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2DV610 – Software Testing

Strategey

1. Introduction

In this documentation, the strategy is based on the software company. The purpose of this software company is to allocate a web server on a wide range of internet of things to describe information from sensors and so on. What I mean by this is that this software company is aiming to take advantage of a server known as “My Web Server” which can be deployed on numerous kinds of devices. Consequently, it will attract more Internet of things (IoT) developers.

2. Stakeholders

- **IOT developers**

The responsibility of generating, implementing all essential features. Also, they will mainly focus on the manufacturing of software which will enable the products to work and be able to connect to other devices.

- **SDC developers**

A software developer must examine what the user wants then they must design, test, and manufacture software that fulfills their requirements.

- **SDC management**

A software development manager has the responsibility of supervising and organizing the staff, resources. However, it will be more likely that a software manager will work on a project in a smaller firm.

- **End-user customer**

An end-user is known as a person who makes use of a product. Also, End-user will use the product after it has been fully developed based on the user experience.

3. What Means do we have?

The web server tests have been implemented by the Java programming language. Therefore, for testing the results, the IntelliJ IDEA will be used. For checking the tests, IntelliJ will be used on the Windows 10 operating system and Mac OS. Moreover, the Apache JMeter 5.3 and Curl 7.74.0 will be used as well. Regarding the testing, the Junit 4.12 will be used along with Mockito 1.9.5.

4. What are the testing goals?

- **The software development company is aiming to redistributes My Web Server on a wide range of Internet of Things (IoT).**
- **The software development company is seeking an easy-going web server that has been formatted using java to be used on many kinds of devices. Consequently, it can get the attention of IoT developers.**

- **Regarding the IoT developers, they are looking for a minimal configuration along with the comfortable integration and edition of the webserver.**

- **When it comes to the web server, it should correspond to the customers' needs which were mainly about being easy to access it and it should be secure.**

5. How do we reach our testing goals with our means?

To achieve the testing goals that were mentioned above, the checking process needs to ensure that all the tests will be carried out for making sure that the My Web Server is following the HTTTP 1.1 minimum requirements. Moreover, it should be proven that the webserver is reliable under too much pressure. The web server is supposed to work on a different operating system such as mac, windows, etc.

However, this stage will be done only on the windows since having access to other operating systems is not available. Also, the webserver should correspond to the GPL -2.0.

6. Specify the budget:

- **Time**

  Since two people are working on this project, a minimum of 40 hours will be allocated. That is 2*20.

- **People**

Tester 1

Tester 2

- **Equipment**

Windows 10, Mac OS, IntelliJ, Junit 4.12, Apache JMeter 5.3, Mockito 1.9.5, Curl 7.74, Safari 5.1.7, and Mozilla Firefox 83.0.

- **Resources**

As I have already mentioned, since two people are working on the project, a total of 40 hours will be dedicated. However, 40 hours is the minimum so in case of necessity more time will be spending on it.

7. Deliverables:

- **Strategey.pdf**
- **TestPlan.pdf**
- **testCases.pdf**
- **testReport.pdf**

8. Overall Project Schedule:

- **Assignment 2 part 1: 11/12/2020**
- **Assignment 2 part 2: 18/12/2020**
- **Assignment 2 part 3: 12/01/2021**