

**DocInformation:Subject (fixed)**  
**Software Requirements Specification**  
**For <Subsystem or Feature>**

**Version 1.0**

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Date	Version	Description	Author
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02.07.2017	1.1	Final Update	TINF15B4-LSMF

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# Software Requirements Specification

## 1. Introduction

The project “SilverScreen” should be an android application that gives you recommendations based on the movies you watched and enjoyed.

### 1.1 Purpose

This SRS gives an overview of the requirements on the project.

### 1.2 Scope

This document is for internal use and should be used as directive for the development in this project.

### 1.3 Definitions, Acronyms, and Abbreviations

- SRS: Software Requirements Specification
- App: Application
- API: Application Programming Interface

### 1.4 References

- Blog: <https://tin15b4lsmf.wordpress.com/>
- GitHub: <https://github.com/WowItsSoftwareEngineering/TINF15B4-LSMF>

### 1.5 Overview

Finished your favorite movie and don’t know what you want to watch next?

SilverScreen will provide a smooth solution for that!

We – a team of four students from the Duale Hochschule in Karlsruhe – have just stated working on a Java based Android application which will make it easy for you to select your next movie.

Next we want to tell you something about the features of the tool:

- store user login information in MySQL database
- search for movies by title
- provides an overview about the movie (posters, actors, publishing-year etc.)
- store the movies you enjoyed watching in a database
- get recommendations on movies which match your taste

## 2. Overall Description

### 2.1 Product Perspective

The Android App should have a clearly structured User Interface, short loading times and small traffic use.

### 2.2 User characteristics

The user should have access to his account data from every Android device he is using which is made possible by storing the data in database.

### 2.3 Constraints

For adding a movie to his “watched and liked” list and updating the recommendations the device has to have a internet connection. The App will require an Android version higher than 4.0 .

### 2.4 Assumptions and Dependencies

- IDE: Android Studio
- Version-Control: GitHub
- Scrum: JIRA

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- Programming Language: Java, PHP
- Database: MySQL
- CI: None

### 3. Specific Requirements

#### 3.1 Functionality

- [Registration](#)
- [Activation](#)

#### 3.2 Usability

##### 3.2.1 Training Time

- Given the way we are designing the user interface the usage of the product should be intuitive and not require much introduction.

##### 3.2.2 Hardware Requirements

- The user needs a mobile device running an Android system of firmware version 4 or higher with an active internet connection.

##### 3.2.3 Software Requirements

- The device doesn't need to have any other apps preinstalled.

#### 3.3 Reliability

##### 3.3.1 Availability

- 95.00 % availability of the web application, 5.00% downtime because of backups etc.

##### 3.3.2 Mean Time to Repair

- up to 12 hours to repair the system

##### 3.3.3 Maximum Bug Rate

- (n/a)

##### 3.3.4 Bug Rate

- (n/a)

#### 3.4 Performance

##### 3.4.1 Response Time

- (n/a)

##### 3.4.2 Throughput

- (n/a)

##### 3.4.3 Capacity

- (n/a)

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#### 3.4.4 *Degradation modes*

- (n/a)

#### 3.4.5 *Resource utilization*

- (n/a)

### 3.5 Supportability

- Android device
- Android system firmware of 4 or higher
- active internet connection for database access

### 3.6 Design Constraints

- solution of the devices which should be covered automatically by the IDE

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

- The link to user documentation will be provided on our blog.

### 3.8 Purchased Components

- DigitalOcean server with a MySQL database

### 3.9 Interfaces

#### 3.9.1 *User Interfaces*

*<Mockups hier einfügen>*

#### 3.9.2 *Hardware Interfaces*

- (n/a)

#### 3.9.3 *Software Interfaces*

- The Movie Database API for getting movie information
- Database driver for access to MySQL
- SilverScreen API for database access

#### 3.9.4 *Communications Interfaces*

- an internet connection via WLAN or mobile internet

### 3.10 Licensing Requirements

- mentioning of the TMdb API in the about section

### 3.11 Legal, Copyright, and Other Notices

- The software is free available on GitHub

### 3.12 Applicable Standards

- (n/a)

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## 4. Supporting Information

### 4.1 Overall Use Case Diagramm

