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

*[PROJECT TITLE]*

**System Architecture Design and Research 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 Software Design and Research 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. **Problem Analysis**

*[This section provides a high-level analysis of the Software/System Requirements (SRS) of the target software system from the viewpoint of developing a design solution for it.]*

* 1. **System Goals and Objectives**

*[Summarise the high-level system goals and objectives, and refer to the SRS document.]*

* 1. **Assumptions**

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

* 1. **Simplifications (if any)**

*[List and discuss the simplifications that have been made in developing the system design.]*

1. **High–Level System Architecture and Alternatives**

*[Describe, using appropriate models and notations, the chosen high-level architecture of the software system that will be developed. Also discuss two additional architecture alternatives that have been explored but not chosen. This is a refinement of the high-level architecture discussed in the SRS.]*

*Note that this section is about the high-level architecture design (rather than a lower-level detailed design in the next section).]*

* 1. **System Architecture**

*[Present the system architecture in this section. A Component-and-Connector view and a Deployment Allocation view (or some alternatives of similar nature) with the necessary descriptions and justifications are expected as the minimum.]*

* 1. **Other Alternative Architectures Explored**

*[Present and discuss two additional architecture alternatives that have been explored and provide the rationale as to why they are considered inferior to the chosen architecture.]*

1. **Research and Investigations**

*[In this part of the report, outline and detail the research that has been undertaken during the requirements analysis and system design stage. Theses research efforts may be related to understanding the system’s business/application domain, system design (eg, similar existing systems, architecture styles and patterns, etc), technological platforms and programming languages, and so on. ]*

* 1. **Research into Application Domain**

*[Research into the application domain goes here.]*

* 1. **Research into System Design**

*[Research into the system design goes here.]*

* 1. **Research into technical platforms, languages and tools**

*[Research into the technical platforms, programming languages and tools goes here.]*

* 1. **Other Research**

*[Research into other aspects of the project / system goes here.]*

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)*]*