

# Software Requirements Specification: Revision 0

Group 5

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# 1 Introduction

This section of the SRS should provide an overview of the entire SRS.

## 1.1 Purpose

This SRS describes both the functional and non-functional requirements necessary for the system-to-be. Specifically, this document is intended for users or any parties interested in the BookZilla application. The objective is to allow potential users and stakeholders to gain insight into the main goals of the application, as well as the thought process behind it. This document aims to describe all the functionalities, necessary requirements, constraints, dependencies, and any other topics that may be of importance to the development of the application.

## 1.2 Scope

BookZilla is a recognition application that allows users to find books that they may have forgotten about, or simply to help them discover new books. It is designed for the Android platform. The application will take various user inputs, such as genre, theme, or description, and uses a separate expert for each one of these inputs. Using these experts, the application determines a list of books that each expert agrees on. This application has numerous benefits. For example, it has the potential to assist an individual in finally remembering the name of the marvelous book they once read some time ago. As stated above, it also could help in discovering new books, since it outputs a list of books. The goal of BookZilla is to be as accurate as possible with the given inputs, in order to fully realize these stated benefits.

## 1.3 Definitions, Acronyms, and Abbreviations

Term	Definition
User	An individual who interacts with the application in any way
Stakeholder	Individuals with an interest or concern in the application
API	(Application Programming interface) Set of subroutines used to assist in the completion of tasks within the application
Query	A request for data or information from a database
Properties of a Book	

Table 1: Definitions

## 1.4 References

[a)]Provide a complete list of all documents referenced elsewhere in the SRS Identify each document by title, report number (if applicable), date, and publishing organization Specify the sources from which the references can be obtained

## 1.5 Overview

The remainder of the document is divided among three chapters. Chapter two outlines the general functionality of the application alongside the characteristics and constraints surrounding the application and relevant stakeholders. Additionally, future requirements and functionalities are laid out.

Chapter three defines the technical specifications of the Android application required to perform its functionality. It consists of individual requirements and rationales to be implemented in order to achieve the intended result.

Finally, chapter four specifies criteria used to evaluate the operation of the application based on the requirements outlined in chapter three. It outlines how the system should operate to fulfill its functionality.

## 2 Overall Description

### 2.1 Product Perspective

BookZilla is a mobile application designed to make the process of searching for a book straightforward and simple. BookZilla can use different properties of a book to discover similar or related books. The software is not self contained as it requires access to the Google Books API to retrieve books based off of search terms. However this product is not a product that is a component of a larger system since Google Books API is not dependent on BookZilla.

### 2.2 Product Functions

This software is required to perform a variety of Functions. The major functions required include the following.

[1.]The Software will search for a list of books based on a distinct and determined set of search terms. For example, a use could use the application to search for books related to the author J.K. Rowling and who's title contains the term Harry or Potter. The software will search for a book that matches the users description of a book. The software will retrieve a list of books with a story related to the description of the book. The user is also able to search for related books based off of search terms. For example, if the user wanted to search for books with the related terms 'alien', 'space', and 'planet', the software would retrieve a list of related science fiction books. The software will provide the user with a detailed description of the book the user has selected from a retrieved list of books. The user will be able to get in depth information such as Author, Title, Publication Date, Publisher, Description, and ISBNs.

### 2.3 User Characteristics

Ability use an Android smart-phone. The user must at-least be able to open an App on the Android system. Since all Android systems are similar, user's ability use one

Android smart-phone can be applied across all Android smart-phones.

Familiarity with the Android user interface. The user must be able to use basic components such as buttons, text boxes.

Some knowledge about the book(s) that they are searching for. The user must have enough knowledge of the book(s) to come up with a short description(s) of the book(s) that they are searching for. This short description will be used by Bookzilla to find matching books.

## **2.4 Constraints must be tied to requirements**

- Bookzilla must be implemented for the Android operating system.
- Final version of Bookzilla must be delivered on the April 6<sup>th</sup>, 2018.
- Power consumption should be kept to a minimum to conserve the phones' battery.
- Communication over the internet must be kept to a minimum to conserve the limited bandwidth of mobile data.

## **2.5 Assumptions and Dependencies**

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- The user must download the application onto their respective android device in order to use the Bookzila application.
- The user is familiar with operating an android device.
- The android device in which Bookzilla is to be deployed on is in working condition.

## **2.6 Apportioning of Requirements**

- The ability of the user to create an account can be developed in version 2.0 or later.
- The ability of the user to store previous searches can be available in version 2.0 or later. The ability to export search history will follow from the ability to create an account on Bookzilla.
- Bookzilla version 1.0 will be available only in English. Languages other than English may be available in later versions.