Architecture Document Template

REVISION HISTORY		
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V0.1	1s Draft	2022/01/02

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Introduction

This section is usually used to provide the context of your project. It is useful to provide a contextual diagram to illustrate how the system you are building fit in with the existing applications at a high level.

It is also useful to provide in this section what you consider in scope and out of scope of your project.

Objectives

Describes clearly and concisely what are the objectives (business and technical) of the application you are building.

Functional requirements

This section presents the main functions of the system. Usually, you present a summary of the requirements and digrams such as use cases, business process and workflow diagrams.

Th detailed description of the requirements is usually documented in another document that you can reference in this section.

Architecture characteristics

This section identifies the architecture characteristics know also as non-function requirements. Non-functional requirements form the foundational of the architecture and are needed to do analysis and make decisions.

It is very important to identify the critical non-functional requirement. May be no more than 5 and base your architecture on this critical list. It is also important to justify why you are considering these non-functional requirements.

For more details: https://bit.ly/31mpUYA

Examples of non-functional requirements:
Performance, availability, fault tolerance, scalability, interoperability, extensibility, testability, configurability, maintenability…etc.

Architecture Constraints

The Constraints that you have in your project will shape your architecture decisions. Try to identify them as early as possible in your project.
For more details, take a look at: https://bit.ly/3qFcwr7

High-Level Architecture

This is the section where you will present the solution overview. Usually diagrams such as Component/Module diagrams are part of this section where the components composing your architecture are presented.

You may also use sequence diagrams to show interactions between the different components. It is also important, at this level, to to identify all the integration points with the other systems.

Detailed Architecture

In this section, you provide all the details of your architecture using the different diagrams. Use different diagrams to represent different views of your solution such as:

- Deployment diagrams
- Runtime diagrams
- Collaboration and/or sequence diagrams

It is also important in this section to indicate how the non-functional requirements (characteristics) are impacting the architecture you are proposing.

Architecture Decisions

We are making a several architecture decisions. The goal of this section is referes to the decisions you are making. Architecture decisions are usually documented as ADR (See here for more details: https://bit.ly/32B9lsE)

Milestones and Deliveries

This section is optioanal. It presents the phases of the deliveries and the target dates

Technical Debts

In this section, you identify the technical debts that the new system may introduce (because of tactical decisions or other) and/or technical debts your architecture is fixing.

Glossary