

# Architectural Specification Layout

## Front Page

- Document Heading (Architectural Specification)
- Group number / name.
- List all the members in your group including their student numbers.
- Version number of the document.

## Change Log/History

This is useful for tracking changes made for each version of the doc (date, doc version, description, updated by). The first version will most likely only have a “Document created” entry.

## Table of contents

## 1 Introduction

### 1.1 Purpose

What is the purpose of the document? Who should be using it?

### 1.2 Document Conventions

Conventions used in the document. Example: Crow's foot notation for entity relationship diagrams.

### 1.3 Project Scope

Short overview with limitations and/or restrictions of the project.

### 1.4 References

Any references you used. For example:

[1] Power Corp, “Lights: Architectural Specification”, version 1.2, 2015.

You should refer to references in text as demonstrated by referencing Power Corp [1].

### 1.5 Related Documents

The requirement specification will be one.

## 2 System Description

Give a description of the system this document is for.

## 3 Overall Architecture

It is recommended to use Kruchten's 4+1 architectural view model for this document. The different views can be discussed in section 4 (Details of Subsystem). See Wikipedia: [http://en.wikipedia.org/wiki/4+1\\_architectural\\_view\\_model](http://en.wikipedia.org/wiki/4+1_architectural_view_model)

### 3.1 Architectural Patterns

Pattern(s) used in the architecture, for example: MVC, Client/Server, 3-Tier etc.

### 3.2 Architectural strategies/ Tactics

Architectural strategies/tactics to be chosen to concretely address quality requirements. Specify tactics like interception, resource reuse (e.g. thread, connection, object pooling), role-based authorization,

### 3.3 Reference Architectures

Specify any reference architecture like Java-EE, SOA, Space-Based reference architectures on which the defined architecture will be based

### 3.4 Technology and frameworks selection

Specify the concrete technologies and frameworks (e.g. programming languages, web servers, application servers, database management systems, ...) which will be used in the software architecture and discuss their support for your chosen architectural patterns and strategies.

## 4 Details of Subsystem

If you are using Kruchten 4+1, your subsections will be:

- Scenarios
- Logical view
- Development view
- Process view
- Physical view

## 5 Policies

This includes Coding Standards, Software and Tools that should be used.

## 6 Traceability Matrix

Indicate which requirements are addressed in this document.

## 7 Glossary