**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** |
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| **List here the Group Members actually present in the class (absentees will be penalised):**  **Group Member** Name: Sihui He  **Group Member** Name: Yifei Zhang  **Group Member** Name: Yulun Feng  **Group Member** Name: Chun Yang  **Group Member** Name: Yuhan 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 27: Requirements management practices  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 management includes all activities that maintain the integrity, accuracy, and currency of requirements agreements throughout the project. There are four categories for requirements management activities: Version control, change control, Requirements status tracking and Requirements tracking. The chapter tells us what requirement attributes should be included and how do we track the requirement. It provides examples on how requirements were managed on an agile project and also gives use the reason why we should manage requirement.** |

**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. |
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| For staff use only:  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **QUESTION:**  **How do agile teams monitor their progress?**  **ANSWER (as-is):**  **<ebook><Chapter 27 Section “managing requirements on agile projects>**  **“Agile projects typically monitor their progress with an iteration burndown chart. The team estimates the total amount of work to do on the project, often sized in units of story points, which are derived from an understanding of the user stories in the product backlog. The story point total is thus proportional to the amount of effort the team must expend to implement the requirements. The team allocates certain user stories to each iteration based on their priority and their estimated size in story points. The team’s past or average velocity dictates the number of story-points the team plans to deliver in an iteration of a particular calendar duration.”**  **“The team charts the story points remaining in the product backlog at the end of each iteration. This total will change as work is completed, as current stories are better understood and re-estimated, as new stories are added, and as customers remove pending work from the backlog. That is, rather than monitoring the count and status of individual functional requirements or features, the burn down chart shows the total work remaining to be done at a specific time.”**    **YOUR COMMENT (also include where possible: an \*example\*, citation, justification, etc. -- to support your comment):**  **During my coop internship, the dev team would have a sprint planning meeting at the end of each sprint. We could plan the new sprint story points based on the previous velocity and also the number of available developers. We also would have a refining meeting to draft the implementation tickets for user story, as well as the implementation details for each implementation ticket. Then we would estimate the time effort for each implementation ticket, then we have the estimated time for new features and we reflect this estimation on our roadmap calendar chart.** |
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**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. |
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| **Requirements Management**   * **Version Control**   + **Version identification scheme**   + **Individual requirement version tracking**   + **Requirement sets version tracking** * **Change Control**   + **Changes proposal**   + **Impact analysis**   + **Decision making**   + **Individual requirements update**   + **Requirement sets update**   + **Plans update**   + **Requirement volatility measurement** * **Requirements Status Tracking**   + **Possible requirement statuses definition**   + **Requirement status record**   + **Status distribution tracking** * **Requirements Tracing**   + **Requirement link definition**   + **System elements link definition**   **Requirement attributes:**   * + **Date the requirement was created**   + **Current version number of the requirement**   + **Author who wrote the requirement**   + **Priority**   + **Status**   + **Origin or source of the requirement**   + **Rationale behind the requirement**   + **Release number or iteration to which the requirement is allocated**   + **Stakeholder to contact with questions or to make decisions about proposed changes**   + **Validation method to be used or acceptance criteria**   **Requirement status:**   * + **Proposed**   + **In progress**   + **Drafted**   + **Approved**   + **Implemented**   + **Verified**   + **Deferred**   + **Deleted**   + **Rejected**   **Requirement issues:**   * + **Requirement question**   + **Missing requirement**   + **Incorrect requirement**   + **Implementation question**   + **Duplicate requirement**   + **Unneeded requirement** |
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