**C868 – Software Capstone Project Summary**

**Task 2 – Section C**

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| **Capstone Proposal Project Name:** | http://www.idevnews.com/views/images/uploads/general/wgu_logo.png  Co-Working Lots |
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Task 2 Part C – C868 Software Development Capstone

# Application Design and Testing

# Design Document

## Class Design

Diagram

Description automatically generated The following diagram shows the design for the data classes and the relationships between them. Each data class in the diagram has a corresponding data object access class.

## Database Design

Diagram

Description automatically generatedChanges had to be made to the CWL customer database in order to accommodate booking information. In addition, two tables were added to the existing database schema. The diagram below illustrates the new database schema.

## UI Design

This section provides high and low-fidelity designs of the main navigation bar, customer management, and booking calendar. For each sub-section, "Figure 1" illustrates the low-fidelity design, and "Figure 2" illustrates the high-fidelity design.

### Main Navigation

Figure 1: Low Fidelity

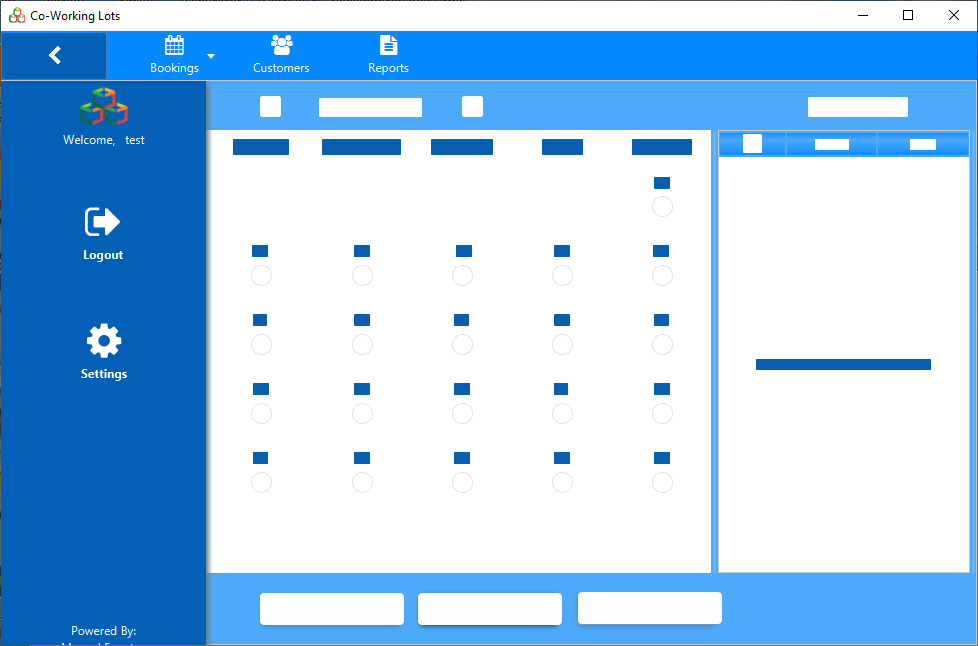


Figure 2: High Fidelity

### Booking Calendar View

Figure 1: Low Fidelity

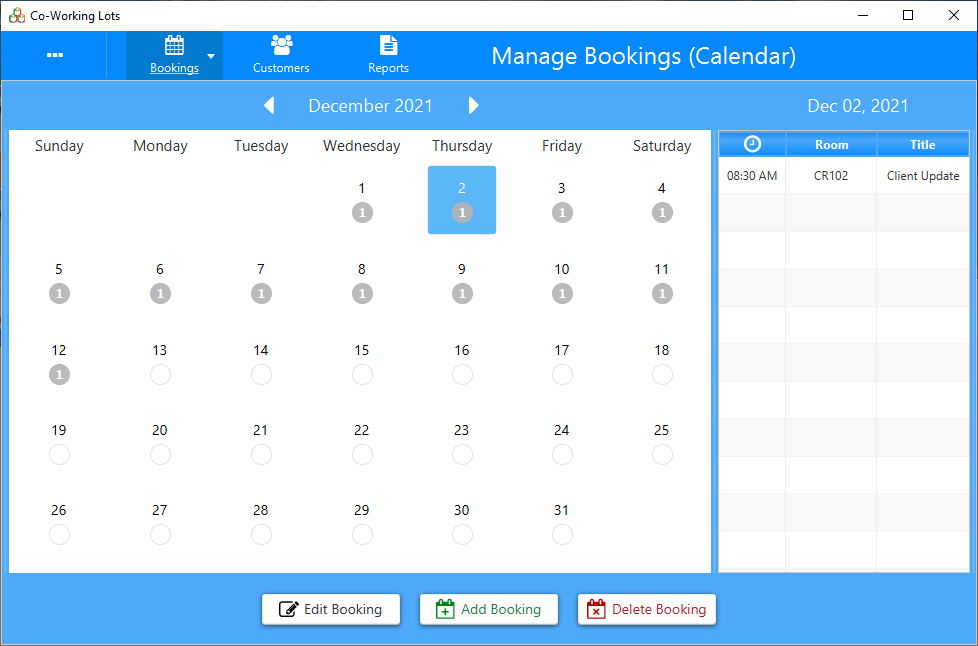


Figure 2: High Fidelity

### Customers View

Figure 1: Low Fidelity

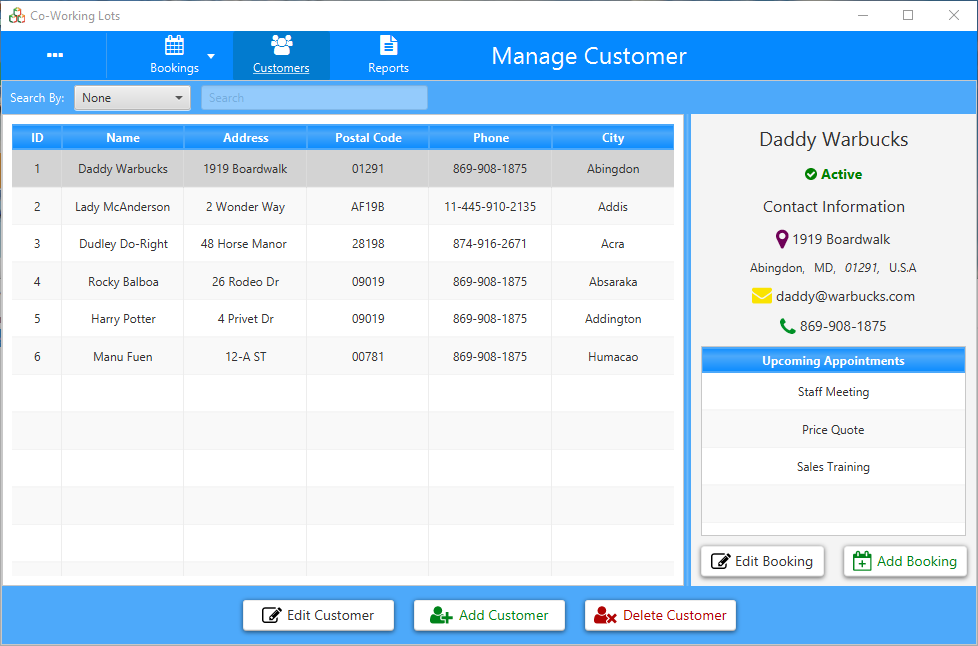


Figure 2: High Fidelity

# Unit Test Plan

## Introduction

### Purpose

Credential validation is essential for a secure login process, especially since the system implements a "salted" password approach. This test evaluated the functionality of the login process.

### Overview

The Login process is divided into four steps. The first step is querying the database for a match to the provided username. If the query returns a matching username, a second query retrieves the salt value associated with it. Next, a hash is generated from the provided password and the retrieved salt. Lastly, a third query determines whether the generated hash matches the hash associated with the username.

Testing will take place using the Junit testing framework. The unit test will invoke four methods, one for each step described above. If a test fails, the response is documented and assigned to a developer for correction. Testing is complete when all test cases pass.

## Test Plan

### Items

The test uses the "username" and "password" properties of the "User" class and a connection to the MySQL database.

### Features

The unit test is comprised of four test methods. Before any of these test methods are executed, a connection to the MySQL Database is established, and an instance of the "User" class is created. The four test methods are:

1. validUsernameTest():

Test whether the provided username exists in the database.

1. getUserSaltTest():

Tests whether the provided username has a salt attribute in the database.

1. getPasswordHashTest():

Test whether the password returns the correct hash attribute from the database.

1. secureLoginTest():

Test whether the provided username and password return a match from the database.

### Deliverables

The unit test produces a log window inside the IntelliJ IDE detailing the amounts of test methods passed along with details on the errors thrown for failed test methods.

### Tasks

Performing the test requires selecting the test folder in the IntelliJ Project Window and pressing Ctrl + Shift + F10. Alternatively, right-clicking the test folder and selecting the "Run All Tests" option will also achieve the desired result. For details on See the [debugging section](#_Debugging) for details.

### Needs

Requirements for this test involve:

1. IntelliJ IDEA Community Edition 2021.2.2

2. Junit 5.7.1

3. Internet connection to access the database.

### Pass/Fail Criteria

Criteria for passing or failing a test were established using JUnit's assertion methods. An "expected" and "actual" variable are declared inside each test method, followed by an assertion that compares both values. If the "expected" variable's value matches the "actual" value, the test is considered as passed.

## Specifications

The following image shows the code used in the unit test.

Text

Description automatically generated

## Procedures

The procedures implemented were:

1. Opening the project using the IntelliJ IDE
2. Running JUnit test
3. Analyzing Results

## Results

The JUnit Framework provides the test results. The image below shows the test results.

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hbnVlbCBGdWVudGVzAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTEAAJKSAAIAAAADOTEAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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g+qYj/AJ9y+5jaKd5b/wBxvyo8t/7jflR7SHdB9UxH/PuX3MbRTvLf+435UeW/9xvyo9pDug+qYj/n3L7mNop3lv8A3G/Kjy3/ALjflR7SHdB9UxH/AD7l9zG0U7y3/uN+VHlv/cb8qPaQ7oPqmI/59y+5jaKd5b/3G/Kjy3/uN+VHtId0H1TEf8+5fcxtFO8t/wC435UeW/8Acb8qPaQ7oPqmI/59y+5jaKd5b/3G/Kjy3/uN+VHtId0H1TEf8+5fcxtFO8t/7jflR5b/ANxvyo9pDug+qYj/AJ9y+5jaKd5b/wBxvyo8t/7jflR7SHdB9UxH/PuX3MbUVx/x7v8ASp/Lf+435VHPFIYGARicdAKPaQ7oPqmI/wCfcvuZl0VL9mn/AOeMn/fBo+zT/wDPGT/vg1PtIdyvqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5kVFS/Zp/wDnjJ/3waPs0/8Azxk/74NHtIdw+qYj/n3L7mRUVL9mn/54yf8AfBo+zT/88ZP++DR7SHcPqmI/59y+5mlpP/Ho3++f5CinaYjx2rCRWU7ycMMdhRXzWKadaTR+35FGUcsoxkrOx//Z)

# C4. Source Code

The attached zip "capstoneC868.zip" contains the source code for the application.

# C5. Link to Live Version

The attached zip capstoneC868.zip contains the live version. Once extracted, run the executable file and use the username "test" and password "testPass" to access the application. The live application is connected to a cloud-based MySQL instance, so no configuration is necessary for the tester.

# User Guide

## Introduction

This guide will include installing, logging into, and using all the application's functions on a Windows 10 operating system.

## Installation

Prerequisites:

* Windows 10 operating system

Process:

1. Extract the contents of the "capstoneC868" folder.

A picture containing diagram

Description automatically generated

## Launching Application

Prerequisites:

* Java SDK 17

Process:

1. Double click the capstone.exe file.

Graphical user interface, application

Description automatically generated

## Debugging

Prerequisites:

* Java SDK 17
* IntelliJ IDEA Community Edition 2021.2.1
* JUnit 5.7.1

Process:

1. Complete the [installation process](#_Installation).
2. Graphical user interface, application, Word

   Description automatically generatedRight-click on the extracted folder and select "Open Folder as IntelliJ IDEA Project.".

## Using the Application

### Login

1. Type your username and password in the corresponding fields.

A picture containing rectangle

Description automatically generated

1. Click the Login Button.

Graphical user interface

Description automatically generated with low confidence

### Logout

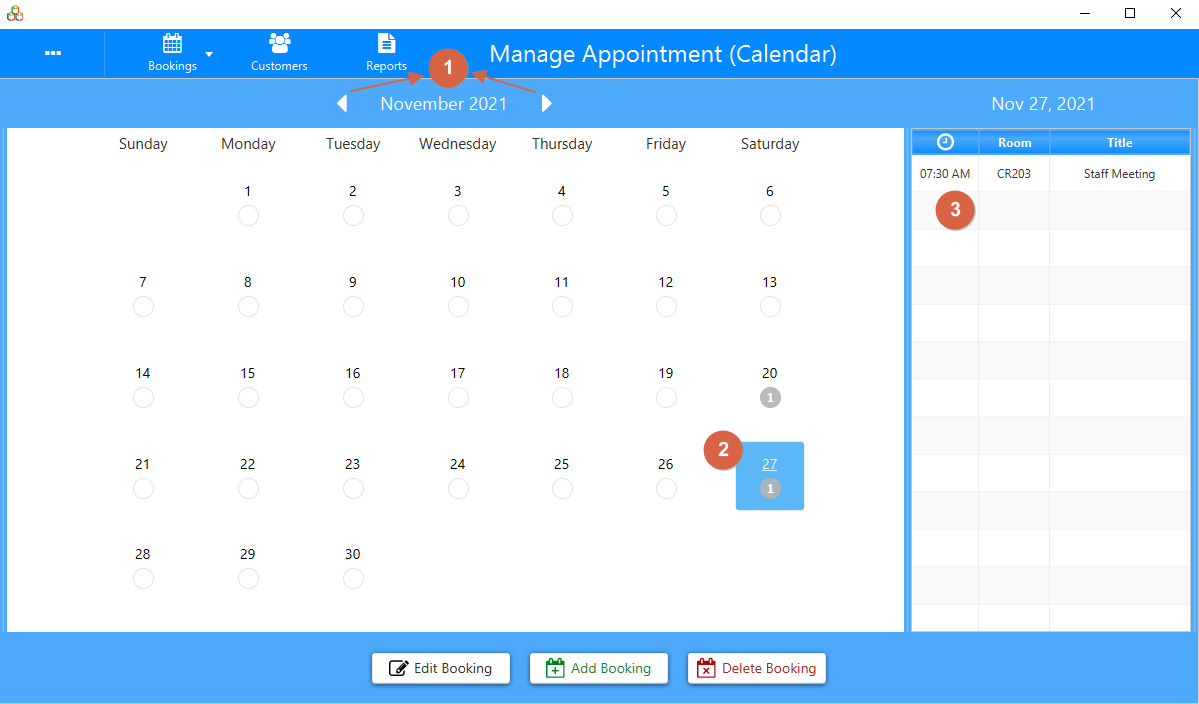
1. Click the three-dot icon on the far left of the top navigation bar.
2. Click the "Logout" button.
3. Graphical user interface

   Description automatically generatedClick the "Ok" button.

### Booking Calendar View

Calendar view presents appointments in a calendar format, allowing you to view appointments scheduled for a specific date. To access the calendar view, click on the calendar icon of the bookings button or press Alt + B on your keyboard.

#### Viewing Bookings

1. Click on the next and back buttons to navigate to the desired month.
2. Click on a date.
3. Appointments are displayed on the right side.

#### Adding Bookings

1. Click on the Add button, and a new window will appear.
2. Type the title: allows only alphanumeric values.
3. Type the description: allows alphanumeric values and the following symbols (.,#-'?!).
4. Select the booking type: select a value from the drop-down list.
5. Select the date: select a date from the date-picker.
6. Select the start time: select a value from the drop-down list. Values are based on 30-minute increments of operating hours of the selected date.
7. Select the end time: select a value from the drop-down list. Values start 30 minutes after the selected Start Time.
8. Select the location: select a value from the drop-down list. Values only display locations that have no appointments scheduled for the selected date and time.
9. Select the customer: select a value from the drop-down list. Auto-complete allows you to type a name.
10. Click the save button.

Graphical user interface, application

Description automatically generated

#### Edit Bookings

The edit button is disabled when the selected date does not have scheduled appointments.

1. Select an appointment from the table view.
2. Click the edit button.
3. Make the changes to the fields. Any change to the date or time fields will cause the location to be reset because a location's availability depends on the selected date and time.
4. Graphical user interface, application

   Description automatically generatedClick the "Update" button.

#### Delete Bookings

1. Select an appointment from the table view.
2. Click the "Delete Booking" button.
3. Graphical user interface, application, table

   Description automatically generatedClick the "OK" button.

### Booking Table View

Chart

Description automatically generatedTable view presents bookings in a table format. It allows you to search bookings by their titles and apply a date filter to view bookings that start on a specific day, week, or month. To access the table view, click on the downward caret icon of the bookings button and select the "Table View" option, or press Alt + Shift + T on your keyboard.

#### Search Function

1. Click on the search field and type the title you are looking for.
2. Graphical user interface, application, table

   Description automatically generatedThe table will automatically update to show only the bookings that your search criteria.

#### Date Filters

By default, the date filter is set to "None.". The date filter allows you to view bookings for a specific day, week, or month.

##### Filtering by a specific day:

1. Graphical user interface, application

   Description automatically generatedClick on the "Date Filter" box and select the "Day" option.
2. Graphical user interface, application

   Description automatically generated with medium confidenceA calendar picker will appear. Select the day by which you want to filter.
3. Graphical user interface

   Description automatically generatedThe table will update to display only bookings occurring on the day you selected.

##### Filtering by a specific week:

1. Graphical user interface, application

   Description automatically generatedClick on the "Date Filter" box and select the "Week of Year" option.
2. Graphical user interface, application, table

   Description automatically generatedA calendar picker will appear. To choose a week, select any of its seven days. For example, selecting 12/01/2021 will show all bookings occurring during the 49th week of 2021. Only bookings with a start date between Sunday, November 28th, 2021, and Saturday, December 4th, 2021, will be displayed.
3. The table will update to only display bookings for the week you selected.

Graphical user interface

Description automatically generated with low confidence

### Customers View

This view allows you to manage the customers' database. To access the table view, click on the "Customers" button from the top navigation, or press Alt + C on your keyboard.

#### Overview

1. Search Filter Combo Box
2. Search Text Field
3. Customers Table
4. Customer Details
5. Customer Upcoming Bookings
6. Edit Booking Button - disabled when the selected customer does not have upcoming bookings.
7. Add Booking Button - disabled when selected customer's account is inactive.
8. Edit Customer Button - disabled when selected customer's account is inactive.
9. Add Customer Button.
10. Delete Customer Button - disabled when selected customer's account is inactive.

Graphical user interface, application

Description automatically generated

#### Search Function

By default, the search filter is set to "None".

1. Graphical user interface, application

   Description automatically generatedSelect the field by which you want to search.
2. Type the search criteria.
3. The table will automatically update to show only the bookings that your search criteria.

Table

Description automatically generated

#### Adding a customer

1. Click the "Add Customer" button.
2. A new window will appear.
3. Type the name. The field allows only alphanumeric values.
4. Type the address. The field allows alphanumeric values and the following symbols(.,#-).
5. Type the postal code. The field allows numeric values and the following symbols(-).
6. Type the phone number. The field allows numeric values and the following symbols(-).
7. Type the email address. The field allows unique, valid email addresses.
8. Select the state of residence: select a value from the drop-down list.
9. Select the city of residence: select a value from the drop-down list. Auto-complete allows you to type a name.
10. Click the save button.

Graphical user interface, application

Description automatically generated

#### Editing a customer

The edit button is disabled when the selected date does not have scheduled appointments.

1. Select a customer from the table view.
2. Click the edit button.
3. A new window will appear.
4. Make the changes to the fields.
5. Click the "Update" button.

Graphical user interface, application

Description automatically generated

#### Deleting a customer

1. Select a customer from the table view.
2. Click the "Delete Customer" button.
3. Click the "OK" button.

Graphical user interface, text, application

Description automatically generated

#### Adding appointment for a customer

1. Click the "Add Booking" button.



1. Follow the steps in the ["Adding Booking"](#_Adding_Bookings) section.

#### Editing a customer's upcoming appointment

1. Click the "Edit Booking" button.



1. Follow the steps in the ["Editing Booking"](#_Edit_Bookings) section.

### Reports View

This view allows you to generate reports. To access the reports view, click on the "Reports" button on the top navigation bar or press Alt + R on your keyboard.

#### Overview

1. Report Type Combo Box.
2. Generate Report Button.
3. Report Results.

Graphical user interface, text, application, email

Description automatically generated

#### Generate Customer Schedule Report

1. Click the "Report Type" Combo Box.
2. Graphical user interface, text, application, chat or text message

   Description automatically generatedSelect the "Customer Schedule" option.
3. Another Combo Box will appear. Click the downward caret icon.
4. Select a customer.
5. Graphical user interface, text, application, chat or text message

   Description automatically generatedClick the "Generate Report" button.
6. Graphical user interface, text, application

   Description automatically generatedReport results are displayed.