



CAT404 Software Engineering Major Project

Final Report Outline

School of Computer Sciences

Academic Session: 2023/2024

Templates

Please note that a template is included in the CAT404 Information Kit. This template should be utilized to prepare the CAT404 final report.

Cover Page

Use Red soft card for cover page printing. Indicate that the report is a **final report**, not an analysis report.

Final Report Outline

The final report should include but not limited to the following sections/chapters:

1. Declaration.
 - Ensure that the declaration is properly signed with relevant details.
2. Abstract.
 - Both the Malay and English versions are needed.
3. Acknowledgements.
4. The following chapters (i.e. Introduction, Background and Related Work, and System Requirements / Analysis) have been included in the analysis report. Revise these three chapters based on the comments from supervisor and examiners. Include the revised chapters in the final report. Please refer to the system requirements and design report outline, which can be found in the CAT404 Information Kit for the outline details of these three chapters.
5. System Design & Implementation.
 - System design system/application architecture – discuss and describe each component in detail.
 - Describe the implementation of the method/approach in the system.
 - Design modeling using appropriate diagrams, according to the project type and needs (e.g. design class diagrams, detailed sequence diagrams, detailed state chart diagrams, package diagrams, protocol, message passing diagrams, algorithms, pseudocodes). Remember to select only the diagrams that are applicable with the development of the project.

- Database design (if applicable).
 - User interface design (sample screen shots should appear in the appendix).
 - System interface design (is relevant).
 - Implementation strategy (e.g. bottom-up, top-down).
 - Give a good overview so that the design is clear and focus on the interesting design decisions (e.g. what were the alternatives, and why select one particular solution).
6. System Testing & Evaluation.
- Discuss testing strategy (e.g. unit, integration, system, acceptance, and how they are carried out).
 - Discuss how test cases. Scenarios were selected.
 - A summary of the test results and what coverage was achieved. The detailed test reports should appear in the appendix.
 - Evidence that the application meets the requirements and work.
 - Provide a critical evaluation of the work (e.g. advantages, disadvantages, strengths, and limitations) by comparing the work with other existing systems.
 - Summary of important findings.
7. Conclusion & Future Work.
- Summary of results and how requirements have been met.
 - A critical evaluation of the results of the project (e.g. how well were the goals met, is the application fits for purpose, has good design and implementation practice been followed, was the right implementation technology chosen and so on).
 - Outline the success of the project when compared to the objectives that were set.
 - Suggest further work for the project.
 - Make explanations complete. Avoid speculation that cannot be tested in the foreseeable future. Discuss possible reasons for expected or unexpected findings.
8. References.
- List down all the references from books, journals, proceedings, websites, manual etc.
 - Recommended reference style: APA or Harvard or IEEE.
9. Appendices.
- Any other relevant information, e.g. detailed use case specification, detailed sequence diagrams, screen shots, detailed flowcharts, and pseudocodes.