**ASSIGNMENT COVER SHEET**

For use with online submission of assignments

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.**

Your assignments must be submitted as either **Word documents, text documents with .rtf extension or as .pdf documents**. If you wish tosubmit in any other file format please discuss this with your lecturer well before theassignment submission date.

|  |  |
| --- | --- |
| Student Name: | **Cornelius Deasi Jnr,** |
| Student ID No.: | **24007425** |
| Unit Name: | Managing Software Development |
| Unit Code: | ISYS3001 |
| Tutor’s name: | **Mr. Jobin Scaria** |
| Assignment No.: | Assessment 2 |
| Assignment Title: | Practical Skills |
| Due date: | 22 September 2023 11:59 PM (AEST) |
| Date submitted: | 19 September 2023 |

Declaration:

*I have read and understand the Rules Relating to Awards (*[*Rule 3 Section 18 – Academic Misconduct Including Plagiarism*](http://policies.scu.edu.au/view.current.php?id=00140#s18)*) as contained in the SCU Policy Library.   
I understand the penalties that apply for plagiarism and agree to be bound by these rules. The work I am submitting electronically is entirely my own work.*

|  |  |
| --- | --- |
| Signed: | Cornelius Deasi Jnr, |
| (please type your name) |  |
| Date: | 19 September 2023 |

**ISYS3001 – Assignment 1 exercise**

Remember that this is a public repository - your changes could be seen by anyone who looks!

Add some comments about Version management outside this border, or just add some text so there is a change to this file.

Remember that your GitHub user ID must be submitted in your assignment report!

Once you’ve changed follow the next step in your assignment task.

GitHub Account Name: CorneliusJDeasi

## Version Management

Version Management deals with managing files of any type or size, including archiving them, logging changes, restoring older file versions and coordinating access. It is about managing many components such as code files, configuration files, data files, documentation, media items or any digital items that is required to build a system.

## Build Management

1. **Brief description of nightly build system of Mozilla Firefox**

According to Mozilla Wiki (17 May 2023), Nightly Build is a repository where Mozilla developers write code and commit to it on a daily basis where it is compiled to create a pre-release version of Firefox which is used for testing purposes. It is then merged into the Beta stabilisation repository, upon final tests to check if it is quality it is then shipped to hundreds of millions of people. This is a perfect way for users to manage the changes on software where quality checks are done accordingly before version is released to the public.

1. **Release of Firefox to public**

Mozilla Firefox developers follow a specific way to arrive at a release of Firefox. As per Wiki (2022), the standard release interval for Firefox is four weeks, which means that every four weeks there is a new version of Firefox release where they follow a schedule driven process, to allow the releases to take place at regular intervals. This releases progress on regardless whether a feature is ready or not, the main goal of this is to provide regular improvements to users without disrupting their work.

There are 4 channels that the developers commit their codes too, they are Mozilla Central (nightly), Mozilla Aurora, Mozilla Beta and Firefox (release). The Mozilla Nightly gets new features added as soon as they are ready but are low in stability meaning that there is a possibility for them to fail in the event when they are executed. The Mozilla Aurora gets new features at regular intervals but some might be disabled as more work needs to be done on them. The Mozilla Beta channel only receives new features that are of quality sound which is then forwarded to the Mozilla Firefox Release (Mozilla GitHub.).

1. **Advantage vs Disadvantage of Firefox**

Advantages

* Speed – Reported to be the fastest browser when downloading files with the downloads in the form of tables for ease of movement (EasyTechJunkie, 2003 - 2023)
* Security – Advanced security measures that protects computers from viruses, malwares and hackers (EasyTechJunkie, 2003 - 2023)
* Tabbed Browsing with advanced features – Allows users to open multiple tabs on a single window which helps in organising browsing. Also has embedded memory which allows tabs to be restored if the computer unexpectedly shuts down or closes (EasyTechJunkie, 2003 - 2023)

Disadvantages

* Compatibility Issues – Some websites may not be able to render properly, thus needing the help of Internet Explorer (IE) (EasyTechJunkie, 2003 - 2023)
* Memory – Consumes a lot of memory which lead to the browser crashing, also tends to freeze and close when too many tabs are opened (EasyTechJunkie, 2003 - 2023)
* Interrupted Service – Downloads can’t be resumed when they unexpectedly crash. The browser was built and designed for users who have access to DSL with fast access to internet instead of dial up connection (EasyTechJunkie, 2003 - 2023)

## Request for Proposal (RFP)

The company sending the Request for Proposal (RFP) is called Aussie Business Buzz (ABB) they sell a variety of technology products such as computers, laptops, phones, routers and various other technology devices. They also provide device repairs and mobile accessories.

**Introduction**

The business of Aussie Business Buzz is looking to incorporate an integrated system in their 4 locations (Brisbane, Townsville, Sydney, and Melbourne). Budgets for this proposed project will need to be drafted as well as a timeframe of when the project will start and finish and various other requirements needed.

**History**

* The company is called Aussie Business Buzz (ABB)
* The company sells and repairs various technology devices such as computers, laptops, mobile phones and other devices
* The company has four different locations within the country (Brisbane, Townsville, Sydney, and Melbourne).

**Requirements**

The services that’s required by ABB are:

1. Customer Relations Database Service
   1. A centralised database for ABB’s products and services with details of customers and their devices that have either been bought or repaired for ease of access (details such as customer details, customer purchase history
2. Marketing System Service
   1. The service will help the business in growing their marketing areas by means of using email, social media. This service will coincide with the customer database in means of marketing plans and advertising
3. Stock Management System Service
   1. This service will help the business in managing their stock inventory items by means of products of sale, parts for use on repairs as well as automatic ordering from suppliers when stock is low. The system should also be able to find product parts of devices at different locations of the business when necessary
4. Reports Service
   1. This service should be able to assist the management of the business to do their work on the go, by means of ordering stock, recruiting staff and other management decisions.

**Evaluation of proposal**

In order for ABB to proceed with making a final decision on the needs for the new integrated system service, they need to evaluate the interested vendors who are bidding for this job. With this request the vendor must meet certain requirements first as per list below

* The vendor must submit previous documents of completed jobs
* The vendor must be able to stick to the proposed timeframe and budget of the project
* The vendor must work accordingly to the site instructions given
* The vendor must provide copy of ID’s for the chosen team members who are undertaking the project
* The vendor must adhere to the rules and regulations of the company
* The vendor must have a technician on standby if and when the system has an unexpected outage
* The vendor must sign over the rights of the system to the company (ABB) once the project is completed so payment can be made accordingly

**Target Audience**

The proposed target audience for ABB business is the customers who wishes to purchase/ repairtheir technological devices (i.e. mobile phones, computers, tablets, desktop PC etc.). They are the crucial people involved in ensuring that the business is making money. They can also provide feedback and recommendations to the business which can be used to improve the business. The customers should be happy with the final product whether it be new purchase or a repair purchase, in that way they keep coming back.

**Primary Goals of proposed project**

The primary goals for the new integrated system are as per below list which will have to be completed by the supplier / vendor

* Installation of new and up to date hardware (i.e. computers, mobile phones, landline connections)
* Installation of up to date antivirus protection software
* Privacy protection of customer details in database
* Marketing information be made aware to customers
* Correct information and data being reported to managers

**Budget**

The proposed budget of the new integrated system is estimated to be around $100,000.00 depending on the hardware and software available from the proposed supplier/vendor as well as other factors involved such as their rates for the equipment and labour hires used and the overhead costs incurred.

**Timeframe**

The proposed timeframe for selecting the potential supplier/ vendor who will take charge of this project of installing a new integrated system for ABB will take roughly a week (5 days) to decide the best contender with the project estimating to be a month long for them to get everything installed, tested and commissioned. Below is a schedule of selecting the best supplier / vendor for the project.

|  |  |  |
| --- | --- | --- |
| Monday, 25 September - Tuesday, 26 September | 2 days | * Meet with potential suppliers / vendors * Present the proposal to the suppliers / vendors noting down what is required for the proposed project |
| Wednesday, 27 September - Thursday, 28 September | 2 days | * Evaluate the potential suppliers / vendors based on certain criteria’s (i.e. company history, development plans, list of tasks, pricings with quotations etc.) * Interview team members of the vendors * Give the team members questionnaires to answer |
| Friday, 29 September | 1 day | * Select the vendor who will take care of the project. * Go through all the agreements with the selected supplier / vendor * Sign the contract and present the cheque payment to the supplier / vendor (60% upfront payment and 40% to be paid once job is completed). |

**Vendor’s Details**

The vendor must submit their company details as per below lists

* Company name
* TIN Number
* Contact information
* Company history
* Development plan
* Previous projects completed
* List of tasks
* Technical requirements
* Submission of tender with quotation and pricings

**References**

EasyTechJunkie (2003-2023) *What are the Pros and Cons of Firefox?* <https://www.easytechjunkie.com/what-are-the-pros-and-cons-of-firefox.htm>

Mozilla GitHub (nd) *Mozilla Firefox: Development Process* <https://mozilla.github.io/process-releases/draft/development_overview/#:~:text=Larger%20features%20and%20projects%20are,%2C%20and%20Firefox%20(release)>.

Mozilla Wiki (17 May 2023) *Nightly* <https://wiki.mozilla.org/Nightly>