SIM GLOBAL EDUCATION

UNIVERSITY OF WOLLONGONG AUSTRALIA

CSIT321 - PROJECT

First FYP Lecture

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CSIT321 – Project, 1nd FYP briefing

- **What is FYP?**
- Objective
- Learning Outcomes
- Assessment
- Who is who
- Role of a project supervisor
- Expectation from the project team
- Deliverables
- Important time-line

What is Final Year Project (FYP)?

A capstone project for students in Computer Science and Information Technology that aims to provide students with: practical experience in complete systems development.

It is **not** the same as your subject assignments.

It is a 12 credit points subject.

Duration

- The project is to be undertaken in two sessions in your final year of the course.

The challenge

- The independence of the work and the requirement for **originality** of the project.

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Objectives:

- Expose to real world working environment.
- Develop your ability to work on a large project in a group.
- The project connect groups of students with supervisors and clients that are facing an ICT-base problem.

Objectives:

- The students are required to **find** **innovative** and **creative** solutions for the problem. This will involve:
  - Research of proposed application domain,
  - Requirement Gathering,
  - Design,
  - Implementation,
  - Documentation,
  - Quality Control, and
  - Project Management aspects
  - Group coordination
  - Seminars and individual presentations

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Subject Learning Outcomes

- Through careful and in-depth researches, you should be able to define, design, program and document an industry-related ICT project.
- Communicate effectively with supervisors, clients, users and other stakeholders.
- Describe and carry out processes involved in planning, project management and including cost benefit and neds analysis.
- Employ problem solving skills in small groups.
- Consolidate, synthesise knowledge and apply factors that need to be considered in complete systems design.

Subject Learning Outcomes

- Use relevant design and evaluation methods and detailed planning for the maintenance of the designed system.
- Apply a professional and ethical approach to decision making and related social responsibilities in IT and software project.

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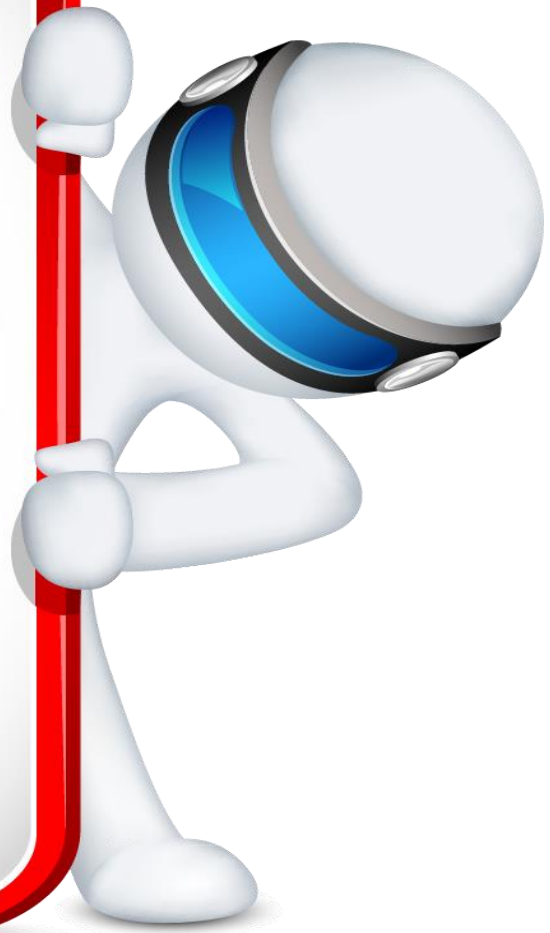


Assessment

You are assessed based on **project activities** and the **quality** of the products.

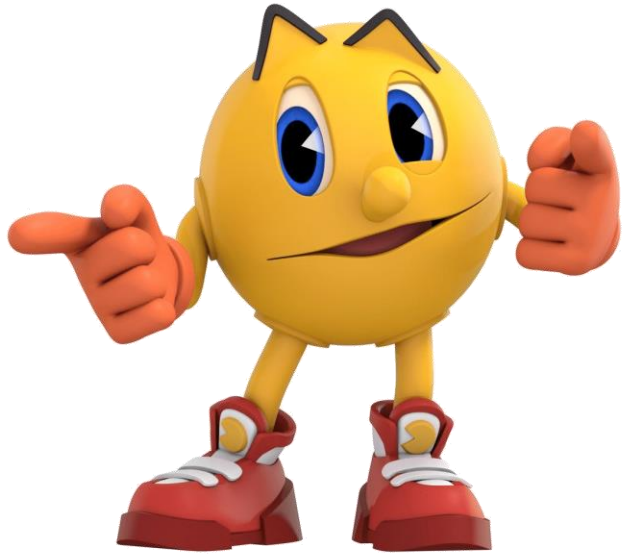
- Your participation and contribution to the project as a team.
- Originality of your product.

Guideline for the assessment:

Item	Assessment Items	Mark
1	Project requirements documentation (Group)	10%
2	Project progress presentation – Prototype demo (Group)	10%
3	Project progress report (Group)	15%
4	Final product and documentation (Group)	45%
5	Reflective diary (individual)	5%
6	Final presentation (Group)	15%

Guideline for the assessment:

Note: The weighting shown above are intended mainly as a guide to assess the final result. Each student's final result will be evaluated on his or her **individual** efforts and contribution, including individual performance during the FYP presentation.



What are expected for your assessment?

Project Requirements Documentation

- A requirements specification is required for the project. This is your opportunity to clearly specify, in agreement, with your supervisor, the:
  - Base requirements of the project (Minimum requirements)
  - Additional requirements which are considered “nice to have’s”.
  - Stretch goals.

What are expected for your assessment?

Project Requirements Documentation (continue…)

How to do that?
Do in-depth researches and analysis (qualitative or quantitative) on similar product and come out with good requirements (functional, non-functional, interface, as well as the scope.)

Important: Need to provide evidence of your researches and analysis. (Please refer to the Grade Descriptors described at the end of the Subject Outline.)

Subject outline

What are expected for your assessment?

Progress Presentation and Report

Groups should report on their progress to the subject coordinator and project supervisor. The report and presentation (approx. 20mins) should include:

- **Interface design ideas** created in a tool such as Axure RP, Adobe XD, Sketch, etc.
- **Preliminary website designed** to the used for external marketing of your project group and the system being developed.
- **Planning documentation** that **describes architectural and design** aspects of the project.
- A basic **working prototype** demonstrating some functionality of their system.

What are expected for your assessment?

Final Product, Documentation, and presentation

- All documentation should be submitted to the subject coordinator and your supervisor/client. Executable and binaries need to be provided, along with the documentation (this can be on a USB drive if the file exceed the space on UOW Moodle.)
- **ALL** group members **MUST** contribute a reasonable amount, determined by the group's supervisor and subject coordinator, to the implementation. i.e., code of the project and/or documentation. Failure to do so may result in a TF or WH grade being assigned to students who do not comply.

Subject outline

What are expected for your assessment?

Final Product, Documentation, and presentation

- The precise format and content of the final project documentation may vary from project to project. Consequently, the requirements of documentation should be discussed in detail with your supervisor and the subject coordinator. The final submitted project must include (at minimum) the following items to achieve a pass grade or better:
  - **Source code**
  - **User manual**
  - **Technical report/manual**
  - **Testing documentation**
  - **Final website (for marketing purposes)**

Subject outline

What are expected for your assessment?

Final Product, Documentation, and presentation (continue…)

How to do that?

- The team must **develop a product** and **NOT** just a program.
- **Completeness** of Product functionalities based on the requirement specification submitted; i.e., **conformance** to **explicit or implicit requirements** and **expectations**.
- Module and integration testing must be in the documentation.
- Higher grades can be awarded based on its market readiness.

Subject outline

What are expected for your assessment?

Individual reflective diary

Individual reflective diaries need to record your own (individual) activities. These entries must be completed on a weekly basis.

How to do that?

- In your diary, record your personal lessons learned, opportunities, as well as risks that you encounter, new ideas, questions, and thoughts concerning the current project and your execution.
- Use this diary to record areas where you excel as well as areas where you need improvement.

Subject outline

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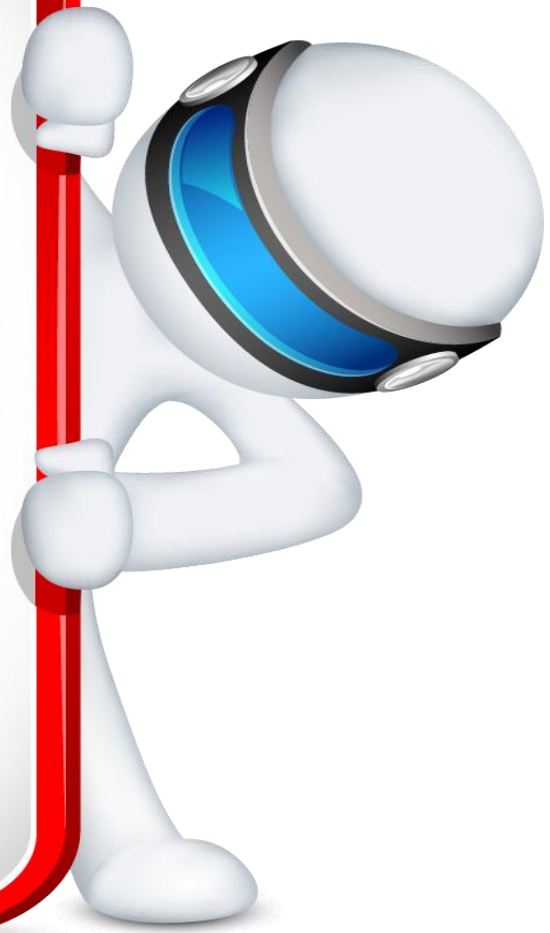

Who is who

- Academic Program Directors
  - A/Prof Chow Yang Wai
  - A/Prof Jun Yan
- Subject Moderator:
  - Prof Willy Susilo

Who is who

- Project Assessors
  - Mr. Premarajan
  - Dr. Loo Poh Kok
  - Mr. Tan Kheng Teck
  - Mr. Tian Sion Hui
  - Mr. Sionggo Japit

Who is who

- Project Supervisors
  - Mr Premarajan
  - Dr Loo Poh Kok
  - Ms Sujati Sastro
  - Mr Sionggo Japit
  - Mr Tan Kheng Teck
  - Mr Tian Sion Hui
  - Mr Lim Min Han
  - Mr Gary Ng

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Role of Project Supervisor

- Supervisor will be playing the role of a **facilitator**; they are **not** the Project Manager of your group.
- The implementation and coming out of solution for the project is **NOT** the responsibility of the supervisor.
- The supervisor may, to some extend, provide input to the implementation of the project.
- At the end of the day, the project supervisors and project assessor are the person who will assess you.

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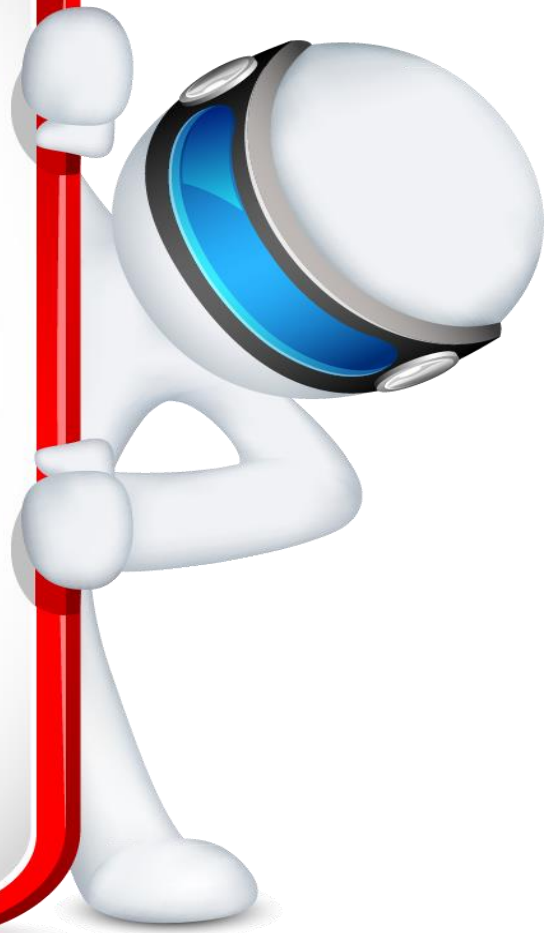

Expectation from the team

- Organize the group and appoint a group leader who will lead the group and establish communication with project supervisor.
- All communication with project stakeholders as well as project deliverables must be identified with your **Project Group ID**; e.g., **FYP-22-S2-03**.
- Team work is important, every one plays an important role in the team.
- No free loader, please.
- Every team member is expected to contribute to the project, and workload should be equitable.

Expectation from the team

- Schedule a weekly progress meeting among the team members and minute all your progress meeting.
- Arrange to meet with your project supervisor regularly, and keep your project supervisor updated on the progress of the project.
- When a problem occurs within the group you should talk with your supervisor immediately.

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Deliverables

Assessment Items & Format	% Of Final Mark	Group/ Individual	Due Date
Project requirements documentation	10%	Group	Week 5 14 May 2022
Project progress presentation – Prototype demo (approx. 20mins)	10%	Group	Week 11 25 June 2022

Deliverables

Assessment Items & Format	% Of Final Mark	Group/ Individual	Due Date
Project progress report	15%	Group	Week 11 25 June 2022
Final product and documentation	45%	Group	Week 19 20 August 2022
Reflective diary	5%	Individual	Week 19 20 August 2022

Deliverables

Assessment Items & Format	% Of Final Mark	Group/ Individual	Due Date
Final presentation **(approx. 30mins)**	15%	Group	Week 27 27 August 2022

Deliverables

1. **Project requirements documentation** (Due on 14 May 2022)

   You should focus on how you hope to plan and gather requirements. Do a proper researches and analysis, with clear critique and some functional understanding. Your planning should evidence any decision making on the type of functionalities to be implemented as well as their benefits. Your planning should also include allocation of resources and time and some discussion around the fundamental deliverable of the project.

Deliverables

- A typical project requirement includes:
  - A purpose
  - An overall description
  - Specific requirements
    - Functional requirements
    - Non-functional requirements
    - Other requirements
      - System features
      - Security requirements
      - Regulation such as PDPA, etc.
  - Work Breakdown Structure

Deliverables

2. **Project progress report** (Due on **25 June 2022**)
   - Your deliverables for this item include:
     i. Progress made (continuous progress) from start of project until a day before the due date.
        - In your progress report, you need to include the following:
          - Work accomplished in the preceding period(s)
          - Work currently being performed
          - Work planned for the next period(s)

Deliverables

2. **Project progress report** (Due on **8 January 2022**)
   - Your deliverables for this item include: (…continue)
     ii. Systems Design Requirements
     - Detail your design decision and a process of systematic evaluation, validation as well as verification. You should detail the specification of your system with a clear view about what it is you are building and the approaches that you intend to take.

Deliverables

2. **Project progress report** (Due on **8 January 2022**)
   - Your deliverables for this item include: (…continue)
     ii. Systems Design Requirements (… continue)
     - You should include in your design specification the following:
       - Website designed to be used for external marketing of your project group and the system being developed

Deliverables

2. **Project progress report** (Due on **8 January 2022**)
   - Your deliverables for this item include: (…continue)
     ii. Systems Design Requirements (… continue)
     - You should include in your design specification the following:
       - UI (interface) design ideas created in a tool such as Axure RP, Adobe XD, Sketch, etc.
       - Architectural designs as well as functional designs.

Deliverables

2. **Project progress report** (Due on **8 January 2022**)
   - Your deliverables for this item include: (…continue)
     iii. A working prototype
       - A basic working prototype demonstrating the planned functionality of their system.

Deliverables

3. **Final Product, Documentation, and Presentation (Group)**
   (Due on **27 August 2022**)

   i. Source code, including executable and documentation (user manual)

   ii. User manual
      - Hardware/software requirement
      - Installation guide (if any)
      - Clear, unambiguous instructions

Deliverables

iii. Technical report/manual

- Requirement Specification (final version)
- Design Specification (final version)
  - Architecture Design
  - Database Design (if any)
  - Software Design
- Testing Documentation (final version)
  - Test Plan
  - Test Cases and the respective Test Logs.

Deliverables

iv. Final project Website (for marketing purposes).

- Note: if you host your website on a paid domain, make sure you have the website active (available) for at least one month after your FYP presentation.

v. A video recording of all your implemented functions.

Deliverables

4. **Reflective diary** (Due on **20 August 2022**) - **Individual**
   - Recording of individual's activities related to the final year project which includes and not limited to your individual inputs, contribution and efforts in any form leading towards the completion of the final product.
   - The entries must be completed on a **weekly** basis.

Deliverables

5. **Peer assessment and group contribution statement** (Due on **20 August 2022**) - **Group**
   - Evaluation of individual member on fellow group members' contribution.
   - This peer evaluation will be considered by the supervisor and assessor to determine the final mark for participation and contribution of individual member for the project.

Deliverables

- All deliverables, **except for the Final Product**, must be submitted through UOW Moodle using the submission link created for each deliverable by due date.
- For the Final Product, please do the following:
  i. Submit the following three items through UOW Moodle using the submission link created.
     - Technical Manual
     - User Manual
     - Peer assessment and group contribution statement.

Deliverables

- For the Final Product, please do the following: (… continue)
  ii. Upload **ALL** your Final Product (including Technical Manual, User Manual, Peer assessment and group contribution statement) to a cloud storage and email the link to your project assessor, supervisor and Mr. Bernard Sin (Bernardsin@sim.edu.sg) for processing by **27 August 2022**.

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To be completed in week 1 to week 10

To be completed in week 11 to week 20

		Start of FYP
• 1st FYP briefing • Receive Supervisor Project Plan (End of Week 1)	Week 1	Research and Literature Review
	Week 2 to Week 5	Requirement Analysis - Review - Requirement elicitation - Requirement Specification
	End of Week 5	Submit Project Requirement Documentation
	Week 6 to Week 11	Design Analysis - Review - Detailed Design - Prototype development
• 2nd FYP briefing • Prototype demonstration	End of Week 11	Submit - Project Progress Report - Prototype Demonstration
	Week 12 to Week 19	Project construction - Review - Coding - Testing - Integration
	End of Week 19	Submit - Reflective Diary (Individual) - Final Product and Documentation
	Week 20	Deployment - Finalization and review - Wrap-up your development - Preparation for FYP presentation
• FYP presentation	End of Week 20	FYP presentation - Group presentation, every team members must present - Submit FYP Presentation slides
		End of FYP

Thank You!
and
Good luck on your project...