**cs4473B/cs9551B**

**INDIVIDUAL TEMPLATE**

**Reading Summary and Questions and Answers**

**Rules – please note these carefully:**

* Submission filename MUST be: “**Last-name First-name” “Group”<id>\_”Chapter” (or reading) <id> (e.g., Blogs Joe\_Group 3\_Chapter 2)**
* This template must be used for ONLY ONE chapter (or reading) at a time. For the second item of reading, if any, please use another copy of this template.
* **PLEASE compress multiple files (one file/chapter) using standard (e.g., Windows) compression that can be uncompressed on a Windows machine with simple clicks. Please do not use unusual/fancy compression tool; your template won’t be graded and you will be penalised.**
* **Submission to be done on OWL as per the deadline set.**
* **EMAIL SUBMISSION WILL NOT BE ACCEPTED AND WILL INCUR PENALTY.**
* **Use of template is mandatory**: submission of text made outside the template will result in a zero mark.
* **Altering this template (meta-items) will incur a penalty.**
* Submission format is **MS WORD only** **(not PDF)**. PDF files will incur a penalty.
* The source of the answer captured from the chapter must be accurate or closest to the context (e.g., Chapter #, Section or sub-section #, page number, etc.).
* The question must be properly and fully specified, and easily understandable. Cryptic text or grammatical errors will be penalised – no appeals accepted.
* The question must not be so general or non-specific to apply to non-specific answers.
* The answer (text identified from chapter) must be an important point, not something trivial or highly specific to a context.
* Answer from the book must be copied “as-is” from the text (**reference** to chart/table/figure/etc., in the reading is permitted and encouraged). Cryptic text or grammatical errors will be penalised – no appeals accepted.
  + *If in doubt about the quality or acceptability of your text, you will have one chance to have it reviewed by the instructor for “live” feedback. No emails please.*
* Assessment of your submitted template will be done sometime before the end of the term. Please do not expect marks of your submission every week!
* There will be no “remake” of the summaries (e.g., for improving the mark). It is a one-time submission and assessment. Late submissions will not be accepted.

**Part 1: Summary**

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| **Group member’s name**: Yulun Feng **Group No**: 2 |
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| Please write the **full reference** of the reading in the WHITE box below.   * + Chapter #, Chapter title (or article title if appropriate).   + Book title   + Author(s)   + Publisher   + Book edition, Year of publication   (Example shown below; overwrite on that space.) |
| Chapter 7: Requirements elicitation  *Software Requirements, 3rd ed.*  Weigers and Beatty  Microsoft, 2013 |
| Please write in the WHITE box below an abstract of the reading in **50-75 words**. |
| This chapter highlights the limitations of traditional document-based approaches to requirements management and introduces the benefits of using specialized tools for requirements development (RD) and management (RM). It discusses the challenges faced when managing requirements in documents, such as difficulty in keeping documents synchronized and communicating changes, and proposes RD and RM tools as solutions. These tools aid in eliciting, documenting, managing changes, and tracking the status of requirements more efficiently. The chapter emphasizes that while tools can enhance efficiency, they do not replace the need for a well-defined process and trained personnel. |

**Part 2: Questions, Answers and Comments**

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| Please create **THREE** important **Question-Answer-Comment sets** from the given reading:   * State your question succinctly. Add more lines as needed. * State <LOCATION of answer in the book (e.g., section #>: <as-is answer EXACTLY from the book> ; please indicate whether a hardcopy or ebook ‘cause the page numbers are not the same. * State your Comment related to the answer; this is mandatory.   **NOTE: The following will be penalised: a cryptic question; inaccurate copying of the answer; a trivial point; “too specific or small detail”; missing or trivial comment; etc.. Informative, insightful, or key concept/idea, question, answer, and comment are expected.**   * + Actual chart/table/figure/etc. must NOT be given in the text below, but you may site its location in the reading by giving precise specification. |
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| **(1)**  **QUESTION: What are the main challenges associated with managing requirements using traditional document-based approaches?**  **ANSWER:**  **<ebook><P503> “We pointed out that these deliverables are just containers for sets of requirements information; they need not be traditional word-processing documents. Although still widely used, a document-based approach to developing and managing**  **requirements has numerous limitations, including the following:”**  **“Requirements development (RD) tools and requirements management (RM) tools provide solutions to all of these limitations. RD tools can help you elicit the right requirements for your project and judge whether those requirements are well-written. RM tools help you manage changes to those**  **requirements, track status, and trace requirements to other project deliverables.”**  **COMMENT (also include where possible: an \*example\*, citation, justification, etc. -- to support your comment).**  **This question is crucial because understanding the limitations and challenges of traditional methods is the first step towards improving the requirements management process. Document-based approaches can lead to issues such as difficulties in maintaining consistency, tracking changes, and ensuring all stakeholders have access to the latest requirements. Identifying these challenges helps in recognizing the need for adopting more sophisticated tools and methodologies that can address these issues effectively.** |
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| **(2)**  **QUESTION: How do specialized tools for Requirements Development (RD) and Requirements Management (RM) improve the process of managing software requirements?**  **ANSWER: <ebook><P506 – Modelling Tools>”** **Specialized software modeling tools facilitate iteration by dragging along connected arrows and labels whenever you move a symbol in the diagram; general-purpose drawing tools might not provide that capability.”**  **COMMENT (also include where possible: an \*example\*, citation, justification, etc. -- to support your comment):**  **This question is important because it focuses on the solutions to the challenges posed by traditional methods. Specialized RD and RM tools offer functionalities like version control, traceability, and collaborative features that are not easily managed with document-based approaches. Understanding how these tools can improve the process highlights the practical benefits of adopting them, such as increased efficiency, improved accuracy, and enhanced collaboration among stakeholders.** |
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| **3)**  **QUESTION: Why is it essential to complement RD and RM tools with a well-defined process and trained personnel?**  **ANSWER: <ebook><P504>”** **Teams working on large projects will benefit from commercial requirements engineering tools. None of these tools replaces a defined process that your team members follow to develop and manage their requirements.”**  **COMMENT (also include where possible: an \*example\*, citation, justification, etc. -- to support your comment):**  **Highlighting the necessity of integrating RD and RM tools with a well-defined process and trained personnel is fundamental because tools alone cannot guarantee project success. The effectiveness of these tools is maximized when they are used within the framework of a robust process and by individuals who are proficient in their functionalities and best practices for requirements management. This integration is essential for ensuring that the tools are not just used, but used effectively, to facilitate a comprehensive, cohesive approach to managing requirements. It underscores the idea that technology must be complemented by human expertise and procedural clarity to truly transform the requirements management landscape, fostering an environment where projects can be executed with higher efficiency, accuracy, and stakeholder satisfaction.** |