PA0 – GROUP REGISTRATION & TOOLS SETUP

Elements of Software Engineering

23TT1

Total score: 30 points

This is a teamwork assignment.

Group registration

Deadline: 22/10/2025

You are asked to form groups of 3-5 students each and to register your group by filling in the registration form using the provided Google Sheet via the link below.

You need to specify your group name and group leader. The first person on the form is supposed to be the group leader.

You need to specify student id, full name, and email address of each member in your group.

Link of Google Sheet: on Moodle

Project proposal

Deadline: 22/10/2025

Discuss within your group to propose a software project that your group will be working on. It is highly recommended that the project be focused on developing a mobile or Web application. The product preferably has interesting features addressing rea-user's needs or applying advances in AI such as generative AI. Your app should not be too large (more than 50 screens or functions) or too small (less than 6 screens or functions).

Write a description of your project in 1 page, which includes the following information:

- Team members.
- Introduction: briefly describe your idea and reason why it is worthy to do.
- Target users and environments: who are your app's users, what environments they will use (devices, OS, Web, etc.)
- Key features: list the key features for the app.

You may talk to the instructor or TAs so that they can provide you suggestions or feedback on your proposed project. TAs will review your proposal and approve or suggest any changes to your project.

Tools setup

Deadline: Deadline: 22/10/2025

One of the main goals of this project assignment is to help you practice teamwork for professional software development. We will assess and evaluate your effectiveness in team collaboration. Everyone is required to work closely with others in the group to deliver results. And we will use tools to monitor and assess each group's teamwork performance.

You are required to use the following tools:

- Moodle: used for posting and submitting assignments.
- Facebook group: used for general notifications, class discussions, and questions/answers. This group includes everyone from both classes. Please join the group. If you are NOT using Facebook, please let us know so that we can have an alternative way of notifying you.
- Slack (or another similar tool such as MS Teams or Discord): used for discussions and interactions among group members for each project.
    - TAs will create a Slack project and add all students to this project.
    - There will be a general channel for everyone, and it will be used for general project discussions.
    - Each group will have a channel that is linked to Trello. Any updates from Trello will be updated in this channel. Group members must use this channel to discuss their project.
    - Slack has applications on desktop and mobile, please open the app and check it frequently.
- JIRA (or another similar tool like Azure Boards): each group will have one board. Tasks are organized into sprints.
- Bitbucket, github, or another source control tool: used to store source code and documentations. Each group will be belonging to a team on the repository and has the following folders:
    - /src: used to store source code
    - /docs: used to store documentations, which has the following folders
        - management: storing planning documents, reports (weekly report, project status report, etc.)
        - requirements: storing all requirements, including vision document and use cases
        - analysis and design: storing all analysis and design related documents, including software architecture document, UML models, UI design
        - test: storing all test documents such as test plan, test cases, test reports
    - /pa: including subfolders to store submissions. Each subfolder contains one PA submission.
- TAs will help setup these tools during the first few lab sessions.

Important note: the use of tools to support teamwork is crucial for project success. Thus, using tools effectively is an important criterion for grading. Everyone is required to use the tools chosen by the team regularly.

Project Schedule

The project will follow elements of both RUP and Scrum. It is organized into 5 sprints, 2 weeks each. The following is the overall schedule for the project in this course:

Phase (RUP)	Sprint (Scrum)	Start	End	Assignment	Main objectives
Inception	1	14/10	27/10	PA0, PA1	Project proposal, initial requirements
Elaboration	2	28/10	10/11	PA2	Detailed requirements and initial design.
Elaboration	3	11/11	24/11	PA3	Detailed design and test planning
Construction	4	25/11	8/12	PA4	Implementation and testing
Construction	5	9/12	22/12	PA5	Implementation and testing