**MagneticOne**

**Test Plan**

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**Automation Strategy**

**Purpose**

The purpose of the given Test Plan is the testing description of a website **Yaware Time Tracker** (<https://yaware.com/>). The document helps to get a better understanding about the scheduled work of testing project.

Automated tests will be developed based on the requirements provided and executed to verify the functionality. Tests can be triggered manually as well as run automatically based on certain schedule.

**Scope**

The goal of testing the website is the thorough verification of all the features in different browsers, their versions with the typical scripts of it`s usage. Some time will be spent testing the negative scenarios which are also able to uncover some bugs.

The final results of the testing process will be the following documents:

* The report about the testing results;
* Documented bugs in the client`s bug tracking system.

The testing will be manual with the help of the Black Box testing.

**Defect Management**

Jira will be used to reporting and tracking bugs and defects found by the automated tests. The procedure for reporting, verifying and prioritizing defects will be decided by Product Manager. Details that will be decided for the following processes:

o Tools used for defect tracking

o Reporting and verifying defects

o Defining and assigning priority and severity

o Fixing the reported defects

o Retesting and closing opened defects

**There are five stages of testing are planned:**

* The first stage – analysis, Test Plan creation, partial execution of some functional tests;
* The second stage will be devoted to the detailed execution of functional tests uncovering and describing the bugs;
* The third stage – Cross Browser testing with uncovering and describing the bugs;
* The forth stage is fixed bugs check and Regression testing execution;
* the fifth stage is User Interface testing with uncovering and description the bugs.

Such kind of testing system allows fulfilling detailed testing and preventing fixing bugs on early stages.

**TYPES OF TESTS**

Automated testing focuses only on functional, smoke, and regression testing of the application. Tests will be integrated with the existing CI environment of the **Yaware Time Tracker** web application.

Automated tests are quite flexible and can be used to carry out several types of testing. However, Selenium tests are primarily used to do certain types of functional testing. All types of tests will be developed based on the same framework and generate same type of reports.

**FUNCTIONAL TESTS**

Automated testing will primarily focus on the functional testing of the **Yaware Time Tracker** web application. Tests will be executed in the different test environments. Functional tests verify functionality of a specific feature based on the requirements for that feature. Functional tests will be carried out by testing the User Interface, the back-end of Yaware Time Tracker web application. For automated functional tests, priority will be given to tests cases that bring most business value.

**SMOKE TESTS**

Smoke tests will be developed and executed periodically. Smoke testing will be used to identify the general stability of the application. Testing scenarios for the smoke test will be approved by the Project Manager or Product Owner. Smoke tests can run against multiple environments.

Smoke tests will be integrated to the CI environment and can be executed based on a schedule as well as be triggered after every deployment.

**REGRESSION TESTS**

The main purpose: to check the changes which were made in the website in order to make sure that there are no bugs in the new version in the parts where testing had already been made.

**Final Results:**

The final result is a documented final result of testing process with the bug descriptions and also with some recommendations and suggestions for further improvement of the given product from the user's point of view.