

## C868 – Software Capstone Project Summary

### Task 2 – Section C



#### Capstone Proposal Project

**Name:** Appointment Scheduler for Local College

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**Student Name:** Ned Imhoff 005917082

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# Appointment Scheduler for Local College

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Task 2 Part C – C868 Software Development Capstone

## **Application Design and Testing**

### **Design Document**

#### **Class Design**

A UML diagram serves as a visual blueprint that captures the key elements and relationships within a system. The following UML diagram will highlight the relationships between Appointments, Contacts (Faculty), Customers (Students), and Users (Administrators).

The Appointments class is essential in the system and links with other classes. It implements the Searchable interface for search functionality.

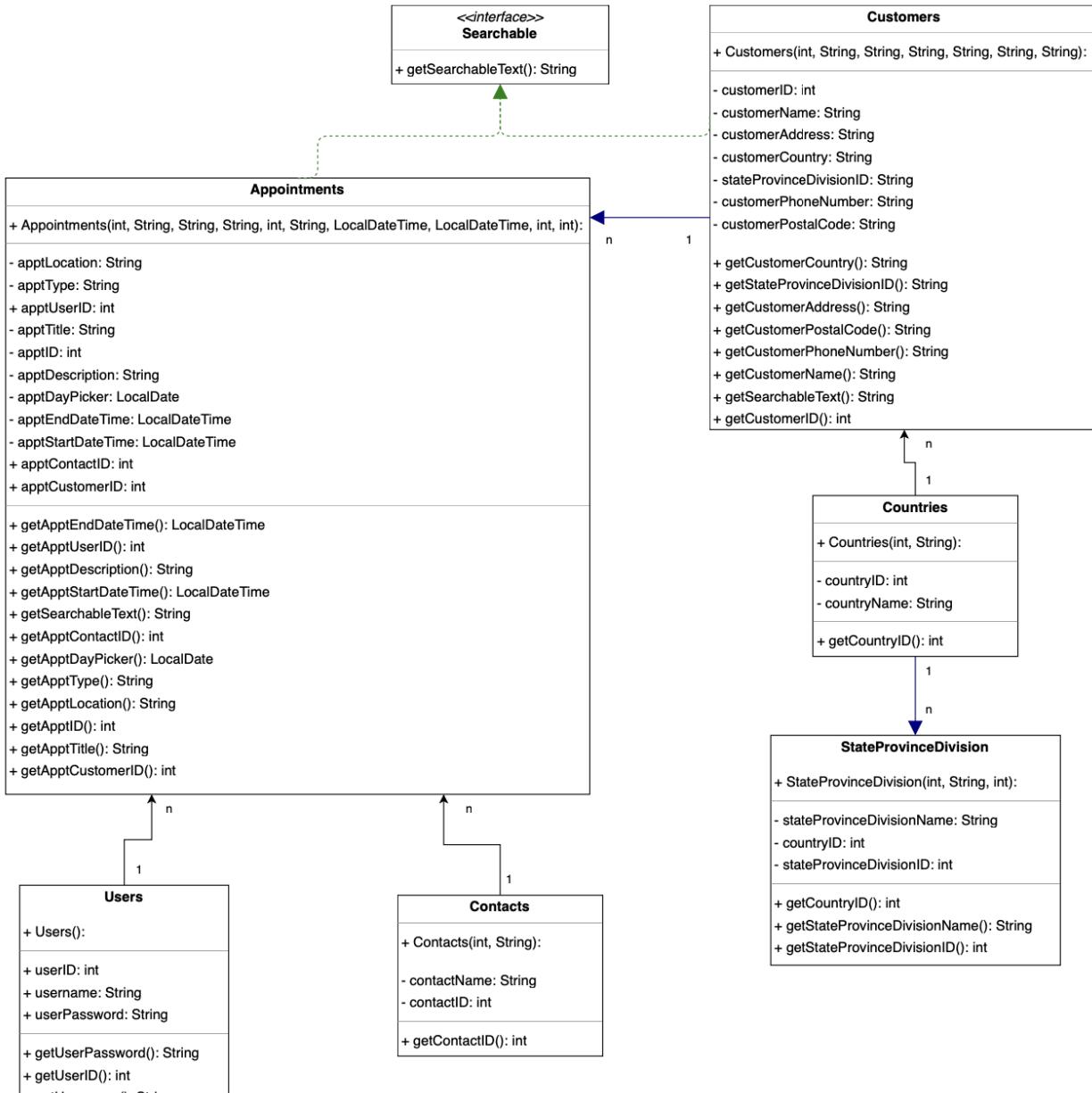
Contacts (also known as Faculty) holds info about contacts (Faculty), identified by contactID and contactName. Contacts have a one-to-many relationship with Appointments where one contact (Faculty) can have multiple appointments.

Customers (also known as Students) contains customer (Student) details, and the Customers class is a one-to-many relationship with Appointments, meaning one customer (Student) can have multiple appointments. Customers also implements the Searchable interface for search functionality.

Users (also known as Administrators, the staff accessing the software) have a one-to-many relationship with Appointments. One User (Administrator) can generate many appointments.

Class methods are noted by the () such as “getApptStartTime()” and private methods are noted with a minus sign (-).

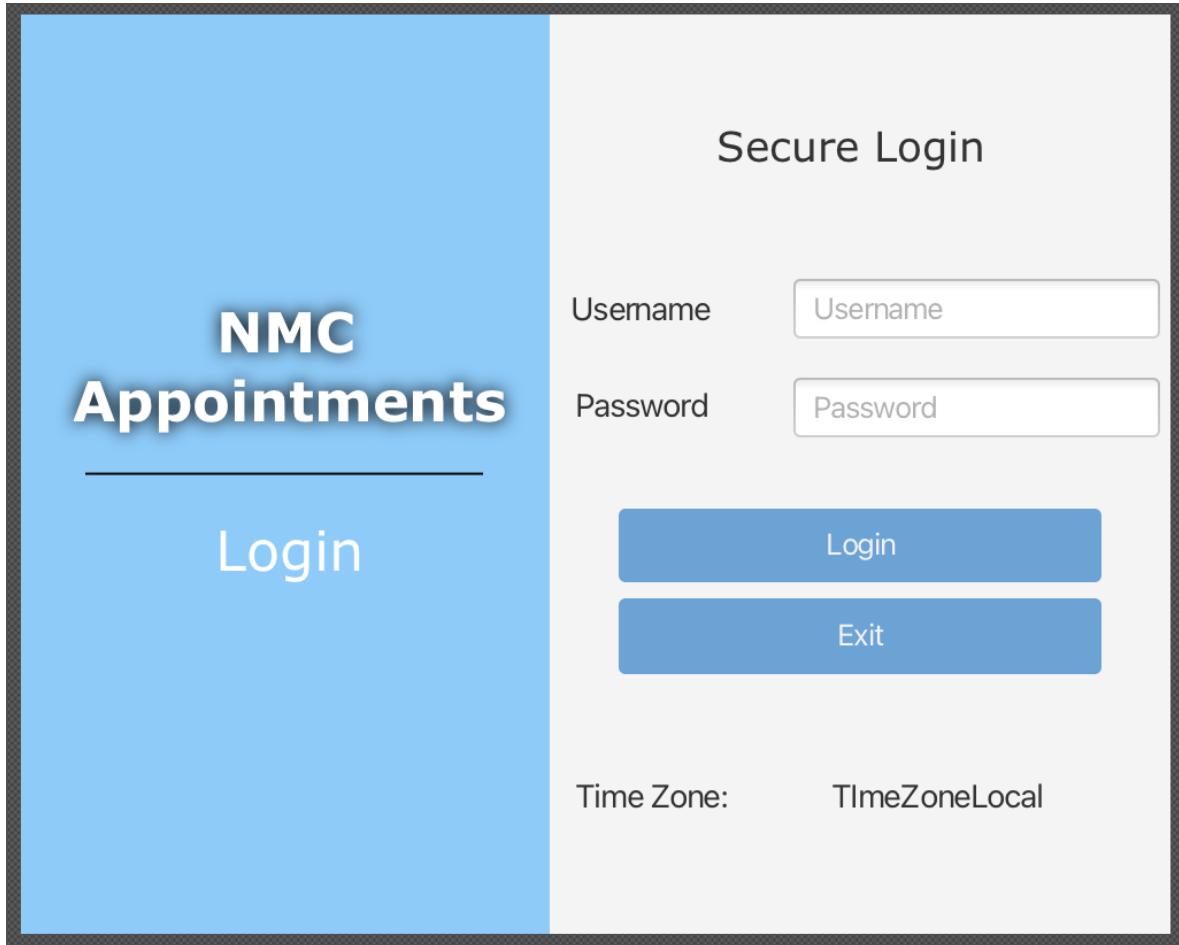
## Appointment Scheduler for Local College



## UI Design

The following will show the different pages of the user interface.

Below is the secure login. Users access the application from this screen.



## Appointment Scheduler for Local College

Below is the main page.

The Scheduled Appoints displays appointments. These appointments can be viewed by “All” “Week” or “Month” using the radio selection to the right. This section can also be searched using the search bar. The buttons “Add New Appointment” and “Update Selected Appointment” will bring up new windows to enter necessary info. The “Delete Selected Appointment” performs its described action following a verification prompt asking the user if they wish to indeed delete the appointment.

The Students section displays all student information. The search bar searches through this section. The buttons “Add New Student” and “Update Selected Student” will bring up new windows to enter necessary info. The “Delete Selected Student” will delete the student and all associated appointments to the student after the user is prompted by a verification popup asking them if they wish to perform this action.

The “Reports” button opens a page to generate reports.

The “LogOut” button closes the application.

The screenshot shows a web-based application titled "NMC" with a light blue header and footer. The main content area is divided into two sections: "Scheduled Appointments" and "Students".

**Scheduled Appointments Section:**

- Header: "View appointments by :  All  Week  Month".
- Search bar: "Search: Search Appointment Title".
- Table Header: "Appt ID | Title | Description | Location | Faculty | Type | Start Date/Time | End Date/Time | Student ID | User ID".
- Table Body: "No content in table".
- Buttons: "Add New Appointment", "Update Selected Appointment", "Delete Selected Appointment".

**Students Section:**

- Header: "Students" and "Search: Search Student Name".
- Table Header: "Student ID | Name | Address | Postal Code | Country | State/Province | Phone Number".
- Table Body: "No content in table".
- Buttons: "Add New Student", "Update Selected Student", "Delete Selected Student".

**Footer:**

- Buttons: "Reports" and "Log Out".

## Appointment Scheduler for Local College

When a user clicks the “Add New Appointment” button from the main view, this view is displayed. The Appointment ID is auto generated. All fields are required in order to save. When “Save” is clicked the data is saved and the main view is populated again. Cancel will disregard the form and return to the main view. If there are conflicts with other appointments an error message will appear directing the user to correct the conflict. The time zone will automatically populate to the local computer time.

Add New Appointment

Appointment ID	<input type="text"/>
Title	<input type="text"/>
Type	<input type="text"/>
Description	<input type="text"/>
Location	<input type="text"/>
Date	<input type="text"/> 
Start Time	<input type="text"/>
End Time	<input type="text"/>
Student ID	<input type="text"/>
User ID	<input type="text"/>
Faculty	<input type="text"/>

Local time zone  
eastCoastTimeZone

## Appointment Scheduler for Local College

When a user clicks “Update Selected Appointment” the following view will be displayed. This view will auto populate all the data from the selected appointment. When changes are made and Save is clicked, the appointment will be saved. If there is a conflict with the appointment time an error will display prompting the user to update the information. Clicking the Cancel buttons returns to the main view. The time zone will automatically populate to the local computer time.

**UPDATE Appointment**

Appointment ID	<input type="text"/>
Title	<input type="text"/>
Type	<input type="text"/>
Description	<input type="text"/>
Location	<input type="text"/>
Date	<input type="text"/> 
Start Time	<input type="text"/>
End Time	<input type="text"/>
Student ID	<input type="text"/>
User ID	<input type="text"/>
Faculty	<input type="text"/>

[currentSystemTimeZone](#)  
[eastCoastTimeZone](#)

## Appointment Scheduler for Local College

When a user clicks the “Add New Student” button, the following view is displayed. The Student ID is auto populated. All fields are required in order to save. When Save is clicked the data is saved and the main view is shown. When Cancel is clicked a pop up prompt asks the user if this is their desired action, and if yes, then the main view is shown.

The screenshot shows a modal dialog titled "Add New Student". The form contains seven input fields: "Student ID" (auto-populated), "Name", "Address", "Postal Code", "Country" (dropdown menu), "State/Province" (dropdown menu), and "Phone Number". At the bottom are two buttons: "Save" and "Cancel".

Field	Type	Description
Student ID	Text	Auto-populated
Name	Text	
Address	Text	
Postal Code	Text	
Country	Dropdown	
State/Province	Dropdown	
Phone Number	Text	

## Appointment Scheduler for Local College

When the “Update Selected Student” button is clicked, the following view displays. All fields are auto populated according to the data on file. The Student ID cannot be changed. When Save is clicked the student data is updated and the main view is displayed. When the Cancel button is clicked the main view is displayed.

### UPDATE Student

Student ID

Name

Address

Postal Code

Country

State/Province

Phone Number

## Appointment Scheduler for Local College

When a user clicks the “Reports” button, the following report view is displayed. This Report organizes appointments by faculty. The user clicks the drop down bar and selects the faculty member by name. When a faculty is selected the “Report Title:” dynamically adjusts to read “Report: *Faculty Name*” and the Date-Time Stamp also dynamically updates to show the current date time stamp. When the user clicks the Return button the main view is displayed.

The screenshot shows a web-based application titled "NMC" with a blue header and a white content area. In the header, there is a logo and the text "Appointment Reports". Below the header, there is a navigation bar with three tabs: "Appointment Schedule by Faculty", "Appointments by Duration", and "Total Appointments by Type and Month". The first tab is highlighted. Below the navigation bar, there is a dropdown menu labeled "Report by Faculty:" with a dropdown arrow. To the right of the dropdown, the text "Report Title:" is displayed in bold, followed by "Date-Time Stamp" below it. A table header row is shown with columns: "Appointment ID", "Student Name", "Title", "Type", "Description", "Start Date/Time", and "End Date/Time". Below the table header, the text "No content in table" is displayed. At the bottom of the page, there is a "Return" button.

## Appointment Scheduler for Local College

This is another report for analysis purposes. It calculates appointment duration.

The screenshot shows a web-based application titled "NMC Appointment Reports". The top navigation bar includes three tabs: "Appointment Schedule by Faculty", "Appointments by Duration" (which is currently selected), and "Total Appointments by Type and Month". Below the tabs is a table header with columns: "Appointment ID", "Duration", "Start Date/Time", "End Date/Time", and "Type". A message "No content in table" is displayed in the center of the table area. At the bottom of the page is a "Return" button.

This is another report for analysis purposes. It calculates total appointments by type and month.

The screenshot shows a web-based application titled "NMC Appointment Reports". The top navigation bar includes three tabs: "Appointment Schedule by Faculty", "Appointments by Duration", and "Total Appointments by Type and Month" (which is currently selected). On the left side, there are two dropdown menus: "Select Appointment Type" and "Select Appointment Month". Below these dropdowns are two text fields: "Total Appointments of Selected Appointment Type:" (value: 0) and "Total Appointments of Selected Month (for all years):" (value: 0). To the right is a table with columns: "Appointment ID", "Type", and "Month". A message "No content in table" is displayed in the center of the table area. At the bottom of the page is a "Return" button.

## Unit Test Plan

### Introduction

#### Purpose

The primary function of the software is to ensure appointment times for faculty are not double booked. The software was tested to see if faculty can be double booked. The first couple tests showed they could, and after an update to the logic of the software, the issue was corrected. The subsequent tests successfully prevented any faculty appointment time from being double booked.

#### Overview

As noted above, a core function of the software is to schedule appointments, and faculty cannot have double booked appointments. Similarly, students cannot have double booked appointments so this test was useful in ensuring the correct results were produced when working with the student logic. Preventing double booked appointments ensured the validity of the data going to the database.

The unit test added new appointments and specifically was trying to add appointment times that overlapped with faculty. For example, if a new appointment was made with faculty member “John” for 8:00-8:30 on 12/1/23 by student 777, a subsequent new appointment with faculty member “John” for 8:00-8:30 on 12/1/23 by student 888 would be invalid and the appointment should not be saved to the database. Furthermore, if a subsequent new appointment with faculty member “John” for 8:15-9:00 on 12/1/23 by student 999 was made, this also should be invalid and not saved to the database. If however, it was for 8:30-9:00, that would be valid.

The following details out how the unit test was conducted.

## Test Plan

### Items

To check that an overlapping appointment can't be made with the same faculty member, three model instances are required: one faculty and two appointments, all linked to the same faculty. The first appointment is assigned a specific start time and duration, then saved to the database. A second appointment is created with a start time overlapping the first one. A test is conducted to confirm that the second appointment has an error and won't be saved. Another test ensures that two non-overlapping appointments for the same faculty can be created successfully. This is done by setting the start time of the second appointment to avoid overlap with the first. Edge cases are examined by creating adjacent but non-overlapping second appointments, which are expected to be valid and saved to the database.

### Features

The code executing the test checks for overlapping appointment times with the same contact (faculty).

1. First it checks if the new appointment faculty ID is equal to an existing appointment with the same faculty ID.
2. If condition one is met, then the new appointment start time is checked against the end time of any existing appointment, and the end time of the new appointment is checked against the start time of any existing appointment. This looks for a time conflict or overlap between the new appointment and an existing one.
3. If there was a faculty match, and a time conflict from the first two steps, then that means there is an issue and the new appointment must be edited before being saved.

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The next step in the code tells the user what the problem is and what to fix in the appointment. This is done by an Alert Error message that provides information about the time conflict, including the faculty name “apptContactName”, existing start and end times, and a message asking the user to select a different time.

### **Deliverables**

The tests will trigger the Alert Error message if there is a conflict and will prompt the user to update the appointment so it can be valid. The alert's title is set to "Time Conflict," and the header text is set to null. The content text of the alert provides information about the time conflict, including the faculty name “apptContactName”, existing start and end times, and a message asking the user to select a different time. The “alert.showAndWait()” method displays the alert to the user, blocking further execution until the user acknowledges the alert.

## Appointment Scheduler for Local College

### Tasks

There are six tests to conduct noted in the chart below. Each test will select “Add New Appointment” from the main view. The relevant fields are noted in the first five columns of the table (all other fields in the new appointment view may be filled in with random filler). Of the six tests, the expectation is to receive two errors and four successful appointment creations.

Test #	Faculty	Date	Start Time	End Time	Student ID	ERROR Expected	Notes / purpose
1	Daniel Garcia	12/22/23	9:00	9:30	1	NO	appointment to test against
2	Daniel Garcia	12/22/23	9:00	9:30	2	YES	double booked
3	Li Lee	12/22/23	9:00	9:30	3	NO	new professor
4	Daniel Garcia	12/22/23	9:15	10:00	4	YES	overlapped appointment
5	Daniel Garcia	12/22/23	8:30	9:00	1	NO	low bookend
6	Daniel Garcia	12/22/23	9:30	10:00	1	NO	high bookend

### Needs

- IntelliJ JDE 17 in order to run the software and view the application UI.
- MySQL Workbench database to store the newly created appointments.

## Appointment Scheduler for Local College

### Pass/Fail Criteria

The criteria for a successful validation of a double booking or overlapping appointment instance is tests 2 and 4 triggering the Alert Error, and tests 1, 3, 5, and 6 successfully saving to the database.

The initial tests were allowing different students to schedule appointments with the same faculty during the same time (double booking). This failure prompted examination of the code to specifically address the error. As a result the code was updated and the error was patched.

### Specifications

```
318 // Check for overlapping times with the same contact
319 if (apptContactID == contactID) {
320     if ((startDateTime.isBefore(apptEndDateTime)) && (endDateTime.isAfter(apptStartTime))) {
321         Alert alert = new Alert(Alert.AlertType.ERROR);
322         alert.setTitle("Time Conflict");
323         alert.setHeaderText(null);
324         alert.setContentText("The selected time overlaps with an existing appointment for the same faculty. " +
325             " Faculty Name: " + apptContactName
326             + "\n\nExisting Start Time: " + apptStartTime.format(DateTimeFormatter.ofPattern("HH:mm"))
327             + "\n\nExisting End Time: " + apptEndDateTime.format(DateTimeFormatter.ofPattern("HH:mm"))
328             + "\n\nPlease select a different time.");
329         alert.showAndWait();
330         return; // Exit the method without saving the data
331     }
332 }
333 }
```

# Appointment Scheduler for Local College

## Procedures

For all tests, from the main view, the “Add New Appointment” button will be selected. All fields in the Add New Appointment view will be populated using the test number (for example “test 1”) and the following table data for specific fields.

Test #	Faculty	Date	Start Time	End Time	Student ID	ERROR Expected	Notes / purpose
1	Daniel Garcia	12/22/23	9:00	9:30	1	NO	appointment to test against
2	Daniel Garcia	12/22/23	9:00	9:30	2	YES	double booked
3	Li Lee	12/22/23	9:00	9:30	3	NO	new professor
4	Daniel Garcia	12/22/23	9:15	10:00	4	YES	overlapped appointment
5	Daniel Garcia	12/22/23	8:30	9:00	1	NO	low bookend
6	Daniel Garcia	12/22/23	9:30	10:00	1	NO	high bookend

# Appointment Scheduler for Local College

## Results

Test #1: No errors, appointment successfully saved.

The screenshot shows the 'Scheduled Appointments' section of the NMC application. At the top right, there is a 'View appointments by:' dropdown with three options: 'All' (selected), 'Week', and 'Month'. Below the dropdown is a search bar labeled 'Search: Search Appointment Title'. A table lists one appointment:

Appt ID	Title	Description	Location	Faculty	Type	Start Date/Time	End Date/Time	Student ID	User ID
1	test 1	test 1	test 1	Daniel Garcia	test 1	2023-12-22T09:00	2023-12-22T09:30	1	2

At the bottom of the page are three buttons: 'Add New Appointment', 'Update Selected Appointment', and 'Delete Selected Appointment'.

Test #2: Time Conflict error. Appointment was not saved. User is prompted to select a different time.

The screenshot shows the 'Add New Appointment' form. The user has entered the following information:

- Appointment ID: 2
- Title: test 2
- Type: test 2
- Description: test 2
- Location: test 2
- Date: 12/22/2023
- Start Time: 09:00
- End Time: 09:30
- Student ID: 2
- User ID: 2
- Faculty: Daniel Garcia

Below the form, status messages indicate the current time is 01:30 and the global consulting time is 01:30. At the bottom are 'Save' and 'Cancel' buttons.

A modal dialog box titled 'Time Conflict' is displayed, stating: "The selected time overlaps with an existing appointment for the same faculty. Faculty Name: Daniel Garcia". It also shows the existing start time (09:00) and end time (09:30). A message at the bottom says "Please select a different time." and an 'OK' button is at the bottom right.

## Appointment Scheduler for Local College

Test #3: No errors, appointment successfully saved.

The screenshot shows the 'Scheduled Appointments' section of the NMC application. At the top right, there is a 'View appointments by:' dropdown with three options: 'All' (selected), 'Week', and 'Month'. Below it is a search bar labeled 'Search: Search Appointment Title'. A table lists two appointments:

Appt ID	Title	Description	Location	Faculty	Type	Start Date/Time	End Date/Time	Student ID	User ID
1	test 1	test 1	test 1	Daniel Garcia	test 1	2023-12-22T09:00	2023-12-22T09:30	1	2
2	test 3	test 3	test 3	Li Lee	test 3	2023-12-22T09:00	2023-12-22T09:30	3	2

At the bottom of the table are three buttons: 'Add New Appointment', 'Update Selected Appointment', and 'Delete Selected Appointment'.

Test #4: Time Conflict error. Appointment was not saved. User is prompted to select a different time

The screenshot shows the 'Add New Appointment' form. The fields are filled as follows:

- Appointment ID: 3
- Title: test 4
- Type: test 4
- Description: test 4
- Location: test 4
- Date: 12/22/2023
- Start Time: 09:15
- End Time: 10:00
- Student ID: 4
- User ID: 2
- Faculty: Daniel Garcia

Below the form, status messages indicate the current time is 01:34 and the global consulting time is 01:34. At the bottom are 'Save' and 'Cancel' buttons.

A modal dialog box titled 'Time Conflict' is displayed, stating: 'The selected time overlaps with an existing appointment for the same faculty. Faculty Name: Daniel Garcia'. It also shows existing times: 'Existing Start Time: 09:00' and 'Existing End Time: 09:30', and a message 'Please select a different time.' An 'OK' button is at the bottom right of the modal.

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Test #5: No errors, appointment successfully saved.

Test #6: No errors, appointment successfully saved.

NMC
View appointments by :
 All
 Week
 Month

Scheduled Appointments
Search:

Appt ID	Title	Description	Location	Faculty	Type	Start Date/Time	End Date/Time	Student ID	User ID
1	test 1	test 1	test 1	Daniel Garcia	test 1	2023-12-22T09:00	2023-12-22T09:30	1	2
2	test 3	test 3	test 3	Li Lee	test 3	2023-12-22T09:00	2023-12-22T09:30	3	2
3	test 5	test 5	test 5	Daniel Garcia	test 5	2023-12-22T08:30	2023-12-22T09:00	1	2
4	test 6	test 6	test 6	Daniel Garcia	test 6	2023-12-22T09:30	2023-12-22T10:00	1	2

< >

[Add New Appointment](#)
[Update Selected Appointment](#)
[Delete Selected Appointment](#)

#### **C4. Source Code**

A compressed version of the source code can be found in the file:

DBClientAppV8 - Capstone - Ned Imhoff.zip

Application Login screen:

Username: test

Password: test

#### **C5. Link to Live Version**

[https://labclient.labondemand.com/LabClient/57b4b033-864a-4d1f-af80-fbe321785da7?  
rc=10](https://labclient.labondemand.com/LabClient/57b4b033-864a-4d1f-af80-fbe321785da7?rc=10)

When the VM is accessed, there is a shortcut folder on the desktop. Right click and open with IntelliJ.

Application Login screen:

Username: test

Password: test

## Appointment Scheduler for Local College

## User Guide

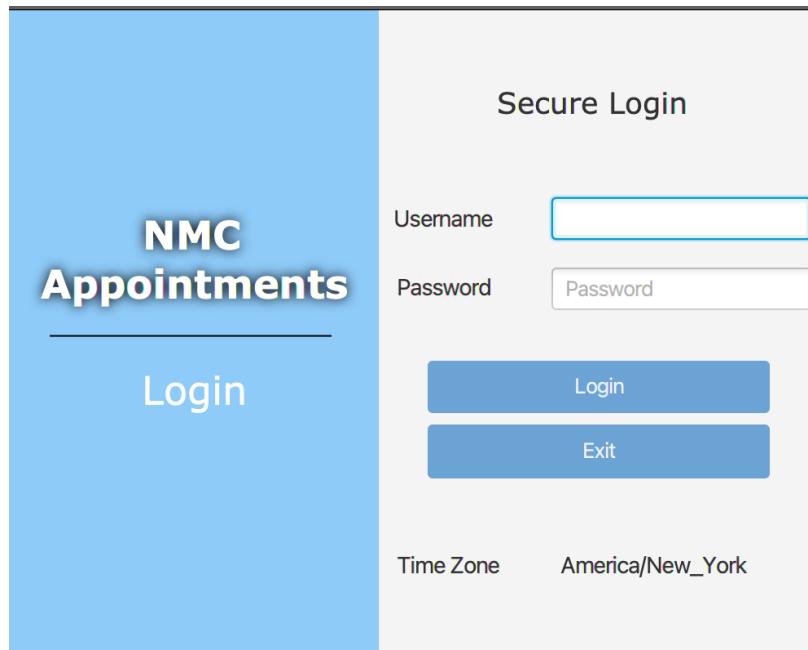
### Introduction

This guide outlines the steps to effectively navigate and utilize the client's appointment scheduling application. It covers instructions for tasks such as logging in, adding, updating, and deleting students and appointments. Additionally, it provides guidance on generating reports, and utilizing the search function.

### Installation and Using the Application

The application will be accessed by a virtual machine. There are no special installations needed for this application.

#### *Login*



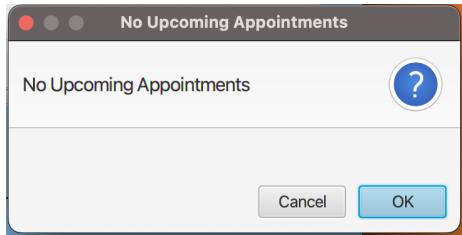
1. Type the following credentials into the "User Name" and "Password" text fields.

## Appointment Scheduler for Local College

- a. *Username = "test"*
  - b. *Password = "test"*
2. 2. Click the LOGIN button

### Main View

#### Upcoming Appointments



*You will be prompted with a pop up notifying you If there are any upcoming appointments within the next 15 minutes of logging on. Click OK or Cancel.*

# Appointment Scheduler for Local College

## Main View: Scheduled Appointments

The screenshot shows the main view of the Appointment Scheduler application. At the top, there is a header bar with the title "Appointment Reports" and the acronym "NMC". Below the header, there is a search bar labeled "Search: Search Appointment Title" and a button labeled "7". To the right of the search bar are three radio buttons for viewing appointments: "All" (selected), "Week", and "Month".

**1 Scheduled Appointments** is displayed above a table containing four rows of appointment data:

Appt ID	Title	Description	Location	Faculty	Type	Start Date/Time	End Date/Time	Student ID	User ID
1	test 1	test 1	test 1	Daniel Garcia	test 1	2023-12-22T09...	2023-12-22T09...	1	2
2	test 3	test 3	test 3	Li Lee	test 3	2023-12-22T09...	2023-12-22T09...	3	2
3	New Appo...	New Appo...	New Appointm...	Anika Costa	New Appointm...	2023-12-22T08...	2023-12-22T08:30	4	2
4	New	New	New	Li Lee	New	2023-12-22T12...	2023-12-22T12:45	2	2

Below the table are three buttons: "4 Add New Appointment", "5 Update Selected Appointment", and "6 Delete Selected Appointment".

**Students** is displayed above a table containing four rows of student data:

Student ID	Name	Address	Postal Code	Country	State/Province	Phone Number
1	Daddy Warbucks	1919 Boardwalk	01291	USA	New Jersey	869-908-1875
2	Lady McAnderson	2 Wonder Way	AF19B	UK	Scotland	11-445-910-2135
3	Dudley Do-Right	48 Horse Manor	28198	Canada	Northwest Territo...	874-916-2671
4	Matias Student	1234 College lane	80080	USA	Colorado	303-303-3030

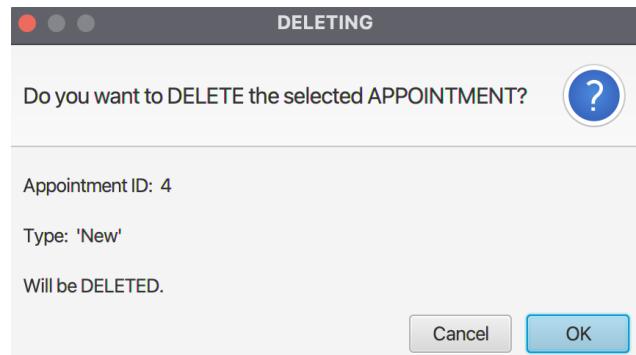
Below the table are three buttons: "Add New Student", "Update Selected Student", and "Delete Selected Student".

At the bottom of the screen, there are two buttons: "Reports" and "Log Out".

1. Item Scheduled Appointments:
  - a. The top section is titled Scheduled Appointments
2. Item Scheduled Appointments chart:
  - a. This chart displays the data stored in the various column and rows
3. Item Search:
  - a. The search field can be used to search all rows and columns from the Scheduled Appointments chart.
4. Item “Add New Appointment” button:
  - a. This allows the user to make a new appointment.

## Appointment Scheduler for Local College

5. Item “Update Selected Appointment” button:
  - a. This allows the user to update a selected appointment.
6. Item “Delete Selected Appointment” button:
  - a. This allows the user to delete a selected appointment.



- i. Users are displayed this message to confirm they want to delete an appointment.
7. Item View Appointments by:
  - a. These options allow a user to view the appointments by:
    - i. All: displays all appointments
    - ii. Week: displays appointments scheduled for the current calendar year week
    - iii. Month: displays appointments scheduled for the current calendar year month.

### Add New Appointment View

The screenshot shows a window titled "Add New Appointment" with a blue header bar and a white content area. The content area contains ten input fields: "Appointment ID" (with value "3"), "Title", "Type", "Description", "Location", "Date" (set to "12/22/2023"), "Start Time", "End Time", "Student ID", "User ID", and "Faculty". Below these fields is a status message: "Current Time: 04:07, Time Zone: America/New\_York" and "Global Consulting in East Coast Time: 04:07". At the bottom are two buttons: "Save" and "Cancel". The window has a dark blue border and is titled "NMC".

1. When “Add New Appointment” is clicked from the main view, this Add New Appointment view appears.
2. Item Appointment ID:
  - a. This field auto populates with a unique value and cannot be modified.
3. Item Title, Type, Description, and Location:
  - a. These are all text fields. They must be filled in.
4. Item Date:

## Appointment Scheduler for Local College

a.

Date 12/22/2023

Start Time

End Time

Student ID

User ID

- i. By selecting the calendar icon, a calendar will display. When a date is selected the calendar will disappear and the date will be selected.

### 5. Item Start Time and End Time:

a.

Start Time 08:00

End Time

Student ID

User ID

Faculty

Current Time: 08:30

Global Con

- i. These are combo boxes, available times will populate and when a time is selected that sets the time. (End times are automatically always after start times)

### 6. Item Student ID, User ID, and Faculty:

## Appointment Scheduler for Local College

a.

The screenshot shows a user interface for appointment scheduling. At the top, there are three dropdown menus: 'Student ID' with value '4', 'User ID' with value '2', and 'Faculty' with value 'Anika Costa'. Below these, a section titled 'Current Time: 0' displays a list of names: Anika Costa, Daniel Garcia, Anika Costa, and Li Lee. The name 'Anika Costa' is highlighted in blue, indicating it is the selected value for the 'Faculty' dropdown. A link 'Global Con...' is visible at the bottom of the list.

- i. These items are drop down boxes and you can choose the value needed from the options provided.

### 7. Item Save Button:

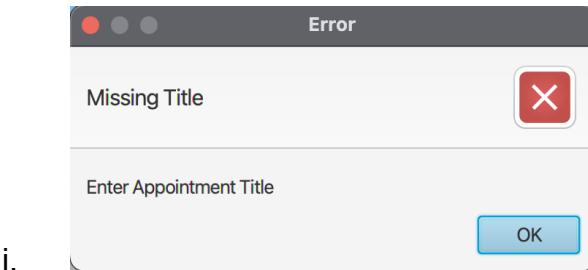
- a. When the save button is clicked, if all fields are filled in the appointment will be saved

b.

The screenshot shows a table titled 'Scheduled Appointments' with a search bar. The table has columns: Appt ID, Title, Description, Location, Faculty, Type, Start Date/Time, End Date/Time, Student ID, and User ID. There are three rows of data:

Appt ID	Title	Description	Location	Faculty	Type	Start Date/Time	End Date/Time	Student ID	User ID
1	test 1	test 1	test 1	Daniel Garcia	test 1	2023-12-22T09...	2023-12-22T09:...	1	2
2	test 3	test 3	test 3	Li Lee	test 3	2023-12-22T09...	2023-12-22T09:...	3	2
3	New Appo...	New Appo...	New Appoint...	Anika Costa	New Appointm...	2023-12-22T08...	2023-12-22T08:30	4	2

- c. If a field is missing an error message will prompt the user to fill that field:



## ***Update New Appointment View***

1. To update an appointment, select the appointment you wish to update, then click the Update Selected Appointment button.

# Appointment Scheduler for Local College

Scheduled Appointments					Search: <input type="text" value="Search Appointment Title"/>		Actions		
Appt ID	Title	Description	Location	Faculty	Type	Start Date/Time	End Date/Time	Student ID	User ID
1	test 1	test 1	test 1	Daniel Garcia	test 1	2023-12-22T09:00:00	2023-12-22T09:30:00	1	2
2	test 3	test 3	test 3	Li Lee	test 3	2023-12-22T09:00:00	2023-12-22T09:30:00	3	2
3	New Appo...	New Appo...	New Appoint...	Anika Costa	New Appointm...	2023-12-22T08:00:00	2023-12-22T08:30:00	4	2

Add New Appointment      Update Selected Appointment      Delete Selected Appointment

2. All the values associated with the appointment will auto populate.

Update Appointment

## UPDATE Appointment

Appointment ID:

Title: New Appointment

Type: New Appointment

Description: New Appointment

Location: New Appointment

Date: 12/22/2023

Start Time: 08:00

End Time: 08:30

Student ID:

User ID:

Faculty: Anika Costa

Current Time: 04:34, Time Zone: America/New\_York  
Global Consulting in East Coast Time: 04:34

- a.

  - i. Click Save to save the update or Cancel to discard any changes.  
Both buttons will return you to the main menu view.

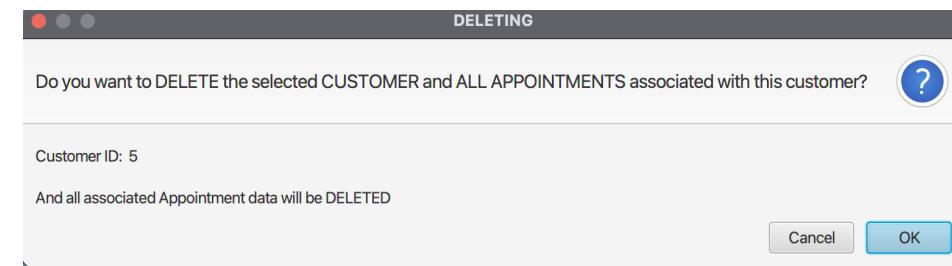
# Appointment Scheduler for Local College

## Main View: Students

The screenshot shows a web-based application for managing student information. At the top left, there is a red box labeled **1 Students**. To its right, a red box labeled **2 Search:** contains a search bar with the placeholder "Search Student Name". Below these are several buttons: **3 Add New Student**, **4 Update Selected Student**, and **5 Delete Selected Student**. In the center, there is a table with columns: Student ID, Name, Address, Postal Code, Country, State/Province, and Phone Number. The table contains four rows of data. At the bottom, there are two more buttons: **6 Reports** and **7 Log Out**.

Student ID	Name	Address	Postal Code	Country	State/Province	Phone Number
1	Daddy Warbucks	1919 Boardwalk	01291	USA	New Jersey	869-908-1875
2	Lady McAnderson	2 Wonder Way	AF19B	UK	Scotland	11-445-910-2135
3	Dudley Do-Right	48 Horse Manor	28198	Canada	Northwest Territo...	874-916-2671
4	Matias Student	1234 College lane	80080	USA	Colorado	303-303-3030

1. Item Student Title
  - a. Section title
2. Item Search:
  - a. Search all of the students' rows and columns.
3. Item “Add New Student” button:
  - a. When a user clicks this they can add a new student to the database.
4. Item “Update Selected Student” button:
  - a. When a user clicks this they can update a selected student’s data.
5. Item “Delete Selected Student” button:
  - a. When a user clicks this they can delete a selected student. This will also delete all associated appointments.



- i. 6. Item “Reports” button:

## Appointment Scheduler for Local College

- a. This button takes the user to the reports section.
7. Item “Log Out” button:
- a. This button logs the user off from the application.

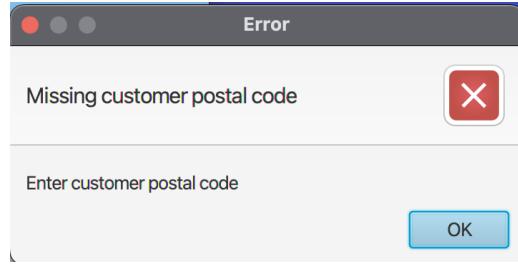
### Add New Student View

The screenshot shows a window titled "Appointment Reports" with a sub-title "Add New Student". The form contains fields for Student ID (auto-filled with "5"), Name, Address, Postal Code, Country, State/Province, and Phone Number. Below the form are "Save" and "Cancel" buttons.

Field	Type	Description
Student ID	Text	Auto populated with "5".
Name	Text	Text input field.
Address	Text	Text input field.
Postal Code	Text	Text input field.
Country	Dropdown	Selection dropdown.
State/Province	Dropdown	Selection dropdown.
Phone Number	Text	Text input field.

1. Item Student ID:
  - a. This field is auto populated and cannot be modified.
2. Items Name, Address, Postal Code, and Phone Number:
  - a. These fields are text fields and all must be filled in before saving.

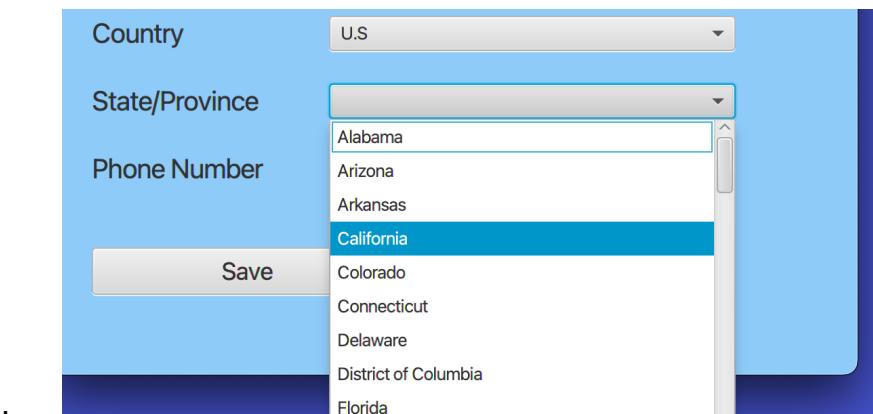
## Appointment Scheduler for Local College



- i.
- ii. Here is an example of the error that will be shown if a field is missing.

### 3. Items Country and State/Province:

- a. These are drop down menus to choose from



i.

### 4. Item Save button:

- a. When clicked the data is saved to the database.

### 5. Item Cancel button:

- a. When clicked any entered data is discarded.

### ***Update Selected Student***

The screenshot shows a modal dialog box titled "Update Customer" with a blue header bar. The main title inside the dialog is "UPDATE Student". The form consists of seven input fields: "Student ID" with value "5", "Name" with value "New Student", "Address" with value "New Student", "Postal Code" with value "New Student", "Country" with dropdown menu showing "USA", "State/Province" with dropdown menu showing "California", and "Phone Number" with value "800-800-8000". At the bottom are two buttons: "Save" and "Cancel".

1. When the user clicks on the “Update Selected Student” button, all the data is auto populated. Following necessary edits the user can click save to update the data.

### ***Reports***

## Appointment Scheduler for Local College

- When a user clicks on the Report button from the main view page, this page is displayed. The “Report by Faculty:” drop down menu holds faculty names. When a faculty name is selected the report updates to show the appointments associated with that faculty member:

## Appointment Scheduler for Local College

2. A user can click on the “Appointments by Duration” tab and that report will display.

3. A user can click on the “Total Appointments by Type and Month” tab to display that report as well.

**NMC**

## Appointment Reports

Appointment Schedule by Faculty | Appointments by Duration | Total Appointments by Type and Month

Select Appointment Type: New ▾

Total Appointments of Selected Appointment Type: 1

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Select Appointment Month: December 2023 ▾

Total Appointments of Selected Month (for all years): 4

Appointment ID	Type	Month
1	test 1	2023-12-22T09:00
2	test 3	2023-12-22T09:00
3	New Appointment	2023-12-22T08:15
4	New	2023-12-22T20:45

**Return**

- i. The drop down boxes allow the user to choose which appointment type or which month to filter results by.

4. By clicking the “Return” button the user is taken back to the main view page.

4. By clicking the "Return" button the user is taken back to the main view page.