**My Assignment question**

CMP73010 Managing Software Development Assignment 1 (S2 2018) This assignment is due 11:00 pm on 2nd September, 2018. The assignment has a small component that must be completed on-line but a majority is a written report. Suggestions for the report structure are given in each section of the requirement. The report itself should be submitted through the Turnitin link in your MySCU site. Please note that the assignment is due some weeks after the required materials are covered in the on-line sessions. Please do not leave the assignment to the last minute as you can start work on much of the assignment well before the due date. If you do require an extension for submission you must request this before the due date. Unless an extension is agreed, a late penalty will be applied. Each day late submission will apply a 20% penalty with a maximum of 4 days late. Submissions after four days will not be awarded any credit. Please note that a timestamp of 11:01 on the due date is considered one day late. This assignment covers the testing, configuration management and software tendering processes with each of these a separate Part of the assignment. Hints and clarifications may be published by your unit assessor in the unit forums. Important: As you may well be aware, this assignment is similar to the one handed out in previous years. We are perfectly happy for you to chat and discuss with previous students of this unit and your current classmates. But you must submit your own solution with reasoning. The last bit is particularly important. What we are looking for is the thought process behind your designs and solutions as well as the actual solutions. Reports which do not give satisfactory reasons for their designs and solutions will be penalized. Part 1 – Testing (7 marks) There are two components to this part of the assignment. You are required to produce an acceptance test description and a detailed black-box test description. These two test types are related but you should consider them separately. The Acceptance test (3 marks) A university requires a system to allow on-line checking of student submissions to detect possible plagiarism. The system must track student submission time and dates, and provide an analysis of the matches found in other student’s work, in Internet documents and in paper based publications such as books and magazines. The analysis will be available to the student who submitted the assignment and the marker of the assignment. 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 Outline an acceptance test for the above system as described. In the study guide, this is steps 1, 2 and 3 of the acceptance test criteria. Most of step 1 is in the above system description but you can refine and expand if you wish. Remember that acceptance tests can be designed without access to the actual product, though in this case you will know about a possible candidate from the black-box testing below. Other products may be acceptable so do not restrict your plan to the product you have access to. Detailed testing of the product is for the next part of this assignment. You can enhance the requirements above if you wish, or clarify them based on your own knowledge. If you do adjust the requirements your plan will be assessed against your additional specification. You should be able to describe your acceptance test in 300-500 words (1-2 pages). The detailed black-box test plan (4 marks) A detailed black-box test plan does assume you a very familiar with the product you are testing. The aim here is to use your knowledge of testing to black-box test an existing piece of software in detail. The product to develop the detailed black-box test plan is Microsoft Word 2106 Print dialog as shown on the left. This version of word is available to all students so you can see its operation if you need to. The various drop-down lists will vary between users of the software. When you specify tests, you can assume that the setup for the test can be achieved. For example, you may say “add five printers and select the last one” and assume that this can be achieved. Produce a detailed black-box test plan for this dialog box. You do not have to produce a detailed black-box test for any dialog box or new screen that any of the controls launch. However, you may have to refer to the selectable options for testing each of the widgets on this dialog as you test the interaction between widgets. Note that you can, if you wish, apply your test plan to the product, e.g. you can test individual input fields and interaction between fields. This is a commercial product, so you would expect the product to pass the test (if you do find a bug then we will notify the software developers). For this assignment we are looking at the test plan, not the actual test results. For the detailed test plan you will be assessed based on how your test plan applies to the indicated part of the total product. The total Word 2016 product is extensive system so do not attempt to do a detailed test on more than the this dialog. Note that testing is a creative process, especially when trying to break the software. You will come up with test ideas that other people will not think of (including your marker). In addition, it will not be possible to exhaustively test the software. Marks will mainly be awarded on the completeness of your strategy for testing for each widget. Creative testing ideas may also be rewarded but there are basic testing strategies that you must describe as well. Part 2 – Configuration management (7 marks) Code/file version management (2 marks) There is a GitHub public project named: ammarscu/CMP73010-Ass1-2018 You are required to sign up to GitHub and then: 1. Fork this project into your public space 2. Modify the Word document called CMP73010.docx (it contains instructions) 3. Request a pull of the project Note that at various times the project manager will pull changes into the mainline. This will be reflected in your GitHub view of the project. Important: In your assignment submission for the rest of the assignment you must state your GitHub account name! (so the marker can confirm your project activity). Remember that your name will be public so please do not disclose any personal information. Do not place your student-ID in the GitHub document or elsewhere in the project. Build Management (5 marks) Briefly describe the Microsoft nightly build system for managing changes to Microsoft operating systems and other software (2 marks). Then, give your description of: 1. Advantages of this system for Microsoft and other systems (1 mark), 2. Disadvantages of this system for Microsoft and other systems (1 mark), and 3. How does Microsoft arrive at a release that is distributed to the public (1 mark). Note that the Microsoft nightly build has evolved over time so carefully reference the facts that you have gathered and indicate the dates to which your descriptions refer. You should be able to answer this section in 300-500 words (1-2 pages). Part C – Request for Proposal (RFP) (6 marks) Provide a detailed RFP for the following system. Kool Dudes Mobile is a business that provides new mobile devices, device repairs and mobile device accessories. They want an integrated system to support their 5 branch shops as the opportunity arises. They envisage the system will evolve over time and plan to expand to many more locations. Their initial requirements are: 1. Provide a repair database with information about devices left with them for repair (customer details, problem report, work details, etc.) 2. A marketing system that allows electronic marketing using e-mail, social media, and any other modern marketing techniques. This will use details in the repair database but allow other prospective customers details to be entered in the existing Kool Dudes website (not part of this RFP). 3. A stock management system that includes products for sale, parts for use in repairs, automatic ordering from wholesalers. The system must be able to be used for individual locations to find products and parts at other Kool Dudes locations when necessary. 4. Provide reports for management, who may be at any location, of the status of all the above so they can order stock, hire and fire and make other management decision. Your RFP should use one or more guidelines that you will reference. You may be tempted to go overboard here so try to restrict your RFP to a reasonable size (say 1000 words maximum), less if possible. Remember that the less restrictions the better in an RFP so that the responders can come up with new ideas that you have not imagined so far. This also means your RFP will not contain much technical information about the requested system, but will contain information about your existing systems (the web site, unless you add to the specification). Your RFP should allow for a bespoke software development but it should also clearly be able to consider existing applications, solutions built from components, SaaS solution, other solutions and any combination of these. As you have learnt, Your RFP will contain: 1. The system description 2. Explanation of how you would evaluate proposals received 3. Explanation of how you would answer questions 4. Any other facts that would ensure proposals are useful to you and worth a supplier’s effort to respond to the RFP. Note there are many things missing from the above specification that you may wish to add to your RFP. A lot of your RFP will be details that you will need to make up, e.g. who to contact and how. You can use your own information or make up names and other data along the Kool Dudes theme.