DocInformation:Subject (fixed)

Software Requirements Specification

For <Subsystem or Feature>

Version 1.0

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 20.10.2016 | 1.0 | Initial draft | TINF15B4-LSMF |
| 15.12.2016 | 1.1 | Added UseCase Links | TINF15B4-LSMF |
| 30.12.2016 | 1.2 | Added UseCase Links | Fabian Blatz |
|  |  |  |  |

Table of Contents

[1. Introduction 4](#_Toc465091084)

[1.1 Purpose 4](#_Toc465091085)

[1.2 Scope 4](#_Toc465091086)

[1.3 Definitions, Acronyms, and Abbreviations 4](#_Toc465091087)

[1.4 References 4](#_Toc465091088)

[1.5 Overview 4](#_Toc465091089)

[2. Overall Description 4](#_Toc465091090)

[2.1 Product Perspective 4](#_Toc465091091)

[2.2 User characteristics 4](#_Toc465091092)

[2.3 Constraints 4](#_Toc465091093)

[2.4 Assumptions and Dependencies 4](#_Toc465091094)

[3. Specific Requirements 5](#_Toc465091095)

[3.1 Functionality 5](#_Toc465091096)

[3.2 Usability 5](#_Toc465091097)

[3.2.1 Training Time 5](#_Toc465091098)

[3.2.2 Hardware Requirements 5](#_Toc465091099)

[3.2.3 Software Requirements 5](#_Toc465091100)

[3.3 Reliability 5](#_Toc465091101)

[3.3.1 Availability 5](#_Toc465091102)

[3.3.2 Mean Time to Repair 5](#_Toc465091103)

[3.3.3 Maximum Bug Rate 5](#_Toc465091104)

[3.3.4 Bug Rate 5](#_Toc465091105)

[3.4 Performance 5](#_Toc465091106)

[3.4.1 Response Time 5](#_Toc465091107)

[3.4.2 Throughput 5](#_Toc465091108)

[3.4.3 Capacity 5](#_Toc465091109)

[3.4.4 Degradation modes 6](#_Toc465091110)

[3.4.5 Resource utilization 6](#_Toc465091111)

[3.5 Supportability 6](#_Toc465091112)

[3.6 Design Constraints 6](#_Toc465091113)

[3.7 On-line User Documentation and Help System Requirements 6](#_Toc465091114)

[3.8 Purchased Components 6](#_Toc465091115)

[3.9 Interfaces 6](#_Toc465091116)

[3.9.1 User Interfaces 6](#_Toc465091117)

[3.9.2 Hardware Interfaces 6](#_Toc465091118)

[3.9.3 Software Interfaces 6](#_Toc465091119)

[3.9.4 Communications Interfaces 6](#_Toc465091120)

[3.10 Licensing Requirements 6](#_Toc465091121)

[3.11 Legal, Copyright, and Other Notices 6](#_Toc465091122)

[3.12 Applicable Standards 6](#_Toc465091123)

[4. Supporting Information 6](#_Toc465091124)

[4.1 Overall Use Case Diagramm 6](#_Toc465091125)

Software Requirements Specification

# Introduction

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

## Purpose

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

## Scope

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

## Definitions, Acronyms, and Abbreviations

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

## References

* Blog: <https://tinf15b4lsmf.wordpress.com/>
* GitHub: <https://github.com/WowItsSoftwareEngineering/TINF15B4-LSMF>

## 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

# Overall Description

## Product Perspective

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

## 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.

## 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 .

## Assumptions and Dependencies

* IDE: Android Studio
* Version-Control: GitHub
* Scrum: JIRA
* Programming Language: Java, PHP
* Database: MySQL
* CI: None

# Specific Requirements

## Functionality

* [Register](https://github.com/WowItsSoftwareEngineering/TINF15B4-LSMF/blob/master/docs/Use-Cases/02_Register UC/UC_Register.docx)
* [Activate](https://github.com/WowItsSoftwareEngineering/TINF15B4-LSMF/blob/master/docs/Use-Cases/03_Activate UC/UC_Activate.docx)
* [Settings](https://github.com/WowItsSoftwareEngineering/TINF15B4-LSMF/blob/master/docs/Use-Cases/05_EditSettings UC/UC_EditSettings.docx)

## Usability

### Training Time

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

### Hardware Requirements

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

### Software Requirements

* The device doesn’t need to have any other apps preinstalled.

## Reliability

### Availability

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

### Mean Time to Repair

* up to 12 hours to repair the system

### Maximum Bug Rate

* (n/a)

### Bug Rate

* (n/a)

## Performance

### Response Time

* (n/a)

### Throughput

* (n/a)

### Capacity

* (n/a)

### Degradation modes

* (n/a)

### Resource utilization

* (n/a)

## Supportability

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

## Design Constraints

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

## On-line User Documentation and Help System Requirements

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

## Purchased Components

* DigitalOcean server with a MySQL database

## Interfaces

### User Interfaces

### Hardware Interfaces

* (n/a)

### Software Interfaces

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

### Communications Interfaces

* an internet connection via WLAN or mobile internet

## Licensing Requirements

* mentioning of the TMdb API in the about section

## Legal, Copyright, and Other Notices

* The software is free available on GitHub

## Applicable Standards

* (n/a)

# Supporting Information

## Overall Use Case Diagramm

