CMP73010 Assignment 1 document (2017)

**Managing Software Development**

**Part 1 – Testing**

Specifications:

The matching must be configurable providing:

1. Optional checking of bibliographies

2. Allow proper quotations to be excluded

3. Allow setting a minimum number of matching words

4. Allow resubmission of assignments by students up to a given date/time

Acceptance Tests:

|  |  |
| --- | --- |
| Scenarios | Expected Result |
| S1.1: The system must track student submission time and dates | * Assignment name area is created * Student name area is created * Instructor name area is created * Submission due date is displayed * Assignment upload area is displayed if due date is not over. * If due date is over, then a pop up not allowing the submission of assignment is displayed. * Submission time area is tracked automatically. * Submission date area is tracked automatically |
| S1.2 The system provides an analysis of the matches found in other student’s work | * This is on instructor’s end * All student assignments are displayed in an area. * Instructor opens an assignment. * Gets a button to check similarity of assignment with other student’s assignment * Report is generated once button is pressed displaying the content similar with other students. * If similarity is above 18%, instructor cab discard the assignment. * An area where instructor is supposed to add remarks allowing or disallowing him the resubmission. * If instructor doesn’t allow the student to submit assignment then marks will be automatically assigned 0. * Discarding assignment will send a notification to the concerned student, also if instructor allows he/s she can submit assignment again in the time instructor has given. |
| S1.3 Similarity of assignment in Internet documents and in paper based publications such as books and magazines | * If the assignment is less than 18% similar with other student’s work, then instructor is asked to check plagiarism with internet document and paper based publications. * A report is generated after instructor clicks on generate the plagiarism report button. * If plagiarism is less than 18%, process is carried on else it redirects instructor to the page allowing or disallowing the student a resubmission. * If instructor doesn’t allow the student to submit assignment then marks will be automatically assigned 0. * Discarding assignment will send a notification to the concerned student, also if instructor allows he/s she can submit assignment again in the time instructor has given. |
| S1.4 Instructor Checks the assignment | * Instructor after checking assignment marks the assignment * Remarks area is displayed |
| S1.5 Analysis made on student’s assignment will available to him. | * Student is sent a detailed report of the assignment containing student’s similarity rate, plagiarism rate, marks assigned by instructor, remarks by instructor and a button that will request a resubmission to the instructor. * Student is required to accept the result if he/she doesn’t want a resubmission or rechecking. * The result is then locked in the student management system. |
| S2.1 Allow proper quotations to be excluded | * Instructor will have a page where he can change the settings of system according to his priorities. * He can allow or disallow the quoted material. * If he allows the quoted material then the quoted material will be ignored while calculating plagiarism. * If he disallows then the quoted material will be included and will be checked for similarity * Quoted material will be only the one with double quotes, single quoted will not be considered. |
| S3.1 Allow setting a minimum plagiarism percentage | * Instructor will have a page where he can change the settings of system according to his priorities. * He can allow a minimum level of plagiarism for example its 18% in general, he can change the rate according to his will. |
| S3.2 Allow the minimum matching words | * He can set a minimum level of matching words. * Also, he can set if he is adding stop words in that level. |

***The detailed black-box test plan***

|  |  |  |
| --- | --- | --- |
| **Microsoft Word Print Page** | | |
| **Widget** | **Test** | **Expected Output** |
| “Print” Link | Check if it gives command to printer | Print of the page |
| Choose from “Printer” drop down list | Check if it open a drop down list | A drop down list of available printers, fax and pdf converter |
| “Add printer” Link in drop down list of printer | Check if it allows you add a printer | Add printer dialogue box |
| “Print to file” link in drop down list of printers | Check if it selects the option and lets you print the file to another file | Checklist the option tick |
| “Printer Properties” Link | Check if it displays the properties of printer | Printer Properties Dialogue Box |
| “Print all pages” from the dropdown list under settings | It should command to print all the pages of the file | All pages will be printed |
| “Print Current Page” from the dropdown list under settings | It should print the page that is currently open | One page print that is opened |
| “Custom Print” from the dropdown list under settings | It should let you select the pages you want to print, it can be random pages or the range of pages | Cursor moves to the page number area and you are asked to enter pages you want to print |
| “Document Info” Link | It should print the information relating properties of document | Print on which properties of document are printed. |
| “List of Markup” Link | It should print just your comments along with any other markup made to your document | Print on which your comments regarding document are printed. |
| “Styles” Link | It should print the list of styles used in the document. | Print the List of styles used in your document |
| “AutoText Entries” Link | It should print the List of items in auto text gallery | Print the List of items in auto text gallery |
| “Key Assignment” Link | It should print List of your custom shortcut keys | List of your custom shortcut keys |
| Only print even pages | It should print the even number of pages of the document | Print of the even number of pages |
| Only print odd pages | It should print the odd number of pages of the document | Print of the odd number of pages |
| “Print one sided” Link | It should give command to print on only one side of paper | One side of paper should only be printed |
| “Manually Print on both sides” Link | It should let the user manually print the pages on both sides of paper | Print of both sides of paper |
| “Collated” Link 1,2,3,1,2,3 | If you print the same document two times then it should let the first document complete | the pages print in this order: 1, 2, 3, 1, 2, 3 |
| “collated” Link 1,1,1,2,2,3,3,3 | It should let the first page of document be printed for as many times as you want and then it moves to the next page | the pages print in this order: 1, 1, 2, 2, 3, 3 |
| “Portrait Orientation” Link | It should print the document in portrait orientation | The portrait print of the page |
| “Landscape Orientation” Link | It should print the document in landscape orientation | The landscape print of the page |
| “Page Size” Link | It should let you choose the page you are using for print for better alignment. | Print on the page according to page size given. |
| “Margins” Link | It should let you choose the margins you want on you page | Print the margins user selected. |
| “Number of Pages per paper” Link | It should let you choose how many numbers of pages you want to print on one paper | Print the chosen number of pages on one page |
| “Scale to Paper Size” Link | It should let the number of pages being printed on the paper being scales according to paper size of printer | Pages scales according to printer paper size. |
| “Page Setup” Link | It should let user see and set the page properties | Displays page setup dialogue box. |

**Part 2: Configuration Management**

**Build Management**

**Briefly describe the Microsoft nightly build system for managing changes to Microsoft operating systems and other software?**

In last few time, many of the changes in the technology industry has been made. The biggest of them is automation of everything, so that we won’t be needing a human to carry out the tasks. In software development, build systems are introduced are software tools designed to automate the process of program compilation Microsoft nightly build system is a system that builds and deploys changes continuously. There are teams working on the systems simultaneously, every team is allowed to evolve the design and features. Microsoft nightly build system allows different teams to work on different feature and also allows the teams to configure any change at any time. The system is itself able to find bugs and if the bugs in that change patch is above a certain amount , system itself discards the change and can further discard the team to implement change.

**Advantages of this system for Microsoft and other systems**

* Automation of system that can detect bugs.
* Time and cost is saved
* Teams producing buggy patches will be blacklisted.

**Disadvantages of this system for Microsoft and other systems**

* Teams have independence to apply any patch and cause any change which can harm the system.
* People can be unemployed.

**How does Microsoft arrive at a release that is distributed to the public?**

A process that Puts together partially completed or finished pieces of the software by many teams. The goal is to determine what works and what doesn’t – Done by completely recompiling the source code and executing automated tests. Microsoft then run its build process that starts with planning , development, stabilization is done and after that Microsoft arrives at a release that is distributed to the public.

**Part C – Request for Proposal (RFP)**

1. **System Description:**

**Background of our organization:**

*Kool Dudes Mobile is a business that provides new mobile devices, device repairs and mobile device accessories.*

**Contact information:**

Contacts for questions about this RFP:

Barry Wilks

T 8912398217387

E barry.wilks@scu.edu.au

P: Upper east side, Woopi

All submission to be sent to [tendering@scu.edu.au](mailto:tendering@scu.edu.au)

**Schedule for this RFP process**

Due date: 30th October 2017

Decision by: 30th November 2017

**Basic summary of the project, including overarching goals and timeline**

System we intend to design must have 4 feature in totality.

* **Repair Database:** Containing the information about the devices they have got for repair, Database must allow storing information about customer, problem that mobile reports, contact number, work details etc.
* **A marketing System**: A system that will allow the manager to send e-marketing emails or social media posts for clients. The client’s information will be collected from the repair database for marketing purposes.
* **A stock management system:** it will have information about *products for sale, parts for use in repairs, automatic ordering from wholesalers. The system should have information about products available in all the dude stores. It should be able to search the part and provide you the information in which store this part is available. It should also notify the manager if some parts have been stocked out.*
* **Report Generation:** System should be able to generate daily, weekly, monthly and yearly reports for management who should be able to access the reports at any location so that they can stock , hire and fire at any place. Also other managerial decisions can be made.

**Budget**

$1,000,000 maximum

**General scope**

* App will be used by management and employees of the organization.

Time frame

Due date: 30th October 2017

Decision by: 30th November 2017

Acceptance testing: June 2018

Implementation date: July 2018

**Business requirements**

**System interfaces:**

Repair Database

Marketing System

Stock Management System

Report Generation

**Creative/design requirements**

Incorporate the company logo and the advertising standards.

**Functional requirements**

See above summary

**Content type/Content development needs**

Interface with old kool dudo mobile system for data

**Existing technical environment/requirements**

Check the existing system

**Your preferred working relationship requirements**

We would like to meet with developers on request and at least every two weeks

Acceptance testing by management and employees

**Ongoing support and maintenance requirements**

We requires two year suitability for service warrantee.

**How we would evaluate proposals received**

We will evaluate your FYP on your ability to

* Meet the functional and technical requirements as we described above in the system description.
* Meet the need of changing requirements. You should be able to build a system that will be functional in a long run. Also, a proper method of how you will want the system to be modified and upgrades will be made according to changing needs of industry.
* Demonstrate how you are better than others in terms of expertise and functionality.
* You should be able to provide a superior level of customer service and technical support to the system before and after installation.
* Provide a cost effective solution that will be meeting the financial goals of the organization in long run.

We will be weighting your FYP according to the table 1

|  |  |
| --- | --- |
| Coverage | 40% |
| Functionality/Technology/Reliability | 30% |
| Cost | 10% |
| Local Support | 10% |
| Misc. | 10% |
| Total | 100% |

**How we would answer questions**

* You can email us at emailing address or meet our representative to get any information you require to make a good FYP
* Once, we have shortlisted four vendors, we will ask them to present their Proposal , further questions from both sides can be addressed there.
* After finalizing the vendor who would be developing our system, we can have a detailed discussion and the concerns from both the parties should be addressed before signing contract.

**Worth of your proposal**

The company is going to launch a big system soon, it will be a good addition in your profile if you get it. In a long run, we’ll be needing your company to be upgrading the system, so it’s a great financial opportunity. Even if you don’t get it, it’s worth trying and experience can help get you some other good project.