

# Hotel Website/Management System

Team ABCFG

This project serves as a comprehensive tool for hotels to efficiently manage reservations and streamline guest interactions. By leveraging this system, hotels can optimize their booking processes, enhance guest satisfaction, and improve overall operational efficiency. Guests benefit from a seamless experience, enabling them to make reservations conveniently, access relevant information about their stay, and interact with hotel services seamlessly. With features tailored to both hotel staff and guests, this application aims to modernize and elevate the hospitality experience for all stakeholders involved.

## Description

All the source files for this application are in the “src” directory, under the source directory there are two more directories, “main” and “test/java”. Starting with the main directory you will see a folder with the repository name. In that folder there are 4 key directories.

Controllers, entities, repositories, and service. Controllers handle the data between the view and model, service handles the model side of things talking to the repositories, and the entities are the individual entities used for this application. Under the “java/test” directory is where all of our unit testing is stored for each service file since that is where the functionality goes. The “pom.xml” file is where all of our dependencies are stored that we used for this application.

## Getting Started

### Dependencies

Ensure you have the following prerequisites before installing the program:

- [IntelliJ IDEA](#) (link to download)

### Installing

- Download the program from the [GitHub repository](#).
- Clone or download the repository to your local machine.
- Make any necessary modifications to files or folders, if required.

# Executing program

Follow these steps to run the program:

- Open IntelliJ IDEA.

## INSTALLATION INSTRUCTIONS

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1. Unpack the IntelliJ IDEA distribution archive that you downloaded where you wish to install the program. We will refer to this location as your {installation home}.

2. To start the application, open a console, cd into "{installation home}/bin" and type:

```
./idea.sh
```

This will initialize various configuration files in the configuration directory:

```
~/.config/JetBrains/IntelliJIdea2024.1.
```

3. [OPTIONAL] Add "{installation home}/bin" to your PATH environment variable so that you can start IntelliJ IDEA from any directory.

4. [OPTIONAL] To adjust the value of the JVM heap size, create a file idea.vmoptions (or idea64.vmoptions if using a 64-bit JDK) in the configuration directory and set the -Xms and -Xmx parameters. To see how to do this, you can reference the vmoptions file under "{installation home}/bin" as a model, but do not modify it, add your options to the new file.

[OPTIONAL] Change the location of the "config" and "system" directories

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- Import the project into IntelliJ IDEA.
- Build and run the project using the IDE's built-in tools.

## Authors

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## Version History

- Demo 1
  - Initial Release
  - Advancement in multiple pages
  - Base entities and classes created
  - See [project overview](#) for more reference
- Demo 2
  - Basic functionalities developed
  - See [project overview](#) for more reference
- Demo 3
  - Most functionalities developed
  - Implemented account creation, room reservation management, admin and user functions, etc.
  - See [project overview](#) for more reference
- Demo 4
  - All functionalities developed
  - See [project overview](#) for more reference
- Final Implementation
  - Various bug fixes and optimizations
  - Testing implemented
  - GUI betterment
  - [JavaDoc](#) (download the full folder and run the index.html) documentation created
  - See [project overview](#) for more reference

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