

Security testing and stress testing are not carried out due to lack of time for testing.

## Types of testing

* + 1. *Functional testing*

### Purpose:

Identification of functional errors, inconsistencies in the technical specifications and user expectations by implementing standard as well as non-trivial test scenarios.

### Process description:

#### Registration/Authorization

* User registration
* User authorization
* Guest user
* Password recovery
* Edit account

#### Personal Area

* Editing profile
* Exit user from personal area

#### Garage

* Adding auto
* Presence of notifications
* Correct update mileage
* Correct update information about mileage, number of liters and total cost
* Editing model auto

#### Number of liters

* Выбор автомобиля
* Editing/Delete information about number of liters
* Editing information

#### Instructions

* Choice of make and model of car
* Downloading the car's operating manual

#### Settings

* Currency selection
* Correct selection of distance unit
* Create email
* Create password
* Ability to delete a profile
  + 1. *Cross browser testing*

### Purpose:

Check the correct operation and design of the project in different browsers

#### Browsers

* Google Chrome Version 105.0.5195.127 (Official build), (64 bit)
* Opera Version 75.0.3969.171 (Official build), (64 bit)
* Mozilla Firefox Version 105.0.2 (Official build), (64 bit)
  + 1. *Regression testing and verification of resolved defects*

### Purpose:

Checking the changes made on the site in order to make sure that the new version of the program does not contain errors in the already tested sections of the site.

During regression testing, the following types of tests will be carried out:

* Verification tests
* Version testing
  + 1. *Test design*

### Purpose:

Checking product design against specification mockups

### Process description:

* + - * Registration form
      * Letter to the user
      * Personal area
      * Site pages

# Work Plan

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Size work** | **Date start** | **Date end** |
| Making a test plan | 10 hours | 11.10.2022 | 12.10.2022 |
| Performing testing | 8 hours | 12.10.2022 | 13.10.2022 |
| Test Analysis | 48 hours | 13.10.2022 | 17.10.2022 |
| Summing-up | 66 hours | 11.10.2022 | 17.10.2022 |

**5. Risks**

* 1. **Possible risks in testing**
* incorrect assessment of labor costs;
* change of requirements on the part of the customer in the course of implementation;
* dismissal/redistribution of people;
* low productivity;
* inconsistency release plan.

1. **Final results**

## Results

The end result of testing should be a decorated end result of the testing process with described defects, as well as recommendations for improving the product from the point of view of the end user.