**Software Requirements Specification**

**for**

Facility Management

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**Objects, Frameworks & Patterns**

**(Advanced Object Oriented Development)**

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# **Introduction**

## **Purpose**

The purpose of this Facility Management Project is to provide an accessible way to organize and interact with a database of facilities. The Facility Management Project is made with event space facilities in mind. Therefore all features of the program treat each facility as an event space that can be reserved.

## **Document Conventions**

All italicized terms are defined in Appendix A.

## **Intended Audience and Reading Suggestions**

The intended audience of this project is for a company that manages event space/s. From our program you can make reservations, schedule inspections, make maintenance requests, schedule maintenance jobs and much more. The program supports the ability to make a database of event space facilities and then add details to them to keep everything more organized.

## **References**

This document references the Spring Framework multiple times. Information on the Spring Framework can be found here: <https://spring.io/projects/spring-framework>

# **Overall Description**

## **Pro**ject **Perspective**

This project could best be described as an object oriented database of facility objects that allow a user to manage and organize details and reservations for each individual facility.

## **Pro**ject **Functions**

There are four main functions so far:

* Facility Reservations
* Facility Inspections
* Maintenance Requests
* Scheduling Maintenance

## **Operating Environment**

This program is made in Java and utilizes the Spring Framework.

## **User Documentation**

A detailed markdown document will be provided in GitHub as a README for developers wishing to run or edit the program.

## **Dependencies**

In order to implement Spring you need to download several libraries and add them to the program. The libraries, and links to download them, are listed below:

* [Commons IO 2.6](https://mvnrepository.com/artifact/commons-io/commons-io/2.1)
* [Commons Logging 1.2](https://mvnrepository.com/artifact/commons-logging/commons-logging/1.2)
* [Spring AOP 5.2.3](https://mvnrepository.com/artifact/org.springframework/spring-aop/5.2.3.RELEASE)
* [Spring Beans 5.2.3](https://mvnrepository.com/artifact/org.springframework/spring-beans/5.2.3.RELEASE)
* [Spring Context 5.2.3](https://mvnrepository.com/artifact/org.springframework/spring-context)
* [Spring Core 5.2.3](https://mvnrepository.com/artifact/org.springframework/spring-core)
* [Spring Expression 5.2.3](https://mvnrepository.com/artifact/org.springframework/spring-expression)

# **External Interface Requirements**

## **User Interfaces**

We have demonstrated its use within the Facility Management Client class. Just run that file and it will print out a bunch of information about the Facilities we have initialized.

**Appendix A: UMLs**

[Full UML can be found here.](https://drive.google.com/file/d/1-w8cbZpbka4NnSzSf5c7dv72xnveWVG6/view?usp=sharing)

