**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.

1. **Version Management**

Version management, also known as version control or revision control, is a system and set of practices that allows individuals or teams to manage changes to documents, code, or any other type of files or data over time. The primary goal of version management is to track and control the evolution of these files, making it easier to collaborate, maintain, and recover previous states of the data. This is particularly in software development, document collaboration, and other areas where multiple people on the same set of files.

GitHub AccountName: aaro10

1. **Nightly Build Management Systems**

The nightly build system is a software development concept that can be considered as the testing area of the software where the current build is modified based on the bug or errors found by test users.

Based on Wiki (2022), nightly builds are codes written daily by Mozilla developers merged in a shared repository. A pre-release version of the open-source browser is created when the code is combined. It is the perfect way to manage changes to the Firefox software and systems where test users can identify bugs that can be resolved to reduce the chances of end-users experiencing error in the final build.

1. **Firefox Release Process**

Mozilla developers have a specific process to arrive at the final release of Firefox to the public. The process is delivered in 4 channels to which the developers send the source code. They are four processes involved in processing and releasing of Firefox:

1. Mozilla-Central
2. Experimental
3. Beta
4. Firefox

(Limi et al., 2014)

Mozilla-Central Channel (Nightly) the initial source codes that contain new features that are unstable and can potentially fail. Mozilla-Aurora Channel (Experimental) is the second stage where functional features are sent. The features that need more work are rescheduled to be sent later to another Mozilla-Central Channel. Mozilla-Beta Channel (Beta) is the channel that prepares the features to be pushed to the Mozilla-Firefox Channel whenever a new release is scheduled. (Limi et al., 2014).

The release process scheduled itself in a very timely and continuous allowing the new features and the ones disabled to be more developed in the first channel, making it easier for the other channels to concentrate on finalizing the new features for the release.

1. **Advantages and Disadvantages of Firefox**

**Advantages**

* It is a faster browser on Windows and MAC operating systems that Microsoft Edge from Microsoft Cooperation, Safari from Apple, and Opera from Opera software. Based on its speed, as a mobile browser, it turns out the Chrome, Opera, and Safari are somehow slower compared to Firefox. (Kristy Simon, 2021)
* Built-In Security features to protect its users from pop-up advertisements and websites that can contain malicious threats. It can also automatically detect and warn users of legitimate but unsecure sites that they are browsing and prompts and installs newer versions keeping the browser up to date. (Kristy Simon, 2021)
* Mozilla has a higher privacy control rate that the user can customize, and it was developed with no interest in collecting data which benefits its speed and performance. (Kristy Simon, 2021)
* The unlimited availability of allowing multiple add-ons enhances the user experience and makes it easier to satisfy the needs of its users. All its functions are easy enough to understand. (Kristy Simon, 2021)

**Disadvantages**

* Mozilla Firefox uses a lot of processing memory on the device that’s using it. When multiple tabs are open usually uses a considerable amount to maintain a stable speed and performance. (Kristy Simon, 2021)
* Even though Firefox may outperform every previously mentioned browser, Google Chrome is still the most reliable and efficient browser. (Kristy Simon, 2021)
* Firefox has been overly concerned with the lack of future support from developers whose interest lay with Chrome’s expansion of services, other concern like Microsoft and Apple creating devices with the advantage of having their browser’s preinstalled, and the Mozilla foundation is also struggling financially. (Kristy Simon, 2021)

**QUESTION 5 – Request for Proposal**

**5.1 Introduction**

* The title of the RFP can be called; “Request for Proposal for integrated system service”.
* The company requires the service of developers that can create four different services in an integrated system that can be used in all branches.
* Proposed budgets, timeframe, and requirements will be found within the proposal.
* Contact details will be made if vendors need answers or suggestions.

**5.2 Background**

* The company name is; “Aussie Business Buzz (ABB)”
* Branches are located in Australia’s four (4) main cities: Brisbane, Sydney, Melbourne and Canberra.
* ABB’s business comprises of selling and repairing various technology devices (Desktops, Laptops, Phones, Routers, e.g.) and the accessories that come with them.
* ABB is a new business, and with this proposed system, ABB will be able to expand to more locations in Australia.

**5.3 Contact Details**

|  |  |
| --- | --- |
| **Name** | Albus Aro |
| **Mobile Number** | (+675) 71591765 |
| **Email** | [albusaro92@gmail.com](mailto:albusaro92@gmail.com) |
| **Position** | Student |
| **Address** | 5053, Boroko 111, Port Moresby |

**5.4 Description of work**

The four services that ABB requires in the integrated system will be discussed through out the RFP. The developer ABB seeks will be responsible for the development, implementation, testing, support and maintenance. When the system requires an upgrade, the developer will also be responsible for that process.

The services that ABB require are as follows:

1. **Customer Relations Database Service (CRD)**

* This service should include information about ABB’s products and services and details of customers with items left for repairs.

1. **Marketing System Service (MSS)**

* This service will help expand the modern marketing reach by using digital platforms like emails, social media, the ABB website, etc. It should work collaboratively with the CRD service as well to advertise.

1. **Stock Management System Service (SMS)**

* This service should be able to keep track of all items in storage, like devices to be sold, parts available for repairs, and accessories. They should be about to search other branches when they need to.

1. **Report Generating Services (RGS)**

* This service must be able to create reports based on the first three services mentioned. They are reports that are requested by higher management levels in ABB.

Deadline:

* The deadline for a response to the proposal should be three [3] working days after receiving the RFP.
* The deadline for a Qand A would be five working days after responding to the proposal of receiving the RFP.
* The deadline for the decision would be two [2] weeks after the Q and A.

**5.5 Criteria for Decision Making**

The vendor must meet the criteria below, if they are to be chosen to develop the Integrated Systems.

* ABB must be able to have named and own the right to the system
* Provide proof of Qualifications of the full project team
* Able to understand the scope of work
* Make suggestions for improvements
* Provide samples of previous objects
* Willing to perform work within the given time frame and budget
* Provide three references from previous jobs
* The vendor must be available during regular working hours of ABBs
* The vendor must assign one team member involved in a different project area to be available hours.

**5.6 Target Market**

The targeted market ABB wants to target should be regular customers because they’ll be able to give feedback that can be used to make improvements to satisfy their needs. Also, its stake holders must be happy with the finished product so they can support expansions and upgrades when needed.

**5.7 Schedule**

|  |  |
| --- | --- |
| Release of RFP | July 10,2023 |
| Questions and Answers | July 20,2023 |
| Decision of Vendor | July 30,2023 |
| The vendor must meet the criteria | August 31,2023 |
| Adjust to proposals between vendor and ABB | September 10,2023 |
| Negotiations of budget and timeframe | September 20,2023 |
| Finalizations | October 31 |

**5.8 Budget**

The overall budget should be around $60,000, which includes average hourly rate, Q and As, changes made during the development stages, creation of media to post on the marketing platforms till the expected end of the project.

Should additional work be required that’s not in the scope of work, the budget should be readjusted to fit the original budget.

Also, upgrade done later on will be a separate cost that the vendor should price.

5.8 Vendor Information

The vendor should be able to provide general information and technical information as well.

* Vendor’s name
* Ownership and employee structure
* Business registration documentation
* Details for the point of contact for the company
* Brief information about the department structure and its team members.
* Detailed evidence of past projects
* Brief history and goals about the business and its owners.
* Reference from other jobs done

**5.9 finalising Deal**

After all content for the system has been developed and is up and running. The vendor must sign a legal document which should state that any material created and used during the development of the system, ABB must be the sole owner of everything.

References

1. <https://developer.mozilla.org/en-US/docs/Mozilla/Firefox/Developer_Edition/Nightly_builds>
2. <https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Sources/Introduction>
3. <https://developer.mozilla.org/en-US/docs/Mozilla/Firefox/Development>
4. <https://www.mozilla.org/en-US/firefox/>