Industry Mentors

Names

Team Members

Names

SCSS-TCD SWENG PROJECT project Name

Client (Company Name)

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# First Sprint & Project Introduction (week 4)

## Background & Problem Statement

Describe the context of the project: introduce the client’s company and its activities.

Clearly outline the problem statement, the purpose of the system and how does this project fit into its broader context.

You may also introduce your industry mentors, mentioned their roles, expertise etc.

## Objectives & Goals

Describe how will the successful completion of the project assist the client/the issue identified/the area/etc.

Describe what will the project deliver and comment on the impact the project will have.

# Project Scope

## Project Deliverables & Project Boundaries

Describe the deliverables of the project.

Outline what is *in scope* and *out of scope* of the project.

## System Design

Provide a high-level overview of how the system will be implemented: the tools, frameworks, languages, libraries, etc. that will be used.

# Requirements

## Product Backlog

Provide the product backlog: the list of requirements the product must achieve.

All the software requirements should be listed in a prioritised manner.

# Project Planning

Provide a high-level description of the four sprint of the project and diagrams for teach scrum sprints

For each sprint clearly indicate the overall objectives of the sprint, the start and end dates of the sprint.

Also, provide dates for the following meetings: sprint planning, scrum, sprint review, sprint retrospective and backlog refinement.

# Project Organisation

## Staff

Provide a staff table listing all the team members, their prior experience in projects and their technical skills.

the initial list of the team members (including their prior experience in projects and prior technical skills) For each sprint staff chart outline what each member of the team will be working on.

## Staff Chart

Provide scrum staff charts for each scrum sprint outlining the following: Product owner; Scrum master; and team members.

# Project Management with GitHub

Create a Kanban board in GitHub to manage, organise and assign tasks.

Translate the product backlog into tasks and add the tasks to the Kanban board.

Provide screen shots of the GitHub Kanban boards for your project.

# Development

## Implementation

Provide a link to the GitHub and Docker Hub (if applicable) repos.

**Note:** Add the demonstrator account: “SwEng-projects”; to the project’s GitHub repo

## Continuous Integration and Delivery (CI/CD)

Apply CI/CD pipelines.

Create suitable and sufficient unit tests that will be triggered using the Continuous Integration pipeline (CI).

You should also apply Continuous Delivery concept when creating a product release. You need to add screenshots of the workflow reports from your GitHub repo. The demonstrators will be able to access and check your workflow files.

# Second Sprint (week 6)

# Requirements

## Updated Product Backlog

Provide the initial product backlog and the updated product backlog.

Clearly describe and discuss how the changes in the refined product backlogs were: 1. Identified; 2. handled; 3. what impact they had.

# Planning

## Sprint Planning

Clearly indicate the overall objectives of this sprint.

Provide the schedule for the sprint indicating the start and end dates of the sprint and for the following meetings: sprint planning, scrum, sprint review, sprint retrospective and backlog refinement.

## Sprint Backlog

Outline the requirements that were implemented in this sprint.

# Project Organisation

## Staff Chart

Provide sprint staff chart outlining the following: Product owner; Scrum master; and team members.

# Project Management with GitHub

Provide Screen shots of the GitHub Kanban board that illustrate:

- the tasks assigned to each person during this sprint.

- the status of the tasks for this sprint.

# Development

## Implementation

Provide a link to the GitHub and Docker Hub (if applicable) repos.

Provide all GitHub commit logs illustrating how the work was divided applying branching.

## Continuous Integration and Delivery (CI/CD)

List the test cases in CI workflow besides the implementation of the Continuous Delivery workflow for this sprint.

Provide screenshots of the workflow reports from your GitHub repo for this sprint.

Note: The demonstrators will access and check your workflow files.

# Sprint Review

The Scrum master and team members have to meet at the end of the sprint and answer the following questions:

- How far is the team from the final product?

- How did the sprint outcome meet the stakeholder expectation?

- Are there new tasks to be added to the project’s product backlog?

# Sprint Retrospective

The Scrum master and team members have to meet at the end of the sprint and EACH team member has to answer the following questions:

- What lessons did you learn to improve the development process in future sprints?

- What actions will be taken to improve the development process?

Get the clients feedback on the actions to improve the development process and report it here.

# Third Sprint (week 8)

# Requirements

## Updated Product Backlog

Provide the initial product backlog and the updated product backlog.

Clearly describe and discuss how the changes in the refined product backlogs were: 1. Identified; 2. handled; 3. what impact they had.

# Planning

## Sprint Planning

Clearly indicate the overall objectives of this sprint.

Provide the schedule for the sprint indicating the start and end dates of the sprint and for the following meetings: sprint planning, scrum, sprint review, sprint retrospective and backlog refinement.

## Sprint Backlog

Outline the requirements that were implemented in this sprint.

# Project Organisation

## Staff Chart

Provide sprint staff chart outlining the following: Product owner; Scrum master; and team members.

# Project Management with GitHub

Provide Screen shots of the GitHub Kanban board that illustrate:

- the tasks assigned to each person during this sprint.

- the status of the tasks for this sprint.

# Development

## Implementation

Provide a link to the GitHub and Docker Hub (if applicable) repos.

Provide all GitHub commit logs illustrating how the work was divided applying branching.

## Continuous Integration and Delivery (CI/CD)

List the test cases in CI workflow besides the implementation of the Continuous Delivery workflow for this sprint.

Provide screenshots of the workflow reports from your GitHub repo for this sprint.

Note: The demonstrators will access and check your workflow files.

# Sprint Review

The Scrum master and team members have to meet at the end of the sprint and answer the following questions:

- How far is the team from the final product?

- How did the sprint outcome meet the stakeholder expectation?

- Are there new tasks to be added to the project’s product backlog?

# Sprint Retrospective

The Scrum master and team members have to meet at the end of the sprint and EACH team member has to answer the following questions:

- What lessons did you learn to improve the development process in future sprints?

- What actions will be taken to improve the development process?

Get the clients feedback on the actions to improve the development process and report it here.

# Fourth Sprint (week 12)

# Requirements

## Updated Product Backlog

Provide the initial product backlog and the updated product backlog.

Clearly describe and discuss how the changes in the refined product backlogs were: 1. Identified; 2. handled; 3. what impact they had.

# Planning

## Sprint Planning

Clearly indicate the overall objectives of this sprint.

Provide the schedule for the sprint indicating the start and end dates of the sprint and for the following meetings: sprint planning, scrum, sprint review, sprint retrospective and backlog refinement.

## Sprint Backlog

Outline the requirements that were implemented in this sprint.

Provide the list of tasks arising from the sprint backlog that were added to the Kanban board.

# Project Organisation

## Staff Chart

Provide a sprint staff chart outlining the following: Product owner; Scrum master; and team members.

# Project Management with GitHub

Provide Screen shots of the GitHub Kanban board that illustrate:

- the tasks assigned to each person during this sprint.

- the status of the tasks for this sprint.

# Development

## Implementation

Provide a link to the GitHub and Docker Hub (if applicable) repos.

Provide all GitHub commit logs illustrating how the work was divided applying branching.

## Continuous Integration and Delivery (CI/CD)

List the test cases in CI workflow besides the implementation of the Continuous Delivery workflow for this sprint.

Provide screenshots of the workflow reports from your GitHub repo for this sprint.

Note: The demonstrators will access and check your workflow files.

# Sprint Review

The Scrum master and team members have to meet at the end of the sprint and answer the following questions:

- How far is the team from the final product?

- How did the sprint outcome meet the stakeholder expectation?

- Are there new tasks to be added to the project’s product backlog?

# Sprint Retrospective

The Scrum master and team members have to meet at the end of the sprint and EACH team member has to answer the following questions:

- What lessons did you learn to improve the development process in future sprints?

- What actions will be taken to improve the development process?

The team should get the clients feedback on the actions to improve the development process and report it here.