
Penbo Simplicity

**Alarm Clock
Software Architecture Document**

Version 1.0

Alarm Clock	Version: 1.0
Software Architecture Document	Date: 28/11/2016

Revision History

Date	Version	Description	Author
28/11/2016	1.0	Initial Creation	Benedikt Bosshammer

Alarm Clock	Version: 1.0
Software Architecture Document	Date: 28/11/2016

Table of Contents

1.	Introduction	4
1.1	Purpose	4
1.2	Scope	4
1.3	Definitions, Acronyms, and Abbreviations	4
1.4	References	4
1.5	Overview	4
2.	Architectural Representation	4
3.	Architectural Goals and Constraints	4
4.	Use-Case View	4
5.	Logical View	4
5.1	Overview	5
5.2	Architecturally Significant Design Packages	6
6.	Process View	6
7.	Deployment View	6
8.	Implementation View	6
9.	Data View	6
10.	Size and Performance	7
11.	Quality	7

Alarm Clock	Version: 1.0
Software Architecture Document	Date: 28/11/2016

Software Architecture Document

1. Introduction

1.1 Purpose

This document provides a comprehensive architectural overview of the system, using a number of different architectural views to depict different aspects of the system. It is intended to capture and convey the significant architectural decisions which have been made on the system.

1.2 Scope

The scope of this SAD is to show the architecture of the Alarm Clock application. Affected are the class structure, the use cases and the data representation.

1.3 Definitions, Acronyms, and Abbreviations

SAD	Software Architecture Document
tbd	to be determined

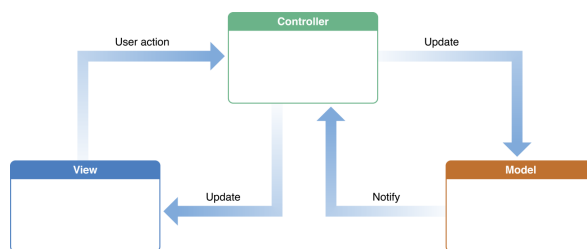
1.4 References

1.5 Overview

This document describes the software architecture to ensure that everybody understands it and new developers can be let into the project easily. It describes how the application is structured, why it is structured like it is and what we do to ensure that our code meets a certain quality standard.

2. Architectural Representation

This project will use the MVC architecture, which Swift utilizes by default.



<https://developer.apple.com/library/mac/documentation/General/Conceptual/DevPedia-CocoaCore/MVC.html>

3. Architectural Goals and Constraints

The main goal of the MVC architecture is to separate the view from the logic. Therefore the view knows nothing on its own, but gets all information from the logical part. Swift automatically creates projects based on the MVC pattern.

4. Use-Case View

n/a

5. Logical View

See our class diagram:

Alarm Clock	Version: 1.0
Software Architecture Document	Date: 28/11/2016

10. Size and Performance

(n/a)

11. Quality

For nowadays standards the quality of our application is important to find stoutness in a great audience. Current standards are based on a flat ui design as well as clear and structured interfaces. The app should be used intuitively.

We try to build an extensible structure, so there is always the possibility for us to create new game modes or add other features. Due to Swift, the application will be available for all modern iOS devices. The migration to OSX in the end should be simple.