

**TK/TM/TU/TH4086
SEMESTER 2 2020/21**

IMPLEMENTATION (DELIVERABLE 5)

ABOUT IMPLEMENTATION (DELIVERABLE 5)

In this phase, you will focus on developing the software/system/technology according to the requirements and design proposed in the T_4172 project proposal. The implementation phase is similar to the Requirement Specification (D2) and Design Specification (D3) phases in that it describes the software/system/technology, but it does so at a finer level of detail, down to the code level. This phase is about the realisation of the concepts and ideas developed in T_4172. It can also describe any problems that may have arisen during implementation and how you dealt with them.

Do not attempt to describe all the code, and do not include large pieces of code in this document. Complete source code should be provided in the final document (D7). Instead, pick out and describe just the pieces of code which, for example:

- are especially critical to the operation of the software/system/technology,
- you feel might be of particular interest to the reader for some reason,
- illustrate a non-standard or innovative way of implementing an algorithm, data structure, etc.

DOCUMENT CONTENT

1. INTRODUCTION

Provide an overview of the document:

- Describe the purpose of this document.
- Describe the scope of this document.
- Relate to other pertinent documents:
 - ✓ Documents that provide background and/or context for this document (e.g. Project Plan/Proposal, Requirements and Design Specification).
 - ✓ Documents that result from this document (e.g. User Interface, Code, Test Plan, User Manual).
- Define any important terms, acronyms or abbreviations.

2. DEVELOPMENT PROCESS

- Explain the system development process briefly using the chosen technology.
- Extract and explain critical code segments.
- Include all important modules, components, libraries, database.
- Include the user interface (front end and back end) of the software/system/technology.
- Full code, modules, components, libraries, database can be included in the appendix (Optional).

Note:

The required outcome depends highly on the proposed solution and the respective fields. Apply as necessary. Refer to Heads of Programme for details. The content of this document is a part of Chapter 4 (System Development and Testing).

3. CONCLUSION

- Mention any unforeseen problems you encountered and to what extent you overcame them. Common problems are:
 - difficulties involving existing software, because of, e.g.,
 - its complexity,
 - lack of documentation;
 - lack of suitable supporting software,
 - over-ambitious project aims.
- Briefly summarise the content of the implementation.

REFERENCES

- List the sources of information that support the implementation process (i.e., github, online documentation/blogs, white/technical papers, journal/conference articles, books etc.).
- Use the appropriate referencing formats (i.e., Gaya UKM).

SUBMISSION:

- Submit the hardcopy and/or softcopy to Supervisor.
- Upload the softcopy to SPID.