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| **SOUTHERN CROSS UNIVERSITY** |

**ASSIGNMENT COVER SHEET**

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Please complete all of the following details and then make this sheet the **first page of each file of your assignment – do not send it as a separate document.**

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| Student Name: | **Rajpreet Kaur** |
| Student ID No.: | **23261958** |
| Unit Name: | **Managing Software Development** |
| Unit Code: | **CMP73010** |
| Tutor’s name: | **Ben Scott** |
| Assignment No.: | **Assignment 1** |
| Assignment Title: | **Report** |
| Due date: | **26-08-2020** |
| Date submitted: | **26-08-2020** |

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| --- | --- |
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| Date: | 26-08-2020 |

End

**Report title**

Student Name: Rajpreet kaur

Student ID: 23261958

Report Title: Testing and Configuration Management

Unit Name: Managing Software Development

Unit Code: CMP73010

Submission date: 26-08-2020

**Abstract**

This report analysis the acceptance and black-box testing , Configuration management and Request for proposal. Acceptance and black-box testing have different scenarios to check the expected outcome is appropriate.Configuration management works on Git and the feature of nightly build Mozilla Firefox. RFP is important for every business and I write a RFP for Spearhead Technology Services.Testing helps to find any bugs in system and check that the way system is used. Everyone use Nightly build system so I defined all the benefits and limitations, history of Firefox. RFP is defined in well formed structure and define all the requirements for the Spearhead Technology Services.

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**Introduction**

Acceptance testing aim is to see if the system meets the requirement which was agreed between developers and the users.While black box testing goal is to find bugs and developers mistakes in programming. Request for proposals give information to organisation to accept various solutions to conceptual design.Moreover,Git hub account is mentioned and nightly build feature is also described in the report.

**Part 1 - Testing**

1.1 Acceptance test

| **Scenario** | **Expected Results** |
| --- | --- |
| User Password | Password is an easy way to keep account privacy. If the user feels that someone maybe holding their account, just change your password. |
| Verification Code | Users will receive a code while booking. To start the ride user needs to tell the code to the driver for confirmation. |
| User can call driver through the Uber app | If the driver has any issue related to location, the user can call the driver through the Uber app. |
| Driver identity and car identify | User can verify the driver with his/her name and profile picture  and a car with a number plate. |
| Live location | User can check the live location of driver |
| Emergency contact | Emergency contact is available if anything went wrong contact through emergency contact. |

1.2 The detailed black-box test plan

| Widgets | Tests | Expected Results |
| --- | --- | --- |
| Printer properties | Check printer properties is displayed | Printer properties |
| Copies | 1. Check if it’s printing 1 page copy 2. Check if it’s printing multiple pages copy 3. Check if it’s printing selected copy page | 1. 1 copied page printed 2. Copied Multiple page printed 3. Selected copied page printed |
| Printer | Check if it is printing to required type(pdf, word file) | Printer required type pdf |
| Color | 1. Check if printing with one color 2. Check if printing with multiple color 3. Check if printing page black and white | 1. Printed with one color 2. Printed with multiple color 3. Printed black and white |
| Print slides | 1. Check if its printing selected slides 2. Check if its printing all slides together   3.Check if its printing specific slides | 1. Printed selected slides 2. Printed all slides together 3. Printed specific slides |
| Page type | Check if its printing required page type of page | printed required type of page |
| Collated or uncollated | 1. Check if its printing as collated 2. Check if its printing as uncollated | 1. Printed as collated  2. Printed as uncollated |

**Part 2 - Configuration management**

2.1 Code version management

GitHub name: 23261958

Git passward: rajpreet05,

Simply go to [github.com](http://github.com) and after completing this assignment upload on GitHub

2.2 Build Management

1. Nightly is a development and an unbalanced testing platform for the Firefox browser. Mozilla developers write code that is converted into a simple code repository and consistently that code is compiled to make a pre-release version of Firefox based on code for testing purposes, this is called a Nightly build. When this code develops, it is converted into stable repositories (Beta and Dev Edition) where that code will be checked until we reach a quality level that allows us to send a new final version of Firefox to millions of people. Nightly sends information to Mozilla and sometimes their partners assist them handle any issues and evaluate thoughts.

This development procedure used to send a new version of Firefox every 4 weeks. Nightly always update twice a day and its update is downloaded in the background. When you restart you're nightly its update will be applied. Nightly sends by defaults anonymized use statics which helps Mozilla developers to get use of static on the feature they are working (Mozilla , 2020).

2. The Firefox origin can be traced directly to a compan­y named Netscape whose Web browser (Netscape Navigator ) was the prevailing browser before Internet Explorer. The inside organisation name for the browser was Mozilla. In last, the source code for Navigator was released by Netscape under an open-source permit, which means that anybody could see and utilise the code. To direct the development of browsers a non -profit group was set up and then in 2003, this group became the Mozilla Foundation.

In Mozilla software more and more features were added but an issue in software development was seemed Known as "feature creep" or "bloat". Blake Ross first joined the Mozilla group to help out on issues in software but Rather than focusing on feature creep he decided to develop his Mozilla-based browser. Ben Goodger, joined Ross in 2003, and the development progressed quickly. At the start, the browser was known as Phoenix that would be known as Firefox. There were trademark issues, so the name was changed from Phoenix to Firebird. Another company had a project with Firebird name so then in last the name changed to Firefox.

When Firefox was still in the beta stage (when people can download it and use to fix issues but not released publicly) it was generating a solid buzz among well-informed Web surfers. After officially released on 9.11.2004 an expected 23 million people download Firefox in 4 months. On 22.11.2004 Web tracker reported that Internet Explorer's share of Web browser use had decreased five percent since May of 2004 ( Strickland and Grabianowski, 2020).

3. Using nightly ensures that the browser can catch the problem within 24 hours or less before you deliver the software but the problem of using nightly is that it forces the team to create an automated script.

**Part 3 - Request for proposal (RFP)**

Spearhead Technology Services

Request for proposals

(Rouse Margaret,2020)

Background Information

Spearhead Technology Services is a business that sells a variety of Internet of Things (IoT) products.IoT devices refer to physical devices connected to internet wirelessly and transmit data.Repair and accessories also provided in IoT devices.IOT devices examples are smart toaster, laptop, mobile, smart refrigerators etc.

Introduction

Spearhead Technology services have a business of IoT products and we want a vendor who will support to build an integrated system for six branch shops as the chance arises. It is assumed that this system need more time to set up on various locations.Moreover, vendor have to complete all the requirement of system and service.It is expected that the system will start in November,2020 and should be finished in 8 months.

Project Requirements

* Customer Relational database is based on an intuitive, relational model and a clear method of showing data in table. Information like the service and products purchased, repairing devices, customer details with their history , work details and problem report as well.Relational databases are utilised to process ecommerce transactions, track inventories and oversee huge amounts of mission-critical customer information. A relational database can be considered for any data need in which information focuses identify with one another and must be overseen in a protected, rules-based, steady way (Oracle,2020).
* Marketing System : Digital marketing is a targeted customer can be reached in a cost-effective and measurable method.There are many benefits of digital marketing like improved conversion rates, tracking order, brand loyalty , online sales and many more.Using the email and social media platform it is easy to find about customer. A employee or a customer can only do digital marketing or purchases if he/she familiar with technology and internet.( Storm Macy ,2020)
* Stock management system: The purpose of stock management software aim is to keep an ideal stock level, track goods during transport between different areas , get new items, oversee warehouse procedure for example picking, pressing, and transportation, stop product out of date quality and decay, and guarantee your items are never unavailable.

The way in to a productive and beneficial business is complete visibility into the stock procedure from beginning to end and the management devices to assist you with keeping up ideal stock levels all year. A successful management system framework helps you smooth out all the moving pieces of your warehouse: From suggesting ideal stock levels right to keeping your flexibly chain sorted out and running easily.

So, the Spearhead Technology Services require a stock management system that includes items available to be purchased, parts for use in fixes, automatic ordering from wholesalers. The system must be able to be used for seperate areas to find items and parts at other Spearhead Technology Services locations when important. As the company represents considerable authority in IoT products the SMS should have the option to have constant observing and diagnostics some IoT products(for example urban areas items).

* Report for management

Management Report really important for business so owner can easily see the business performance on budget, cash flow, wages, and profitability. So, system wants the report on stock detail(because if its not enough they can order it) and recruit staff.

Selection Criteria

When , all proposals received in response to this offer will be assessed according to these following measures . The assessment will be of the Vendor and any subcontractor the Vendor proposes to use to show out any of the expectations to be given under the agreement that outcomes from this RFP. An agreement will be granted to the seller whose proposal is resolved to be the most worthwhile to Enterprise considering cost and the assessment of the proposal

using the unranked measures described beneath:

A. Seller's Qualifications;

B. Seller's experience performing work of same field

C. Seller's ability and duty to convey service within the limited time periods

D. Cost.

E. Award lists

F. Client details.

Submission Information

Vendor proposal must be submitted online by 20th October, 2020 as the subject going to:

[rajpreetgill2001@gmail.com](mailto:rajpreetgill2001@gmail.com).

All email received by 20th of September 2020. The emails sent from vendor after this date will not be considered.

Spearhead Technology services

rajpreetgill2001@gmail.com.

Candidates will be informed in first week of October, 2020.

The selected Vendor for this service will be required to sign an agreement with Enterprise by 15th of October , 2020 .Eventually, Enterprise will finish the agreement and submit it to the effective Vendor for signature.

**CONCLUSION**

In conclusion, I defined the acceptance and black-box testing, GIT, Configuration management, and Request for proposal. It was very interesting to work on these topics and came to know new interesting facts about the acceptance and black-box testing, GIT, Configuration management, and Request for proposal. Both testing works to find the bugs in the system in different ways. Moreover, I defined about nightly build system which updates the browser in twice a week. Last but not the least, I used RFP for Spearhead Technology Services to find a vender.

**Reference**:

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**Appendix**

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| --- | --- |
| Acceptance Test | Acceptance testing aim is to see if the system meets the requirement which was agreed between developers and the users |
| Black-box testing | black box testing goal is to find bugs and developers mistakes in programming. |
| RFP | Request for proposals give information to organisation to accept various solutions to conceptual design. |