

# OJ - Apartment Management System

## Back Matter

Provided below is a document describing the FR and NFR requirements for this JavaFX based application.

**NOTE:** When referencing the repository, it is recommended to fetch any potential changes that may have occurred during absence; refer to the following command:

```
git fetch REMOTE-NAME
```

for our case, the main branch is `master`, and remote name is just `origin`.

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## Requirements

### Functional Requirements

Id	Description	Priority
FR1	The system should allow property managers to manage multiple apartment complexes.	#High
FR2	The system should provide a sub-system for tenant management, including lease management, rent collection, and maintenance requests tracking.	#High
FR3	The system should provide a sub-system for financial management, including income and expense tracking, budget management, and reports.	#High

Id	Description	Priority
FR4	The system should provide a sub-system for property management, including available units, and unit maintenance.	#Medium
FR5	The system should provide a sub-system for E2E communication with tenants, for repair requests and vice versa.	#Medium
FR6	The system should provide a sub-system for managing staff, tasks, and staff performance charts / metrics	#High
FR7	The system should provide a sub-system for guest registration, guest check-ins, which tenants are expecting to have guests, and VIP units for important guests.	#Low

## Non-Functional Requirements

Id	Description	Priority
NFR1	The system should be secure, with proper authentication and authorization mechanisms.	#High
NFR2	The system should be scalable to accommodate growth and increase of tenants.	#High
NFR3	The system should have an intuitive UI and user-friendly interface.	#High
NFR4	The system should be reliable with minimal downtime unless features are being implemented.	#Medium
NFR5	The system should be designed with modularity and maintainability in mind, documentation should be visible internally and externally.	#High
NFR6	The system should comply with industry standard and regulations.	#Low

## Stack & Tools

- [PostGreSQL](#)
- [Sass](#)
- [JavaFX](#)
- [MaterialFX](#)
- [SceneBuilder](#)

## Dependencies

- [HikariCP](#)
- [TinyLog](#)
  - [TinyLog - Website](#)

- [TinyLog - API](#)
- [TinyLog - Impl](#)
- [Apache Commons](#)
- [JDBI](#)
- [PostgreSQL Driver](#)
- [MaterialFX Theme](#)(Optional)
- [JavaTuples](#)
- [Hibernate - 6.4.4](#)

## Setup (IntelliJ) & Pom.xml

Additionally, there may be some issues when trying to configure your project on IntelliJ and pushing your code to the repository. If this is the case, refer to the commands below:

**NOTE:** Using the terminal in IntelliJ can be done using the following default macro `Go to View → Tool Windows → Terminal` or press `Alt F12`

```
// Add Origin
git remote add origin https://github.com/opencejav/spadesuite.git

// Check Set-Url (IntelliJ)
git remote set-url origin https://github.com/opencejav/spadesuite.git

// Check Remotes
git remote -v

// Clear Git Cache (Optional)
git config --global credential.helper cache

// Push to Repository
git push -u origin master
```

Configuring projects to use Sass with JavaFX will require plugin configuration for Maven archetype projects, and a little more setup for Gradle based projects. For this program, it is intended to use Maven as its dependency manager. Here is the following code to add to the `<plugin>` area within the `pom.xml` file:

```
<!-- Sass Compiler Plugin -->
<plugin>
  <!--
  https://mvnrepository.com/artifact/nl.geodienstencentrum.maven/sass-maven-
  plugin -->
  <groupId>nl.geodienstencentrum.maven</groupId>
  <artifactId>sass-maven-plugin</artifactId>
```

```
<version>3.7.2</version>
<configuration>

<sassSourceDirectory>${basedir}/src/main/resources/org/simple/simplepassword
manager/sass</sassSourceDirectory>

<destination>${basedir}/src/main/resources/org/simple/simplepasswordmanager/
styles</destination>
</configuration>
<executions>
  <execution>
    <id>update-stylesheets</id>
    <phase>generate-resources</phase>
    <goals>
      <goal>update-stylesheets</goal>
    </goals>
  </execution>
</executions>
</plugin>
```

## Source (s) cite

- None

## Reference(s) cite

- [Setup JavaFX w/ Sass](#)
- [Hibernate with JDBC | Standalone](#)

## Related

- None