

Swinburne University of Technology

School of Science, Computing and Engineering Technologies

Contribution Document

Subject Code: SWE30003

Unit Title: Software Architectures and Design

Assignment number and title: 1, Requirements

Due date: 7th April 2024

Tutorial Day and Time: Wednesday 6.30pm

Project Group: Wed 6.30pm – Group 3

Tutor: Mandeep Dhindsa

1. Time spent (hours) and contribution description

1.1 Fill in the time spent on each significant work item in the following table:

Work Item	Jade Hoang	Henry Le	Thanh Nam Vu	Dang Khoa Le
Introduction	1 hour	0.3 hour		0.5 hour
Project Overview	3 hours			2 hours
Problem Domain	2 hours	0.25 hour		1 hour
Domain Model	1.5 hour	1.5 hour	2 hours	
User Tasks – Make reservation	0.5 hour	1 hour	0.75 hour	1.5 hours
User Tasks – place order online	0.5 hour	0.5 hour	0.75 hour	0.5 hour
User Tasks – Inform order information to kitchen	0.5 hour	0.5 hour	0.75 hour	0.5 hour
User Tasks – handle payment	0.5 hour	0.75 hour	0.75 hour	1 hour
User Tasks – generate receipt/invoice	0.5 hour	1 hour	0.75 hour	0.5 hour
User Tasks – provide ordered menu item statistics	0.5 hour	0.75 hour	0.75 hour	0.25 hour
User Tasks – provide online menu	0.5 hour	1 hour	0.75 hour	1 hour
User Tasks – arrange delivery	0.5 hour	1 hour	0.75 hour	1 hour
Workflows	1.5 hour	1 hour	1.5 hour	1.5 hours
Quality attributes	1.5 hour	0.5 hour		2 hours
Other requirements	2 hours			0.5 hour
Validation	0.5 hour	0.75 hour	1 hour	0.5 hour
Verifiability	1.5 hour			

1.2 Description of contributions (each member provides a brief description of their contributions):

Jade Hoang:

- Edit and refine the Project Overview, Introduction, and Problem Domain.
- Identify Domain Entities for the Domain Model.
- Collaborate with team members to define 8 user tasks.
- Collaborate with members and refine the Domain Model.
- Refine the descriptions/example solutions of the 8 User Tasks.
- Contribute opinions to the Workflow and collaborate on editing them using Lucidchart.
- Identify 5 Quality Attributes and provide descriptions and justify each.
- Identify various Other Requirements, including Product and Design level requirements.
- Contribute to writing the Validation section.
- Edit and contribute to the Verifiability section.

Henry Le:

- Initiate Introduction & Project Overview ideas.
- Identify possible actors for Problem Domain section.
- Create Lucidchart for Workflow and Domain Model creation.
- Identify some of the User Tasks related to case study.
- Came up with a solution for each providing sub-task.
- Brainstorming CRUD check table task and entity.
- Identify some of the most important Quality Attributes.
- Refining document.
- Review and finalise document.

Thanh Nam Vu:

- Contribute idea to User Tasks.
- Using Lucid Chart for visualisation of Workflows and Domain Model
- Participate in creating CRUD check table for Validation.
- Refine document.
- Collaborating in all parts giving constructive feedback.

Dang Khoa Le:

- Initialise the first Introduction section idea.
- Identify Domain Vocabulary, Goals, Assumptions and Constraints sections in Project Overview at initial stage. Discuss and contribute to the eventual refinement.
- Identify key Pain points and Actors in Problem Domain.
- Identify key Domain Entities in Domain Model at the initial stage.
- Construct the first draft for all User Tasks, contributed towards Subs-tasks' problems and solutions. Discuss and refine until completion.
- Collaboratively support the Workflow task on lucid, integrated to a real cafe-restaurant business concept with actual experience.
- Identify Quality Attributes, refine and finalise idea. Collaboratively discuss with team members.
- Discuss and support ideas for Other Requirements section.
- Contribute and refine CRUD tables, labelling 'Deleted' entries.
- Refine document's ideas and usage of language.

2. Evidence of collaboration / teamwork on each significant work item (e.g., discussions, mutual revisions and reviews, etc.):

Discussion on Discord group chat: We mainly use Discord for our discussions, and we hold team meetings on Microsoft Teams. The images below show some of the discussions our team had about refining the workflow on Lucidchart.

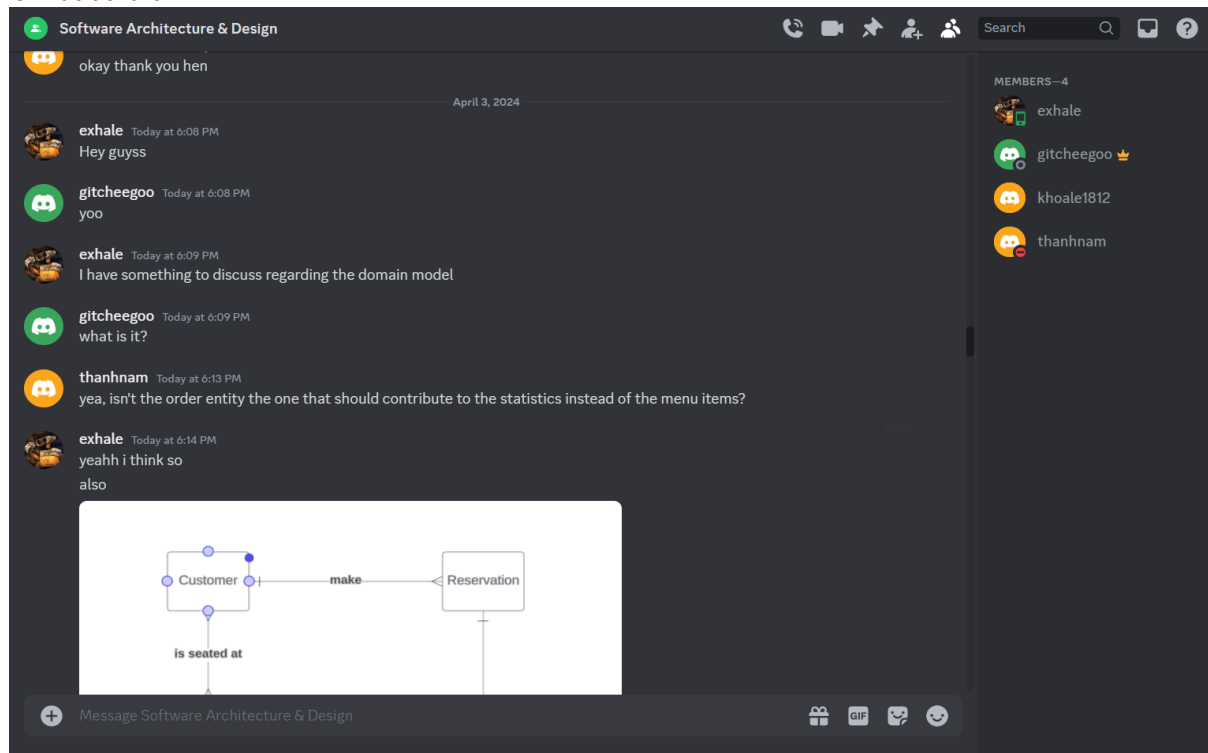


Figure 1 – Discord group chat discussion (1)

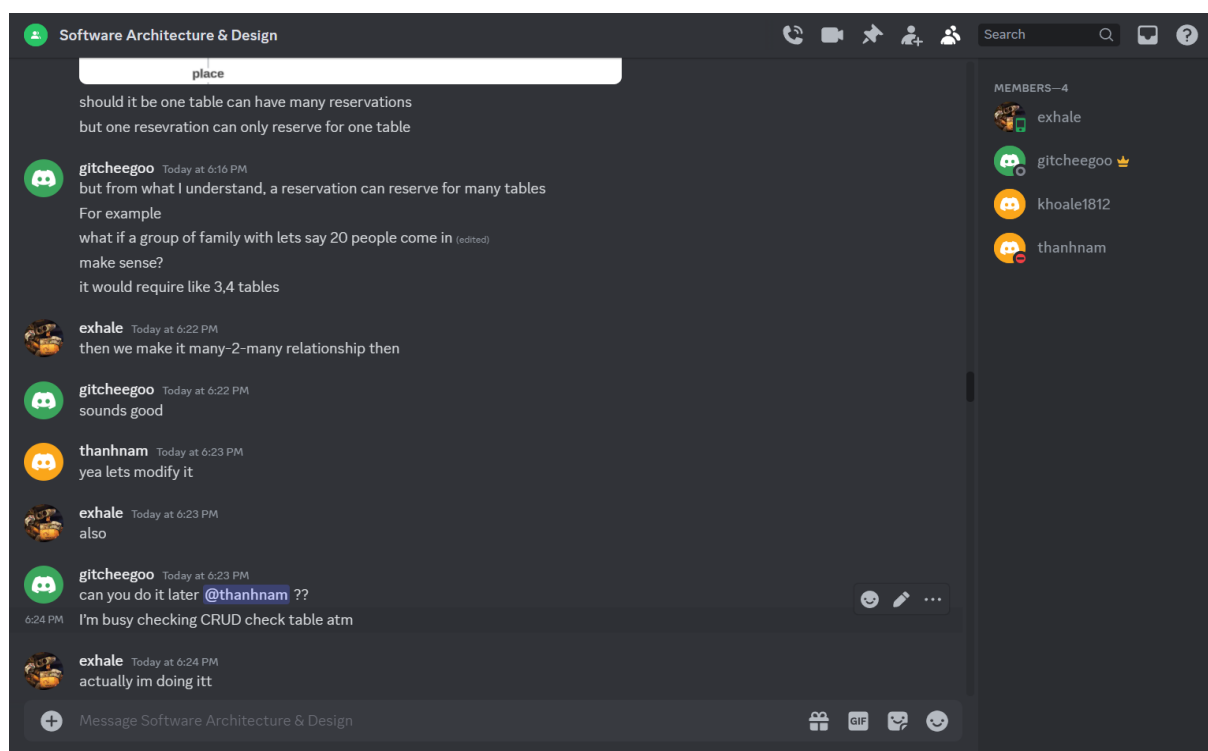


Figure 2 - Discord group chat discussion (2)

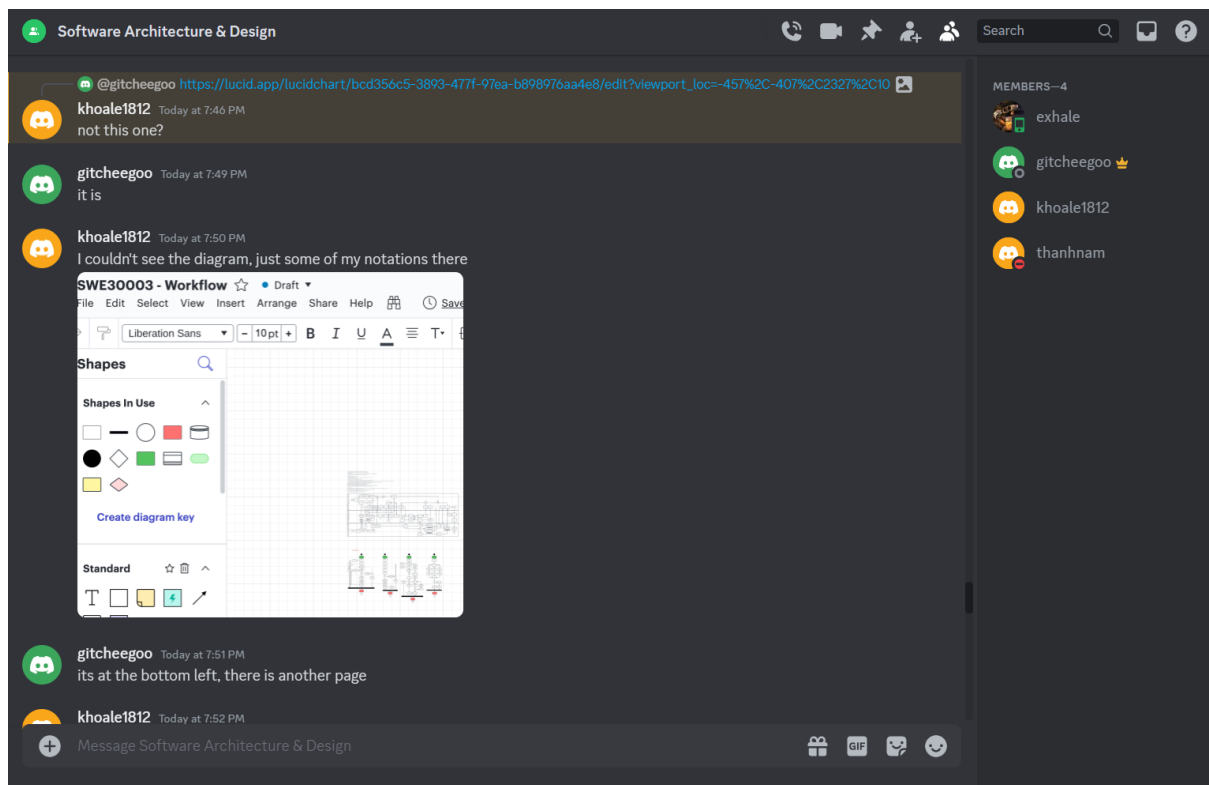


Figure 3 - Discord group chat discussion (3)

OneDrive editing history: the image below shows that Assignment 1's System Requirements Specification (SRS) document currently has nearly 200 versions. Every team member actively contributes to its evolution. Each member inserts their assigned tasks, which are then expanded upon by others who provide additional ideas and insights to enhance the document. Every section (e.g., User Tasks, Project Overview, Workflow, Validation, etc.) undergoes gradual review and discussion by all members.

Name	Modified	Modified By	File size	Sharing	Activity
Assign1_Group3.docx	3 hours ago	JADE HOANG	229 KB	Shared	
Assign1_Group3.pdf	Yesterday at 10:43	JADE HOANG	438 KB	Shared	
Assignment 1 - Sample Submission.pdf	March 9	JADE HOANG	555 KB	Shared	
Assignment 1 Marking Guidelines-5.pdf	March 9	JADE HOANG	114 KB	Shared	
Assignment 1 - sample-ID-anonymous.pdf	March 9	JADE HOANG	761 KB	Shared	
Case Study Restaurant Information System...	March 9	JADE HOANG	54.9 KB	Shared	
Assignment 1-SRS-4.pdf	March 9	JADE HOANG	213 KB	Shared	

Figure 4 – OneDrive Assignment 1 version history

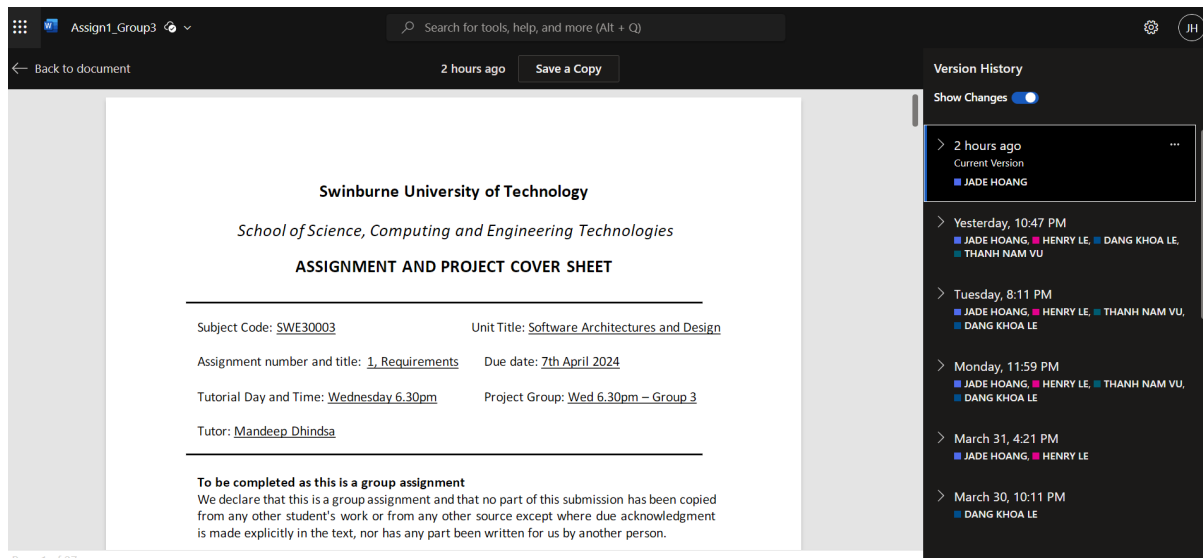


Figure 5 – Assignment 1 SRS document's version history

Lucidchart: The image below indicates that all members have access to the Lucidchart diagram's link, and everyone is actively making changes to both the domain model and workflow diagrams.

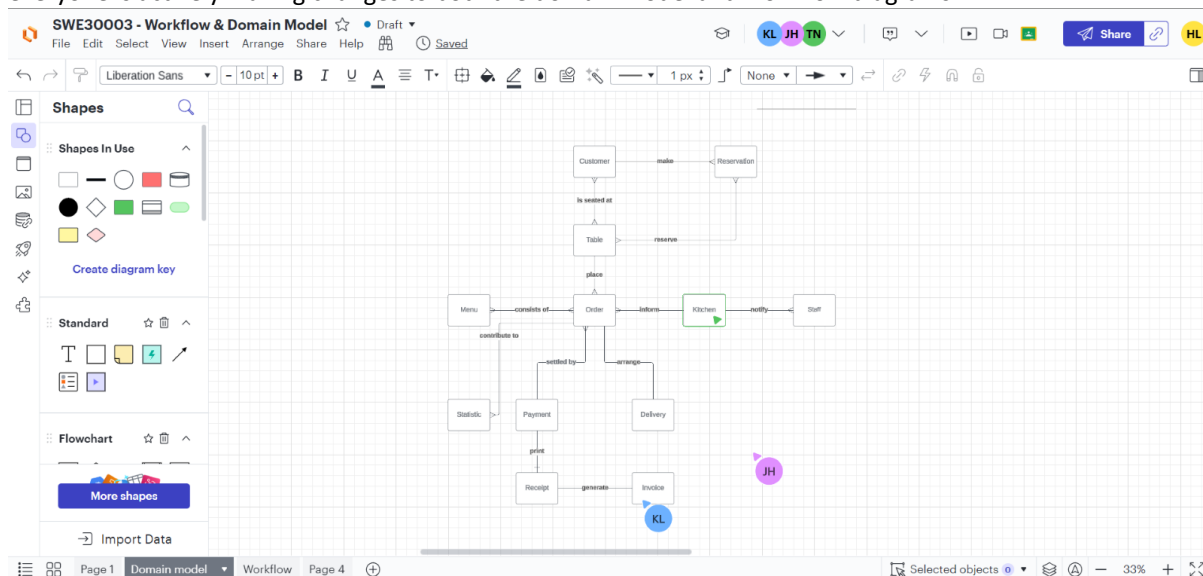


Figure 6 - Lucidchart collaboration

Microsoft Teams meeting: for verbal discussion, we use Microsoft Teams.

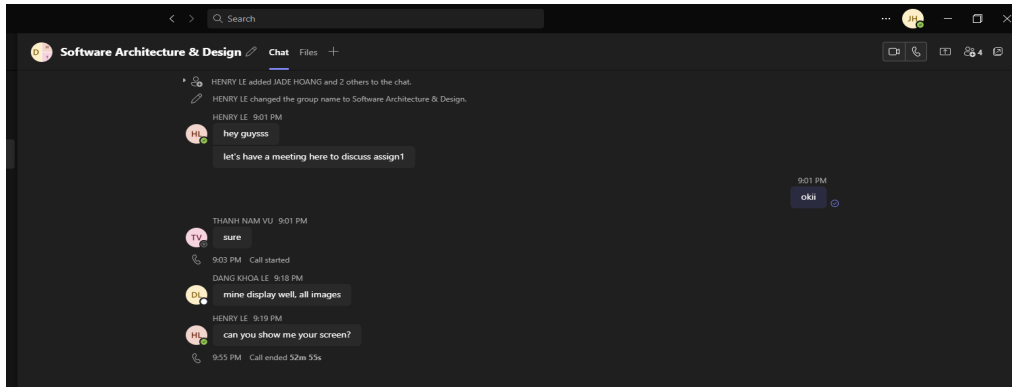


Figure 7 – Microsoft Teams team meeting's chat

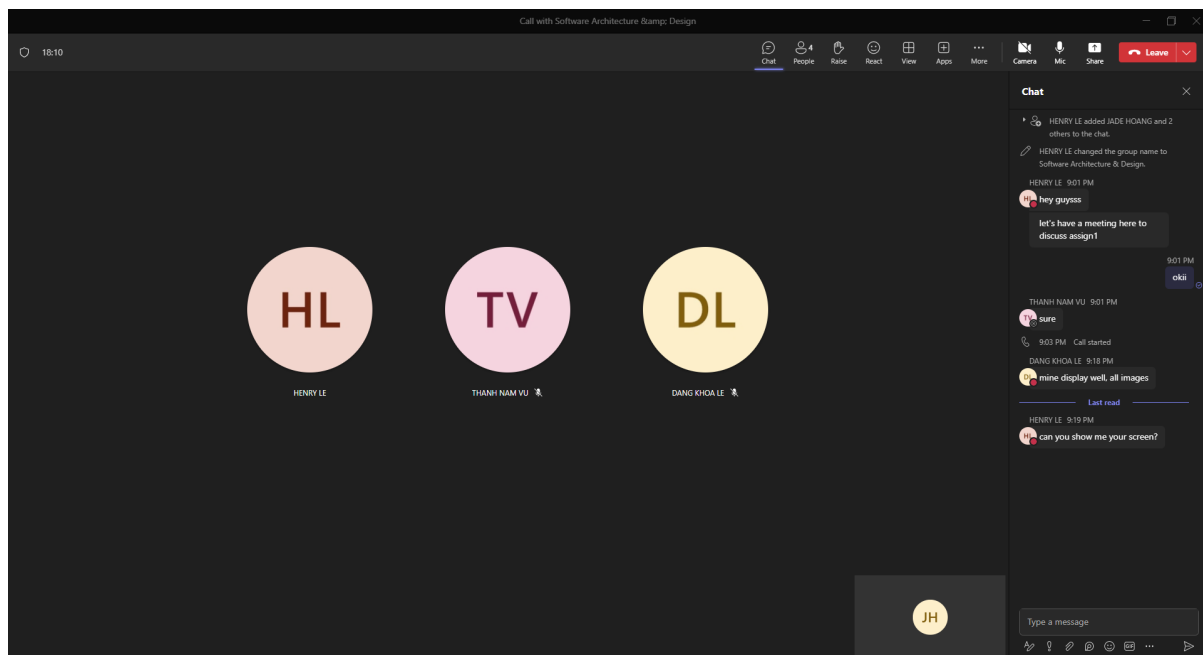


Figure 8 – Microsoft Teams team meeting for discussion and review

3. Signed by all members:

ID Number	Name	Signature
<u>103795587</u>	<u>Jade Hoang</u>	<u>Jade Hoang</u>
<u>103795561</u>	<u>Henry Le</u>	<u>Henry Le</u>
<u>103541023</u>	<u>Thanh Nam Vu</u>	<u>Thanh Nam Vu</u>
<u>103844421</u>	<u>Dang Khoa Le</u>	<u>Dang Khoa Le</u>