

# cs4473B/cs9551B – Requirements

## Topic-Assignment

### Group assignment:

This is a group assignment. The groups are the same as the project groups already formed.

One of the members (called “Liaison”) will be identified by the group for liaising with the teaching staff for group matters. This includes such issues as:

- Progress reporting.
- Submission of the assignment.
- Group matters.

### Task:

Goal: The goal of this assignment is to develop expertise on a topic of choice in RE.

The group members are to collaborate among themselves on their chosen topic, create powerpoint slides, and present these to the class (or to the instructor) as per the schedule.

**(Maximum presentation time: (provisionally) 30 mins (to be verified by the actual presentation schedule), which includes context switching and Q and A)**

The groups are empowered to find their own topic that adheres to the guidelines given below. If in doubt about the topic, please consult with the instructor for quick feedback. Duplicate topics (or something similar to that already chosen by another group) will not be permitted – First come, first served!

A template will be posted and made available for the groups to log their topics.

- Ensure that the subject matter focuses on “requirements” as the primary focus.
- One way to test this (though may not be fool-proof) is to write down the title of your topic – it **MUST** contain the term “requirement(s)” in the title.
- If “requirement(s)” is on the fringe then this topic will be rejected by the Prof. whose decision is final.

### Hints for the assignment:

- Group to decide on the topic of interest.
- Gather as much **relevant material** as possible from **diverse sources: book chapters, research papers, websites, etc.**
- Identify **salient points** (theory knowledge and principles).
- **Identify examples** (practical knowledge).
- Ensure **significant coverage** of the subject matter by examining the various sources.
- **Divide the subject matter logically** among the group members.
- **Examples of GOOD partitioning – by technical content:**
  - i) Identify different **stages** of requirements processing; divide the stages among the group members.
  - ii) On **Quality Attributes** (QA) related to requirements; divide QA among the group members.
  - iii) **In stakeholder usage of software requirements.** Divide different perspectives of usage (e.g., requirements engineering, architecting, testing, change management, etc.) among the group members.

**Example of BAD partitioning – by assignment tasks:** One person does the literature search; one person identifies requirements from various sources; one person creates powerpoint slides.

In other words, partition by the “technical content” as described above and **NOT by the “assignment tasks” you have to do.**

- **Develop powerpoint slides.**
  - Title slide expected
  - All slides should be numbered “i of N”.
  - Please make sure to include a slide of a **Table** showing **the logical partitioning of the work among the group members: *who championed which technical part?***
    - Verbal-only information will be penalised as traceability is required later on.

Example:

Partition No.	Content partition description	Name of the Responsible Member
1		
2		
3		
4		
5		

- Do **\*not\*** write in cryptic sentences – such slides will not be useful in the long run. **Write in more complete sentences.**
- Give relevant **examples** on the subject matter.
- Do **\*not\*** include fancy, glittering, slide designs – keep them simple, please. Black text on transparent (white) background. Multi-coloured text is OK, e.g., to highlight certain terms.
- Use **\*animation\* to make your point expressive**, not to show off the fancy slides.
- Create **\*as many slides as necessary\*** to do your task well. **There is no limit** on the number of slides you can have. However, **your presentation must respect the time constraint**; thus, you can selectively present particular slides from your set.
- Include **citations** in the slides, e.g.: [Bloggs, 2011], [Bloggs, et al., 2009], [Bloggs and Winter 2008]. Avoid citation such as [1], [4], etc. as they do not convey the authors' identity and year of publication.
  - Include the reference corresponding to the citation at the bottom of the slide.
- Also include the **list of references** at the rear of the presentation. Please make sure that the references are in full detail. Cryptic or incomplete references will be penalised.
  - A list of website-only references will be penalised. It is expected that the group will search, read, and extract content from **scholarly published articles and books**.

### **Evaluation criteria:**

**DEADLINE for TOPIC Selection: please see the course schedule.**

- Topic selection and confirmation: **Minus 10% of assignment for delay.**
- Logical **partitioning** of the subject matter: **Up to Minus 50% for bad partitioning as follows:**
  - OK (-0%); Minor issues (-10%); substantial (-25%); no partitioning (-50%)  
[Prof's decision is final]
- Equitable **presentation**-workload sharing: **Up to Minus 30% for non-equitable presentation-workload sharing as follows:**
  - OK (-0%); substantial (-20%); no sharing (-30%)
  - Divide the presentation time equitably!

### **Powerpoint slides: 70%**

- Diversity of the material used.
- Relevance of the material used.
- Theory knowledge and principles identified and **EXPLAINED** in the slides..

- **Examples given in the slides** to support the theory .
- Coverage of the subject matter **in conjunction with** the level of detail (i.e., broad and deep).
- Detail-quality of sentences in the powerpoint slides. E.g., cryptic sentences will be marked negatively!
- Fancy, glittering, slide designs will be marked negatively.
- Appropriateness of the font size; small fonts will be marked negatively. Use size 18-28.
- Too much clutter on a given slide will be marked negatively.
- Inclusion of **citations in the slides** where appropriate (see examples given earlier).
- Inclusion of appropriate and complete **references at the rear** of the set of slides.
- Spelling and grammar mistakes will be marked negatively.

#### **Evaluation criteria (Presentation): 30%:**

- Demonstration of expertise on the subject matter.  
(Power of explanation of the concepts and principles)
- Material coverage.
- Clarity of speech.
- Correct use of grammar in speech.
- Q & A

#### **Deadline & Submission:**

- **Date:** as scheduled – **please check the course schedule and OWL submission specs.**
- **Submission on OWL. Zero marks for this assignment if slides are not submitted even if the presentation is made.**
- ONE zipped folder, as follows:
  - Folder name: <Group id>\_<TOPIC-in-brief> (e.g., “Group 1\_RE and Agile”)
  - Folder content as follows:
    - **Powerpoint slides** – in ppt format
    - **In a sub-folder:** Actual literature (copies of papers, web pages (converted into PDF – with web address), etc.). If a non-class-required text book was used for some information then a scan of the relevant pages from that book (converted to PDF).