**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 control, often known as version management, revision control, or some other variation, is a system and set of procedures that enables individuals or teams to manage changes to documents, code, or other types of files or data across time. Tracking and managing these files' evolution is the major objective of version management, which also makes it simpler to maintain, collaborate on, and recover earlier versions of the data. This is especially true in fields like software development, document collaboration, and others where numerous individuals work together on the same set of files.

GitHub AccountName: aaro10

1. **Nightly Build Management Systems**

The nightly build system is a notion in software development that can be compared to the product's testing environment, where the current build is changed in response to bugs or mistakes discovered by test users.

Nightly builds are daily coding contributions by Mozilla developers that are combined in a shared repository, according to Wiki (2022). The code is integrated to produce a beta version of the open-source browser. Test users can find flaws that can be fixed to lower the likelihood that end users will encounter errors in the final release, making it the ideal method for managing changes to the Firefox software and systems.

1. **Firefox Release Process**

When creating Firefox, Mozilla developers follow a certain procedure before making it available to the general public. The developers provide the source code to 4 channels where the process is delivered. There are four procedures that go into the preparation and release of Firefox: **(Limi et al., 2014)**

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

The first source codes for new features that are unstable and potentially unstable are available on the Mozilla-Central Channel (Nightly). The second step is where operational features are sent, and it is called Mozilla-Aurora Channel (Experimental). The features that require additional work are rescheduled to be forwarded to a different Mozilla-Central Channel at a later time. When a new release is planned, the Mozilla-Beta Channel (Beta) is the channel that gets the features ready to be sent to the Mozilla-Firefox Channel. (2014) Limi et al.

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1. **Advantages and Disadvantages of Firefox**

**Advantages**

* **Speed -** According to reports, when it comes to download speed, it is the fastest browser. Programs and files download quicker, and customers also receive a table-like record of all their downloads that they may move or delete as needed.
* **Security -** Advanced security features in this browser help shield a computer from spyware and even some viruses. Additionally, it includes a cutting-edge pop-up blocker that blocks practically all of them.
* **Tabbed Browsing** – enables users to organize their browsing by allowing them to open an infinite number of pages in a single window. Firefox also contains integrated memory, so even if the machine is accidentally shut off, the browser will still remember your preferences. which sites were open and offer to restore the previous session. **(Diana Bocco, August 16, 2023)**

**Disadvantages**

* **Compatibility issues** – Compatibility is one of Firefox's key drawbacks. Some websites won't display correctly in this browser and need the user to use Internet Explorer to view them.
* **Memory** – Compatibility is one of Firefox's key drawbacks. Some websites won't display correctly in this browser and need the user to use Internet Explorer to view them. Running Firefox consumes a lot of RAMS. Even on a modern machine, some users could discover that using the browser becomes challenging while multiple other apps are open. When too many tabs are open at once, the program also tends to freeze and close, which is why the company actively invested in developing the recovery memory feature.
* **Interrupted Services** – The inability to resume broken downloads is yet another drawback. For those with cable or DSL service, this might not be a significant worry, but those with dial-up connections might run into a lot of issues as a result. Dial-up users may experience numerous issues with the browser because it was created with high-speed internet users in mind. **(Diana Bocco, August 16, 2023)**

**QUESTION 5 – Request for Proposal**

**5.1 Introduction**

* "Request for Proposal for Integrated System Service" is a possible title for the RFP.
* The organization needs the assistance of developers who can combine four distinct services into a single, universally applicable solution.
* The proposal will include suggested budgets, deadlines, and specifications.
* Contact information will be provided in case vendors need clarification or advice.

**5.2 Background**

* The business is called "Aussie Business Buzz (ABB)".
* Brisbane, Sydney, Melbourne, and Canberra are the four (4) major cities in Australia where there are branches.
* The core of ABB's business is the sale and maintenance of numerous technology products, including desktops, laptops, phones, routers, and related accessories.
* ABB is a new company, and with the help of this suggested method, ABB will be able to grow to include more locations in Australia.

**5.3 Contact Details**

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

**5.4 Description of work**

The RFP will cover all four of the services that ABB needs for the integrated system. ABB is looking for a developer that will handle development, implementation, testing, support, and maintenance. The developer will also be in charge of the procedure for an upgrade when one is necessary for the system.

The following are the services that ABB needs:

1. **Customer Relations Database Service**

* This service will provide specifics about ABB's goods and services as well as information on clients who have equipment in need of repair. (Bryce Baer March 12, 2022)

1. **Marketing System Service**

* By utilizing digital platforms including emails, social media, the ABB website, and others, this service will assist in extending the reach of contemporary marketing. In order to advertise, it should cooperate with the CRD service as well. (Rese et al, 2013)

1. **Stock Management System Service**

* They will be able to keep track of all the objects in storage, such as devices that need to be sold, parts that can be fixed, and accessories, with the aid of this service. When necessary, they ought to be prepared to search other branches.

1. **Report Generating Services**

* Reports based on the first three services indicated must be able to be generated by this service. They are reports that senior management levels at ABB have asked for.

**5.5 Decision Making Requirement**

If the vendor is to be selected to create the integrated systems, they must fulfil the condition listed below.

* The system's name and ownership rights must belong to ABB.
* Provide documentation of each project team member's qualifications.
* Capable of comprehending the extent of the work
* Provide suggestions for enhancements.
* Give examples of prior items.
* Willing to complete tasks within the allotted time and money
* Provide three references from prior employers.
* The vendor must be accessible during ABBs' regular business hours.
* A team member participating in a distinct project area must be designated by the vendor as being available during specific times.

**5.6 Target Market**

Regular consumers should make up the target market for ABB since they can provide input that will help to enhance the product and meet customer needs. Additionally, in order for its stakeholders to fund future expansions and upgrades, they must be pleased with the end result.

**5.7 Schedule**

|  |  |
| --- | --- |
| RFP publication | July 10,2023 |
| Query and Response | July 20,2023 |
| choice of the vendor | July 30,2023 |
| The vendor must meet the requirements. | August 31,2023 |
| Adapt to vendor and ABB's ideas | September 10,2023 |
| discussions about the budget and schedule | September 20,2023 |
| Finalizations | October 31 |

**5.8 Budget**

The project must be completed within the allotted budget. The whole budget, which includes the average hourly rate, Q&As, adjustments made during the development stages, and the creation of media to publish on the marketing platforms until the project's anticipated conclusion, should be in the range of $60,000.

**5.9 Vendor Information**

Additionally, to technical information, the vendor must to be able to supply clear credentials.

* Supplier's name
* Employee and ownership structures
* Records of business registration
* Information about the company's point of contact
* A summary of the team members and the department's organizational structure.
* Extensive documentation of prior initiatives
* A synopsis of the company's and its owners' objectives.

1. References from previously completed projects

**QUESTION 6**

**Final Agreement made between Vendor and ABB**

Once all of the system's content has been created and is operational. The vendor must sign a legal document stating that ABB is the sole owner of any intellectual property generated and used in the creation of the system.

1. References
2. <https://developer.mozilla.org/en-US/docs/Mozilla/Firefox/Developer_Edition/Nightly_builds>
3. <https://developer.mozilla.org/en-US/docs/Mozilla/Developer_guide/Sources/Introduction>
4. <https://developer.mozilla.org/en-US/docs/Mozilla/Firefox/Development>
5. <https://www.mozilla.org/en-US/firefox/>
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8. <https://www.xero.com/us/>
9. <https://www.datapine.com/>
10. <https://www.easytechjunkie.com/>

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>
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