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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.**

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.

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| Student Name: | **Erandi** |
| Due date: | **19/08/2021 (Special consideration applied)** |
| Date submitted: | **[18/08/2021]** |

**Introduction and conclusion**

This report is related to Managing Software development projects, which is include three parts which are, software testing, configuration management and report for request for proposal. In the first part of this report include some details of the acceptance test with the example. This example is related to detect the plagiarism of the academic paper submission by the research and development staff. Also, which include the detailed black-box test plan. In this scenario explain the black box test plan with the relevant example. Next part is for the configuration management. This section the report fork to the GitHub and modified the document. Furthermore, explain the change management and the build management. In last section (third part), produced a Request for proposal for the Smart-tech Auto Services. Finally, this assignment report is based on the real time scenarios with relevant examples.

**Part 1 – Testing**

**Acceptance test**

In acceptance test perform testing on google research which allow the staff members to publish their papers. This case study has different scenarios on which we can perform the testing. It informs user about optional checking of bibliographies. The system allows the user exclusion of proper quotations. It also allows user to set minimum number of the matching words and the resubmission of the papers in the given date and time.

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| **Series No.** | **Scenario** | **Expected Outcome** |
| ***Scenario 1 – Optional checking of bibliography*** | | |
| S1.1 | A user login to the system | * User can access system * The system displays the Turnitin link * User can click submission button * User can upload the document |
| S1.2 | User check bibliography | * The system check for the bibliography from the system * System shows the increase similarity * User can see the filter * User can select the bibliography |
| ***Scenario 2 –Allow proper quotations to be executed*** | | |
| S2.1 | Filter paper with the quotations | * Quotations will be executed from the paper * Paper executes the quotation * User can see the similarity percentage * Option for execute * Execute the common words |
| S2.2 | Filter paper without quotations | * System does not execute the quotations * Similarity will decrease |
| ***Scenario 3 – Allow setting a minimum number of matching words*** | | |
| S3.1 | User enters minimum number of words | * System checks same number of matching words * System executes the similarity report |
| S3.2 | User enters zero number of words | * The system display error message * User cannot execute the paper |
| ***Scenario 4 – Allow resubmission of papers up to a given date/time*** | | |
| S4.1 | User resubmits paper on date/time | * System displays the resubmission button * User can click resubmission button * User allows to resubmit the paper |
| S4.2 | User resubmits paper after date/time | * The user cannot see the resubmission link in the system * The resubmission link will not work * The system will display error message * The user can not access the resubmission link |

**Example of simple automated acceptance test script**

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| **Scenario No.** | **Scenario** | **Expected Outcome** |
| S1.1 | Users log in to the system as a staff and upload the paper. | User can see Turnitin link after login to the system and user can upload the paper and its display the successfully upload message. |
| S1.2 | User can see the filter tab in the system and when click it user can click the bibliography in left hand side | After user select the bibliography user can see the results after clicking it |
| S2.1 | When user click filter icon, user can select the quotation | After user select the quotation user can see the result (similarity percentage) after clicking it |
| S2.2 | User can execute the paper without selecting the quotation | user can get the result (similarity percentage) without quotation |
| S3.1 | User can enter minimum number of words in system | user can get the result in the window |
| S3.2 | User can enter zero number of words in system | User can see the error message in the system |
| S4.1 | The system shown in the resubmission button when login to the system on time | User can upload the paper again and after uploading it user get the message successfully uploaded |
| S4.2 | System does not allow to access the resubmission link after the time | System displays the error message |

**Black Box Test**

The black box test is another type of testing which will not allow the user to test for the internal feature of the system, but it will allow user to enter input and test for output shown by the system. It does not have any relation with internal operations which are performed by the system. In this section shown, black box testing for the google job application site.

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| Widgets | Scenario | Expected Outcome |
| What do you want to do (Search) | Enter “Software Development” | * Show all the job vacancies related software development keyword * Shown related courses and advertisements * Suggestions related recruitment services * Interview videos * Job salary details |
| Location field | Enter “San Francisco, London, Michigan” | * Show all the jobs located in given location |
| Degree | 1. Select single degree 2. Select multiple degree | * Show all the jobs for that single degree * Show all the jobs for multiple degree * Show related job qualifications * Show related courses and advertisements |
| Job Types | Select one of the job types (Part time, full time, intern or temporary) | * Show all the selected jobs (Part time, full time, intern or temporary) * Show companies which are provide the internships |
| Clear Filter | Select clear filters | * System clears all the fields that user enters |
| Turn on Job Alert | Toggle alert button | * System sends alerts to the user for the job notification |
| Sort by | 1. Date 2. Relevance | * Sort the suggested job according to the date (Most relevant) * Sort jobs basis of relevance |
| Action on job | 1. Share 2. Save | * System allows user to share the job with friend by clicking the share button * User can save the job for future action of future reference |

**Part 2 – Configuration Management**

1. **Code/file version management**

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1. **Change Management**
2. Change management can be defined as a formal proposal for making some alteration of the system or the project. The request of the change in the project management, generally takes place when client needs to either add or make some alternation to the approved deliverables about the project. The change type can involve extension of any service or involve additional feature. The change request is outside the scope of the contract and the client need to pay for extra resources so it can satisfy the changes.

Another aspect of the change management is to make sure that all the factors are explicated adequately, and all the parties are agreeing with all that result is expected. The detailed and explicit document will help us to identify when change request need to be submitted. The change request can also create internally. If there is request of internal change, then it can consist of wide variety of the actions when includes software patching upgrade and hardware upgrade. When request of the change has been made for whole process for change control will be assumed to make confident that the request is satisfied in effective conduct, and it does not need any unnecessary resources.

The change management can be defined as a systematic approach for dealing with the evolution process, technology, or organisational goal. The main purpose of having change management is to realize the strategies which can help to get effective changes, control the change, and help to adapting such changes. These types of strategies can have structured procedure to request the change and mechanics to respond for the request and follow it.

1. Change management is an authority process, which role is to review, authorise and schedule the change. Release management task is an illustration of the process. Which is work with the help of change management to build, test, and deploy new or update services to the expected changes.

The change management behaves as the gatekeeper which is used for protecting the production environment when it is assessing the release plan. Release management behaves as the door which is used for build testing and deploying the changes in the batch. The change management has pre and post deployment activities and it also include the change schedule. All the changes will not result in the release, and it has a quality control point. This is done at the strategic level, and it can have the authorization process. The release management has deployment activities and long-term release windows. All the releases which are done will have either one or multiple changes and it also have the packaging for approved changes. It can be defined as the implementation process which is performed at the operational level.

Also, the process of release management is mainly involved with delivering a project with their plans and schedule for execution. Normally, change management, change approval is focused on allowing modifications to managed environments.

1. Release management is not straight forward for complex system. As a example there are several major versions for Microsoft. All versions have several updates which are made to users on times, which is depending on the options of user’s configuration. Microsoft also send patches to the users to address immediate and usually serious issues. These patches in the release management may not change configuration files, and not include the software design documentation or the data files.
   1. **Build Management**

When we want to have previous access for the most recent Chrome development concept, then it can be provided by the developer. The nightly Chrome updater extension can be useful for transferring the most recent nightly builds as it provides us the constant browser detail about the Chrome. The nightly builds are very good as they can provide us immediate feedback about anything which is broken by the developers.

If we have the nightly builds, then it allows us to have the information about stability of the software and to be expected to build for the new users. The software which are not build frequently becomes complicated for the release. Then nightly builds are generally built from the scratch. The build server can check out the code and then rebuilds it. Which is helps to make sure that we can build from the scratch, and we are not relying over the build artifacts which are collect from the build.

**Advantages**

* When the department is building regularly then it helps check for issues to users and which is to be simpler for the developers to find out the works which are existing in the system and work sources as it was done on the last day for stocks the nightly system build is more helpful to find out the problems and real cause behind it.
* To improve the overall system quality and the defects is easier to the development team.
* Which makes easier for the developers to understand the system and find out the location where is the errors occurs because it is allowed to have the frequent integration.

**Disadvantages**

* Create the repository is not an easy task and it waste the time.
* IT is not feasible to check the system on the level of the basis for the developers.
* It is not possible to work with small size team and the list of errors as it can also distract the developers when they find errors continuously.

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

**Introduction**

In this part we will request for the proposal of the smart tech auto services. It is a type of document which is generally used for writing the proposal to the organisation and present the bit to develop the system or the software. It is a sort oof document which can request the agencies to present their project proposal for system development. This proposal will have information about our company and what we are required, and which is helps to get the reaction from various organizations or the groups and select the best solution among them.

**Quick facts about the Smart Tech Auto Services RFP**

Smart tech auto services are a business which is known for selling different smart automotive products and which is known for offering the repairs and services to the trucking companies, which are traveling for long distances around the Australia and provide transport and logistic services. The company want to have the integrated system which can support the company’s six branch shops which are present in the Australia as the opportunity is increasing. This system will evolve overtime and can plan them to expand it to different locations. The company have few initial requirements which needs to be fulfilled so that can achieve the desired results.

The company want to create a customer relations database which will help information about the services and products which are purchased by the customers and the devices that gave for the repairs. It needs to include information of the customers details, customer problem report, work details, purchase history of the customers and other relevant information. A marketing system will be required which can allow company to have digital marketing with help of social media emails or other modern company marketing techniques.

The company use details present in customer relation database, but they want to have other prospective customer details which can be entered in the current SAS website, but which is not part of the request for proposal. The company want to have a stock management system which will have information about the products for sale parts which are used for repairing, automatic ordering from the wholesalers and few other operations. The system will help to search for the products and the parts which are present at other branch locations. The company has specialisation in providing help who the customers with 24/7 repairs. The SMS is sent to you have the real time monitoring and diagnostics for the product. The company also want to generate the report for the management who is present any location about the status of all above so theta they can check for the stock make other management decisions and recruit the staff members.

**Background of Smart Tech Auto Services**

Smart-tech Auto Services (SAS) is producing the smart automotive products, particularly offering repairs and services to trucking companies that travel long distances around Australia producing transport and logistics services. We have six branches around Australia.

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**Request for RFP:** 1 September 2021

**Deadline for bidders to submit questions**: 10 September 2021

**Smart Tech Auto Services responds to the questions**: 21 September 2021

**Selection and negotiations with bidders:** 25 September 2021

**Detailed overview of the project/initiative:**

All the proposals need to submit to the given official email ID of the company. 10th of September is the last date of submitting the proposal. Further proposals will be accepted by the organisation after this date. The proposal needs to be submitted in the PDF file format and it should be names as the request for proposal. Once all the proposals are received, then one will be selected and the team which is selected, is expected to develop the whole new system within 20 days. A detailed description will be provided about the firm and all the requirements are included to show the information about the product. The file should also have some related information about marketing and development ideas for the required system.

We want to create a customer relations database which help information about the services and products which are purchased by the customers and devices which are left with us for the repairs. It will have information about the customer details, report for customer problems, work details, purchase history of the customer and many other related information.

A marketing system will be required which can allow us to have digital marketing with the help of social media email or any other modern marketing techniques. We will use the details present in customer relation database, but we also want to have other prospective customer details which can be entered in the current SAS website, but this website is not the part of request for proposal.

We want to have a stock management system which will have information about the products for sale parts which are used for repairing, automatic ordering from the wholesales and few other operations. This system will help us to search for the products and the parts which are present at other branch locations. The company has specialisation in providing help who the customers with 24/7 repairs. The SMS is sent to have the real time monitoring and the diagnostics for the product. We also want to generate the report for the management who is present at any location regarding the status of all the above so that they can check for stock, make other management decisions, and recruit the staff members.

**Benefits:**

Everyone will be involved in all the meetings, and they have to report us to deliver the services, competitive cost will be shared, and the selected team will be able to work for one year as the full-time agency with us.

**Executive Summary**

The present report illustrates the detailed report discuss how to manage the software development project test for different stages of testing, configuration management and how to write the request for the proposal (RFP). This report discusses more details of the change management, build management and release management. Which explain more about how to right way for developing the software product and test the product. Also explain Request for proposal (RFP) document to request for proposal of solutions from the suppliers. This helps bring more ideas and develops the learning process in to manging software development projects.

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