Software Requirements Specification

for

Project MAD

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The purpose of the app is to be able to test communication with a database and perform CRUD (create, read, update, delete) operations from a mobile app. Using a simple hotel database as test data to perform CRUD operations.

1.2 Intended Audience and Reading Suggestions

The intended audience of this document is for professors and developers to understand the concepts of our software requirements. This SRS contains info about our project on how it will function. This info contains the description of the project, software interfaces, and system features. The overall way to read this document would be in order to learn more about this particular project.

1.3 Product Scope

The scope of our software is to be able allow users to perform CRUD operations from a mobile app to a database. To be able to understand the functionality of database communication from a mobile app and the common operations that are performed to a database, so that from this understanding bigger projects can be created from it.

1.4 References

2. Overall Description

2.1 Product Perspective

2.2 Product Functions

- Allow users to create a booking
- Allow users to delete a booking
- Allow users to update a booking
- Allow users to view all available hotels by location

2.3 User Classes and Characteristics

2.4 Operating Environment

2.5 Design and Implementation Constraints

2.6 User Documentation

2.7 Assumptions and Dependencies

3. External Interface Requirements

3.1 User Interfaces

User interface will be through an app on a mobile device. This app will have a few features that will be able to perform CRUD operations to the database in a simple hotel model. These features are:

- View Hotel Button- read available hotels
- Filter Hotels Available by Locations (ex. LA, Bakersfield, San Francisco)
- Book Button - see availability
- Unbook Button - delete booking of a room
- Update Booking - change dates, or change hotel

The app will be built in Android Studio and will communicate with a Firebase database to translate data.

3.2 Hardware Interfaces

The hardware interfaces our project will be using is mobile devices to connect with our app.

3.3 Software Interfaces

The software interfaces being used will be Firebase, Flutter, and Android Studio. Firebase will be used as our database host. Flutter will be used to create our UI. Android Studio will be used to get the application running on android devices.

3.4 Communications Interfaces

4. System Features

4.1 System Feature 1

4.1.1 Description and Priority

4.1.2 Stimulus/Response Sequences

4.1.3 Functional Requirements

REQ-1:
REQ-2:

Appendix A: Analysis Models

Will add a use case diagram and ER diagram.