**CS4473B/CS9551B**

**Requirements Engineering**

**GROUP TEMPLATE**

**Reading Summary and Questions and Answers**

**Rules – please note these carefully:**

● Submission filename MUST be: **“Group”<id>\_”Chapter” (or reading) <id> (e.g., Group 3\_Chapter 2)**

● This template is similar in style to the Individual template.

o However, there is a new section (Part 3) on capturing concepts, entities, relationships, etc., which would be handy for creating a domain model.

● Group deliberates over the Individual Templates from the group members and creates a Group Template that is the shared view of the group members. Source material can be from one or more Individual Templates, adapted, or entirely newly created by the group.

● Pay particular attention to the “Comment” section as this records the group’s thinking.

● **Submission to be done on OWL as announced.**

● Group Template will be assessed.

**Part 1: Summary**

| **Group No: 2** |
| --- |
| **List here the Group Members actually present in the class (absentees will be penalised):**  **Group Member** Name: Sihui He  **Group Member** Name: Chun Yang  **Group Member** Name: Yulun Feng  **Group Member** Name: Yuhan Zhang  **Group Member** Name: Yifei Zhang |
| Please write the **full reference** of the reading in the WHITE box below.  o Chapter #, Chapter title (or article title if appropriate).  o Book title  o Author(s)  o Publisher  o Book edition, Year of publication  (Example shown below; overwrite on that space.) |
| Chapter 17 – Validating the requirements  Software Requirements  Wiegers and Beatty  Microsoft  3rd Ed., 2013 |
| Please write in the WHITE box below an abstract of the reading in **50-75 words**. |
| ***Abstract*: Requirements validation is the fourth component of requirements development after Elicitation, Analysis, and Specification. It ensures requirements have all the desired properties of high-quality requirements. We could have formal and informal peer review to identify ambiguous requirements where the best-established formal peer review is called inspection. We have detailed workflows for the inspection; however, requirements review also have its own constraints. Prototyping and testing the requirement also helps team to find problems in the early stage.** |

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

| Please create **ONE** important **Question-Answer-Comment set**  as agreed by the **group** from the given reading.  · Source can be from Individual Templates or completely new.  · The key is in discussing the individual templates and agreeing upon a shared view by the group. Prioritise what your group considers as a key issue to put forward. |
| --- |
|  |
| For staff use only:  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **QUESTION (state your question such that the answer is what you captured from the source):**  **What distinguishes validation from verification?**    **ANSWER (as-is):**  <**ebook><Ch 17, Validation and Verification, #331> validation and verification are two different activities in software development. Verification determines whether the product of some development activity meets its requirements (doing the thing right). Validation assesses whether a product satisfies customer needs (doing the right thing). Extending these definitions to requirements, verification determines whether you have written the requirements right. Validation of requirements assesses whether you have written the right requirements: they trace back to business objectives.**    **YOUR COMMENT (also include where possible: an \*example\*, citation, justification, etc. -- to support your comment):**  **Validation and Verification are terms that are often conflated within the context of software development. However, they refer to distinct aspects of the quality assurance process. Validation is concerned with ensuring that the product aligns with the customer's needs and expectations. It is a process that evaluates if the final product is the 'right thing' by assessing its desirability to the customers. On the other hand, Verification is the process by which we check whether the product meets the specific requirements set out at the beginning of the development process. It answers the question of whether the product was 'built right' according to the predefined requirements and design specifications.** |
|  |

**Part 3: Elements of the Architectural Domain Model**

| Please list below, in bullet point form, ideas that capture noteworthy information regarding artefacts, operations, conditions, relationships (e.g., produced-by, used-in, acts-on, etc.) from the assigned reading (and possible other sources – identify these). This could then be a source of information for creating your domain model. |
| --- |
|  |
| * The inspection process * Participants   + The author of the work product and perhaps peers of the author   + People who are the sources of information that fed into the item being inspected   + People who will do work based on the item being inspected   + People who are responsible for interfacing systems that will be affected by the item being inspected * Inspection roles   + Author   + Moderator   + Reader   + Recorder * Inspection stages   + Planning   + Preparation   + Inspection Meeting   + Rework   + Follow-up * Requirements review challenges:   + Large requirements   + Large inspection teams   + Geographically separated reviewers   + Unprepared reviewers * Validating requirements with acceptance criteria:   + Acceptance criteria   + Acceptance tests |
|  |