

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 to submit in any other file format please discuss this with your lecturer well before the assignment submission date.

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Unit Name: **ISYS3001 Managing Software Development**

Unit Code: **ISYS3001**

Tutor's name: **Zhenjin Huang**

Assignment No.: **Assessment 2**

Assignment Title: **Practical Skills**

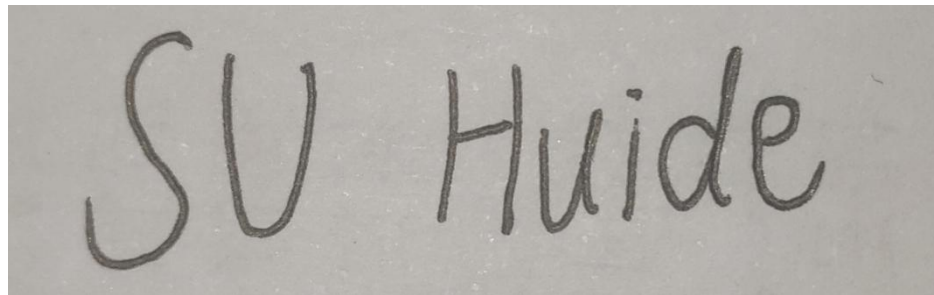
Due date: **25 September 2023 11:59 PM (AEST)**

Date submitted: **24 September 2023 9:30 PM (AEST)**

Declaration:

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Date: **24 September 2023 9:30 PM (AEST)**

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Configuration Management

Change management

Establish a team of developers, testers, project managers and related personnel to plan and implement the change management process, and enhance communication and cooperation between departments. • Create clear processes that define each team member's role, and ensure that each team member can understand the relevant content of change management, and how to report and track changes. We then set up standard change request and review processes to ensure that every change can be evaluated and approved to reduce errors; It can also introduce automated testing tools and continuous integration technology to reduce integration problems and improve efficiency, help to find and correct problems in time to ensure the development of software. Periodically review and evaluate how well your change management is working, and adjust improvements based on the results. Data can also be collected to understand the impact of change management on the project, so that corresponding actions can be taken. These can strengthen communication and cooperation between employees and improve efficiency.

Version management

Establish a unified version control system to ensure developers can use the same code baseline, reduce code conflicts and integration issues, and find version history Specify a clear branch management strategy, so that the master branch can be used for stable versions, and developers can develop and test on their own branches to ensure that conflicts between branches are resolved in a timely manner to avoid delays and integration problems. • Implement a code review process to ensure that code changes are reviewed, which helps find potential errors and ensures that code merges are tested and validated.

System building

The system is divided into independent modules, each module is responsible for the specified business, so that developers can work independently and reduce mutual dependence and conflict. Establish clear interface specification and documentation, redefine the interface and interaction mode between each module, so as to promote the co-integration between different modules. • Use automated testing tools and continuous integration processes to ensure the functionality and performance of your modules so that problems can be found and fixed. Establish a good team collaboration and communication mechanism, encourage communication and cooperation between developers, and reduce the situation of asymmetric information.

Release management

Create a detailed release plan, including each release date, features, fixes, and so on, to ensure that developers and related teams understand the release plan. Set up the management of different environments, such as development, production, testing, and ensure that the configuration of each environment is the same, which can reduce the problems caused by different environments. Automated deployment tools were introduced to automate the release process, reduce human errors, and improve the consistency and efficiency of release. Running integration tests before a release to ensure that each module is working together and that functionality is stable can help you find and fix problems and avoid delays.

Request for Proposal

- **Background on your organisation**

The agency sells a variety of technology products, such as personal computers, laptops, telephones, routers, etc., and provides equipment repair and mobile equipment accessories.

- **Requirements**

1. In order to better understand customers, the company needs a customer relationship database, which contains information about products and services purchased by customers, as well as equipment information recorded for maintenance, including customer details, customer purchase history, work details, problem reports, etc., to facilitate better customer service.

2. In order to increase turnover and increase sales, the company needs a marketing system that can use email, social media and any other modern marketing technology for digital marketing. This marketing system needs to use the details of the customer relationship database,

and the system can also allow the details of other potential customers to enter into the existing website to attract new customers.

3. Inventory management system is required, which includes products for sale, parts for maintenance and automatic ordering of wholesalers, so as to understand the usage of various parts in inventory, manage and inspect them. The system must also be available in other regions so that products and parts can be found from other locations in the company when customers need them.

4. There needs to be a service system that allows employees to communicate all of the above to the management of the company (possibly from any location) so that they can order inventory, replenish supplies, and avoid stock-outs. At the same time, it is convenient for managers to recruit employees and make other management decisions.

- **How do you evaluate the proposals?**

Assess the company's size, organizational structure, experience, etc., to understand whether the company has sufficient resources and capabilities to complete the project and meet the project requirements; Review similar projects completed by the company in the past, and evaluate the company's performance and results in the project to understand the company's project management capabilities, delivery quality and technical capabilities; Evaluate the company's team members, including project managers, developers, and so on, to understand their capabilities and experience, and their suitability for the project requirements. Evaluate whether the proposed solution matches the project and can provide a feasible solution; Evaluate whether the cost in the proposal is reasonable and compare it with other proposals, while considering the balance between cost and quality.

- **How to get additional details about projects**

Communicate with the project team and related departments to understand the background, objectives, scope and key information of the project; Arrange meetings and interviews with the project leader to understand the specific requirements of the project through direct communication, solve problems and obtain more details; Conduct relevant research and analysis to understand industry trends, similar

Project lessons learned; It is also possible to arrange an inspection of the project results in advance to facilitate a better realistic picture.

- **Budget/Time frame**

Budget

Phase 1: \$5,000

Labor cost (\$2,000) : initial work for project managers, developers, and others;

Site visit fee (\$1,500) : market visit or conference;

Other related expenses (\$1,500) : purchase or rent of hardware equipment, purchase of initial software license, etc.

Phase 2: \$5,000

Labor (\$2,400) : the work of developers, testers, and others

Hardware and software (\$1,350) : server, software, operating system, etc.

Other related expenses (\$1,250) : IT consulting services, professional training, etc.

Time frame

September 28: RFP sent and released;

October 1: Registration deadline;

October 5-8: Video conference with vendors to discuss RFP;

October 19: Deadline for vendors to submit proposals

October 25: Selection of finalists;

October 30 to November 3: Supplier finalist report presentation;

November 7: Selection of final supplier;

November 21: Target project start date.

Please contact me for more details and questions

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