*[This template can be adapted as necessary (ie, with good reason) to suit the project specifics.]*

*[PROJECT TITLE]*

**Detailed System Design and Implementation Report**

*[TEAM NAME]*

*List of your Names*:

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*SUBJECT CODE, NAME, SEMESTER AND DATE*

**Note: Please read carefully**  
  
Throughout this document, all text in ***RED ITALICS*** should be replaced with data relevant to your project.

Delete all the explanatory text in RED, including this box before submission.

# Document Change Control

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| **Version** | **Date** | **Authors** | **Summary of Changes** |
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*[Each time this document is revised, complete details of changes in Document Change Control table]*

* **Document Sign Off**

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*[When document is finalised for submission, all team members must affix their signature in the Document Sign Off table]****[No-one should sign unless they have read the report and agree with it. ]***

* **Client Sign off**

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| **Name** | **Position** | **Signature** | **Date** |
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| **Organisation** | | | |
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*[Client to sign off on the Software Design to signify they agree with the design]*

1. **Introduction**

*[In this opening, briefly*

* *Discuss the software/system that will be developed;*
* *Define the purpose of this Detailed Design and Implementation Report and identify its target reader or audience.]*

## Overview

*[Provide an overview (or executive summary) of this document]*

## Definitions, Acronyms and Abbreviations

*[Provide the definition of all terms, acronyms, and abbreviations used in this document.]*

**1.3 Assumptions and Simplifications**

*[List and discuss the assumptions and simplifications you have made in developing the detailed system design (as presented in this document).]*

1. **System Architecture Overview**

*[Provide a high-level overview of the system architecture as defined in the System Architecture Design and Research Report. This is to provide a context for the discussions in the remainder of this document.]*

1. **Detailed System Design (using Object Orientation or alternative)**

*[Develop and present a detailed design, following a specific approach (e.g., responsibility-driven object-oriented design).*

*Note that an alternative design approach to OO can also be used (instead), but a justification needs to be provided as to why the chosen approach is more suitable to the target system. In any case, the design, its justification and verification need to be presented.*

*Also note that depending on the SDLC chosen (eg, agile development), this part of the detailed design may be developed in a number of stages of the project – but, they need to be considered before the implementation of the relevant part of the system.]*

* 1. **The Detailed Design and Justification**

*[For example, if using OO design, the design should include one or more class diagrams and possibly other UML diagrams, the necessary description and justifications of them (including design patterns and heuristics used if any).*

*An alternative approach can also be adopted, In any case, the design decisions need to be justified.]*

* 1. **Design Verification**

*[Present and discuss the verification of your design in this section. A usual approach for design verification is to demonstrate that the use scenarios (from the SRS) can be supported by your design. Well accepted alternative approaches can also be used instead.]*

1. **Implementation**

*[In this part of the report, provide an overview of the state of the system implementation (relative to the SRS, architecture design and detailed design), and document the key implementation decisions.]*

1. **References**

*[If you have used information from published sources, show where it came from here (and cite them in the relevant places of this report). Use the Harvard system of citation (or another system, but be consistent). For instance, they may be books, journal articles, or websites.]*

***[Your reference list entry must be in the form of***

**Author, Initial(s) Year, Title of Document/Webpage/Website, Organisation/Host, viewed Day Month Year, <URL>.**

**example**

Yates, J 2009, Tax expenditures and housing, Australian Housing and Urban Research Institute, viewed 12 November 2013, <http://www.ahuri.edu.au/publications/download/ahuri\_judith\_yates\_research\_paper>.]

***[Your in-text may be in the form of***

* **Direct quote**

"Most official estimates ..." (Yates 2009).

* **Paraphrase**

Yates (2009) looked at the equity implications of tax ...]

***[For more information on the Harvard style guide***

***refer to***

[*http://www.swinburne.edu.au/lib/studyhelp/harvard\_style.html*](http://www.swinburne.edu.au/lib/studyhelp/harvard_style.html)*]*