Software Requirements Specification

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KIMS HOSPITAL APPLICATION

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1. <u>INTRODUCTION</u>

1.1 PURPOSE

The ultimate objective of this project is to create a JavaFX application that manages the basic functionalities of a hospital. This application intends to deliver a smooth and professional experience for the user to fulfill their required necessities.

1.2 DOCUMENT CONVENTIONS

This document uses the following conventions:
- JAVA – Programming Language
- GUI – Graphical User Interface

1.3 INTENDED AUDIENCE AND READING SUGGESTIONS

This application targets those who wish to enquire about hospital services and perform tasks online like booking their appointments with their required physicians.

1.4 PROJECT SCOPE

By providing all the required information to the user, this application intends to serve by

providing a user-friendly and efficient environment. The system is built on JavaFx and SceneBuilder application. Above all, this application gets the need of the user done with ease.

1.5 REFERENCES

- https://www.kimshealth.org/bahrain/ummalhassam/book-health-checkup/

- https://shifaaljazeera.com/packages

- https://www.javatpoint.com/javafx-tutorial

2. OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

The software application displays the:

- Doctor Details
- Book an Appointment Interface
- Health Package Selection

2.2 PRODUCT FEATURES

The major features of this product are that it allows the booking of appointment with a date selection feature. Also, the user can choose their required health package with an applied discount calculation feature that has been provided in the backend of this application.

2.3 OPERATING ENVIRONMENT

Operating environment for the airline management system is as listed below.   distributed database

- Client/server system
- Operating system: Windows, macOS, Linux
- Platform: JavaFx

2.4 ASSUMPTION DEPENDENCIES

We have assumed that our application will be used by patients as per their requirements and necessities. Thus, it will be used for the following applications.

- To check the doctor details
- To book appointment with doctor
- To select a health package

3. SYSTEM FEATURES

3.1 FUNCTIONAL REQUIREMENTS

§ **DESCRIPTION and PRIORITY**

  The hospital management application aims at satisfying the various needs of a patient at the comfort of their homes and this has been considered as our atmost priority and responsibility.

- **STIMULUS/RESPONSE SEQUENCES**
    - Search for various doctors that are available in the hospital
    - Search for the required health package
    - Book an appointment with the required physician

- **FUNCTIONAL REQUIREMENTS**
  - Client/Server System

4. <u>EXTERNAL INTERFACE REQUIREMENTS</u>

4.1 USER INTERFACES
- Front-end software: JavaFX, FXML
- Back-end software: Java

4.2 HARDWARE INTERFACES
- Windows/ macOS/ Linux

4.3 SOFTWARE INTERFACES

Software Used	Description
Operating System	Windows is preferable
JavaFx	Platform used to build the software

4.4 COMMUNICATION INTERFACES

This project supports every personal computer or equivalent. We are also in the process to deploy the same on the web.