Project specification for 2025 (Application Development)

For this subject you are required to develop a technical solution to a problem you have encountered in your community or at CPUT or elsewhere. As a group you will decide on the problem you wish to solve and how you wish to use ICT to address the problem.

You are required to use JAVA to develop the solution and are expected to have a working system on conclusion of this subject. You will be required to work in groups of 6 as a project team – each team will produce a solution as a development team.

A supervisor will be assigned to each group to assist and give guidance.

Project Deliverables

1. TERM 1 (50%): Group submission with details of the project and the distribution of tasks among members
2. TERM 1 (50%): Individual submission from each team member giving the details of their allocated tasks and their plan of action to complete the tasks and how they integrate into the main project.
3. TERM 2 (100%): Individual submission from each team member on the progress made on their tasks.
4. TERM 3 (100%): Individual submission from each team member on the progress made on their tasks, with demonstrable value added to the main project.
5. TERM 4 (30%): Final individual report
6. TERM 4 (30%): Final group report
7. TERM 4 (40%): Final group presentation of the solution

Assignment submissions

All assignments must be submitted via the Blackboard assignment links. Email submissions are not allowed. Please take care on the submission links you use to submit. An application developer must be precise, and carelessness is not tolerated in the workplace.

Group submissions: One member of the group must submit the project report or documentation. The Blackboard group function is used to manage groups and marks allocation for group members. **All members can see the submission and must take responsibility that the submission is made. Do not rely on the group leader.**

Individual submissions: You must submit your individual project tasks on the Individual submission link provided.

Please refer to the rubrics on Blackboard attached to the assignment links for more detail on how the submissions will be marked.

Term 1: Group submission

The group must provide details about their intended project and the organization of the group. You must provide information on:

> ➢ Communication methods to be used and planned strategies for effective communication.
>
> ➢ Tasked allocated to each team member.
>
> ➢ Group organization about leadership, scribe, and any other important roles in the group
>
> ➢ Problem definition. List of functional requirements.
>
> ➢ Scope of the project.

Term 1: Individual submission

This an individual submission where you must provide information on:

> ➢ Your role in the group.
> ➢ Allocated tasks in the group, tasks completed and outstanding tasks. Be honest, as it is not always possible to complete all tasks as planned.
> ➢ Suggest improvements for the group and for you as an individual.

Term 2: Individual submission

This an individual submission where you must provide information on:

> ➢ Business rules
> ➢ Data design
> ➢ User interface design
> ➢ Self-reflection

Term 3: Individual submission

This an individual submission where you must provide information on

> ➢ Coding progress
> ➢ System design
> ➢ Testing the system/subsystem or testing strategy to be used.

Term 4: Individual report

This an individual submission, presented as a formal report, where you must provide information on

> ➢ What have you learned?
> ➢ What was your responsibility? Share the successes as well as the disappointments.

➢ Recommendations for improvements.

Term 4: Group report

This is a group submission presented as a formal report.

➢ System documentation
➢ User documentation

Term 4: System presentation

The group will present and demonstrate their working application.

➢ Design.
➢ Functionality.
➢ Look and feel.