
Hong Kong Institute of Vocational Education (TY)
Department of Information and Communications Technology
ITP4522 SPMQA
(2021/2022)
Assignment Guidelines: PBL Case Study

Introduction:

This assignment aims to let students understand the different deliverables under the System Development Life Cycle. Students are expected to learn what materials should be included in the other documents. This Assignment will use the Project-Based Learning (PBL) joint case study with ITP4915M (System Development Project) and ITP4510 (Data Structures & Algorithms).

Clarification of the Scope of the documents

Both modules, ITP4915M and ITP4522, are required to submit the document of Requirements Specification and the document of Design Specification, but the viewpoints and platforms are different.

The documents of ITP4522 should be from the project manager/solution provider point of view. The solutions could be constructed on any architecture, not limited to a client-server architecture. The documents for ITP4522 are written from project management and communication perspective. The documents of ITP4915M should be from a client-server architecture development point of view. For example, the Design Specification should provide more system-level information in ITP4522, but the Design Specification should provide more program level information in ITP4915M.

Assignment work:

Students are required to form groups of 2 students for this assignment. Each group produces the following deliverables:

1. Requirements Specification
 - Planning phase: Work plan including study background, feasibility analysis and proposal/solution, planning including budgeting, staffing and schedule. (10%)
 - Analysis phase: System proposal including current problems and the proposed solutions, system requirements, existing and proposed system. (30%)
2. Design Specification
 - Design phase: Design specification including detailed design of the system, structure chart, user interface design and process design. (30%)
3. Test Plan
 - Implementation phase: A draft of a test plan including types of tests conducted with sample test cases for every kind of test. (10%)
 - Migration plan with conversion strategy and system support arrangements. (10%)

4. Each group will give a 10-minute presentation at the end of the semester to present the findings, design and outline the testing method of the system. Each group should present their work in an equal proportion of the time. (10%)

Deadline for submission:

- Requirements Specification: on or before 17:00 on 17th February 2022 (Thursday)
- Design Specification: 17:00 on 24th March 2022 (Thursday)
- Test Plan: 23:59 on 6th April 2022 (Wednesday)
- Demonstration: 10-minute presentation per group from 7th to 13th April 2022.

Marks Allocation:

- Requirements Specification (40%)
- Design Specification (30%)
- Test Plan (20%)
- Presentation (10%)