

**WakeMeInTime
Software Requirements Specification**

Version 1.0

WakeMeInTime	Version: 1.0
Software Requirements Specification	Date: 21/10/17

Revision History

Date	Version	Description	Author
22/10/17	1.0	Initial version, added Use Case Diagram	Florian Christof, Denny Flämig

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Software Requirements Specification

1. Introduction

1.1 Purpose

This SRS will define our project and will give a detailed description of all its features.

1.2 Scope

WakeMeInTime will be an application that will help you organize your appointments automatically. As such the focus of this project will be mobile platforms, specifically the Android system.

1.3 Definitions, Acronyms, and Abbreviations

MVC	Model-View-Controller
App	Application
API	Application-Programming-Interface

1.4 References

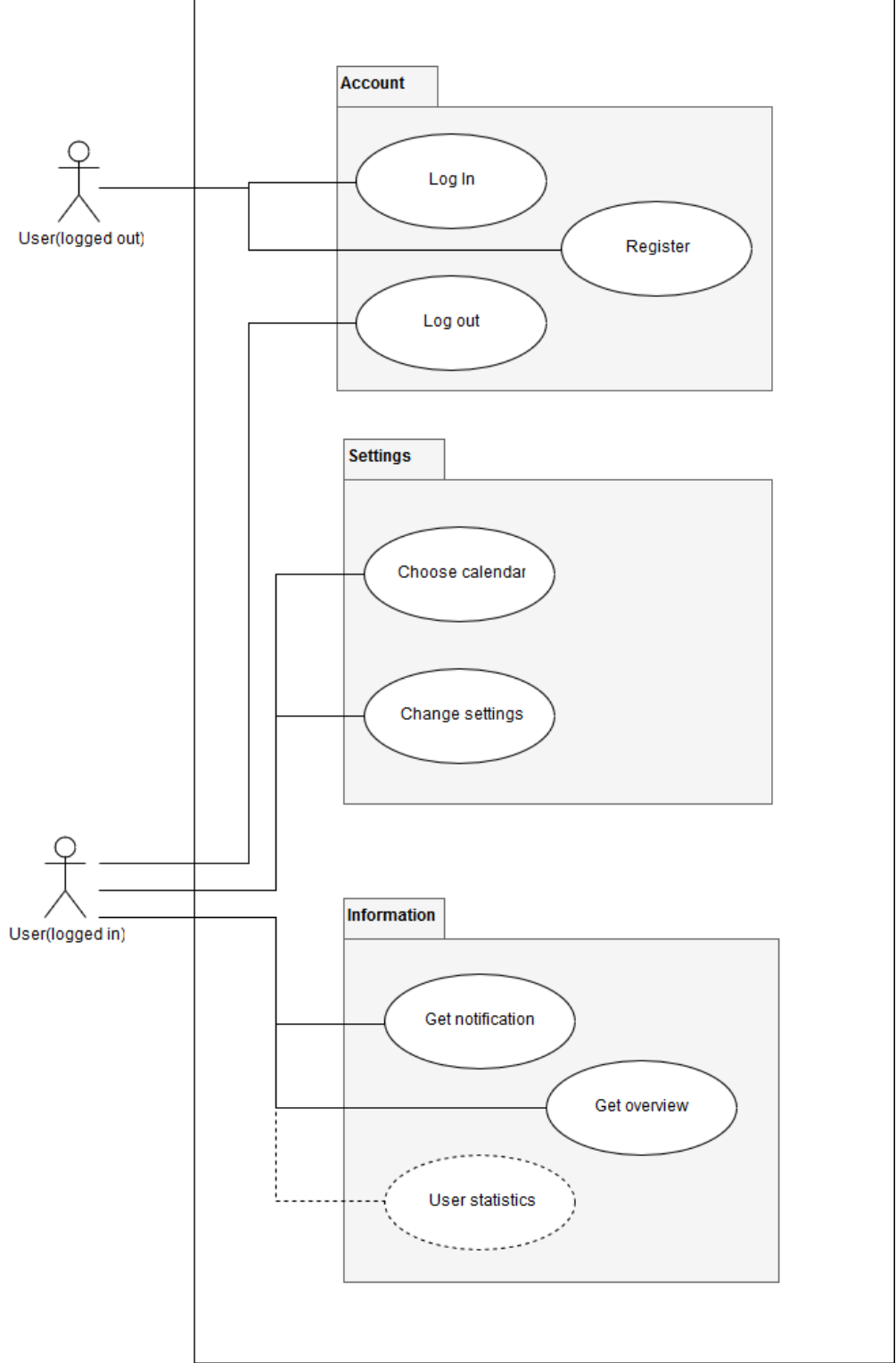
Not applicable

1.5 Overview

The idea behind WakeMeInTime changed from a simple alarm clock app to a complete scheduling app. It grabs appointments from your calendar, checks the locations and provides traffic information. It takes this information and sets your alarm according to your customized time.

2. Overall Description

The following Use Case Diagram will show you the main features of our application.



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3. Specific Requirements

3.1 Functionality

3.1.1 Register

The user can register, primarily with his Google account, since most of our functionality is based on Google services.

3.1.2 Login

The user can log in to our app by providing his Google account information.

3.1.3 Logout

The user can log out.

3.1.4 Get calendar data

The app can connect to your Google Calendar and read your appointment information.

3.1.5 Get traffic information

The app can use Google to check for traffic data and can also use “Deutsche Bahn” data or other local transportation service to get information about public transportation.

3.1.6 Set alarm

The app has access to the alarm and can set it and change the alarm settings.

3.1.7 Set notification

The app will show you various notifications about your appointments, or how much time you have left.

3.1.8 Change settings

The user can change various app setting.

3.2 Usability

3.2.1 Structured settings

The settings will be easy to reach and the user can adjust them without any difficulty.

3.2.2 Easily accessible functions

All common functions will be available on the home screen, or will be automatically provided in the form of notifications.

3.2.3 Language

The main language will be German, but an English version is possible.

3.3 Reliability

3.3.1 Accuracy

- Position should be determined within a 20m radius.
- Traffic data should be updated regularly, according to special rules.

3.3.2 Availability

24/7

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3.3.3 *Mean Time Between Failures*

To be determined.

3.4 **Performance**

3.4.1 *Response time*

App should load fast after tapping the icon.

3.4.2 *Capacity*

There will be no limitation to the number of users.

3.4.3 *Speed*

The performance should be very fluent.

3.5 **Supportability**

3.5.1 *Conventions*

The code should follow the Java Naming Conventions and using speaking variable and function names.

3.6 **Design Constraints**

3.6.1 *MVC pattern*

The programming of this application will follow the MVC architecture pattern. It decouples the major components model, view and controller. The model contains the business logic, the view shows the result to the user and the controller is the intermediary between those two. This allows for efficient code reuse and parallel development.

3.6.2 *Programming language*

This application will be programmed in Kotlin and Java.

3.7 **On-line User Documentation and Help System Requirements**

In-App help-functions.

3.8 **Purchased Components**

Not applicable.

3.9 **Interfaces**

3.9.1 *User Interfaces*

Users can access the system via Android app. Mockups for their design are released soon.

3.9.2 *Hardware Interfaces*

Not applicable.

3.9.3 *Software Interfaces*

Several Google APIs

3.9.4 *Communications Interfaces*

- Alarm Clock
- Notification
- Weather

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3.10 Licensing Requirements

To be determined.

3.11 Legal, Copyright, and Other Notices

To be determined.

3.12 Applicable Standards

Not applicable.

4. Supporting Information

To be determined.