

Project Summary

Problem Statement

Application Purpose: An Appointment System Application that provides a friendly UI interface for SQL operation on the database. Function such as generate report, view in month or week. Application has two tables customer and appointment, each can be adding new data, update or delete. View button will let you view all the appointments by month/week filter, the report will return a summary of appointments.

Solution

The program will break up into DAO, Controller, Model, View, and Utility.

- DAO(Data access object): This module will focus on MySQL connector, creating and establishing connections. Create a callback function to make queries to the MySQL database.
- Utility: This module focuses on time zone conversion, reading user time. Convert time to time block. Language localization, Resource-Bundle, etc.
- View: This module contains all FXML documents which are all the GUI elements of this application.
- Controller: This module focus on the control scene change of the application. Define the buttons callback function. Integrate and define all the elements in FXML.
- Model: This module focus on data class, creating object-oriented data types to define the array object, object, and sub-classes. All classes use the traditional set and get method, which provides additional layers of data security.

Programing Environment

Window 10/11

IDE: IntelliJ IDEA 2021.3.2 (Community Edition)

JDK: 17(Oracle OpenJDK version 17.0.1)

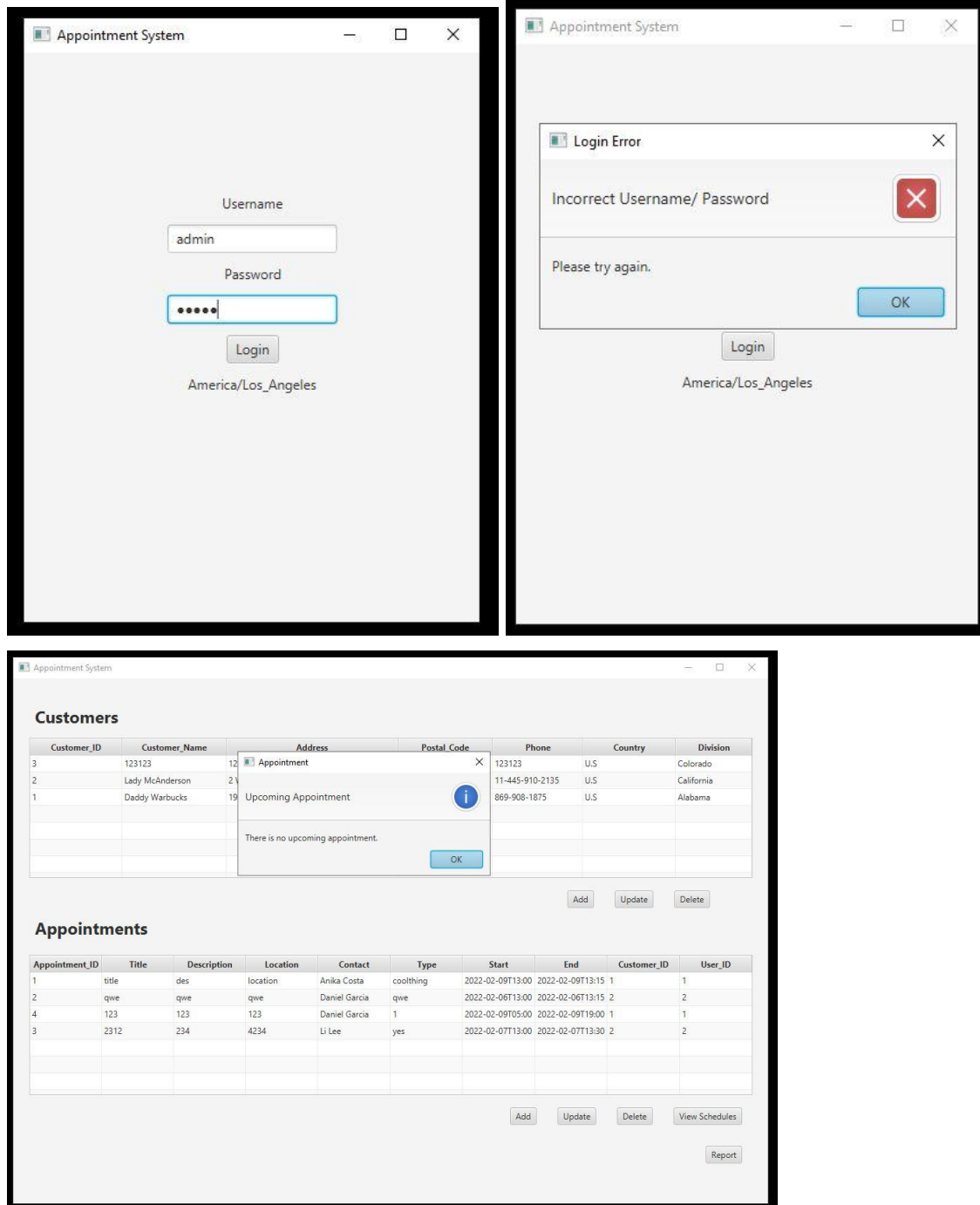
JavaFX: JavaFX-SDK-17.0.1

JavaDataBaseConnector: MySQL-connector-java-8.0.25.jar

Libraries Used

Java FX, No Other 3rd Party Libraries Used

Result



Appointment System

Customer ID:

Customer Name:

Address:

Postal Code:

Phone:

Country:

Division ID:

#1 Alabama
#2 Arizona
#3 Arkansas
#4 California
#5 Colorado
#6 Connecticut
#7 Delaware
#8 District of Columbia
#9 Florida
#10 Georgia

Appointment System

Appointment ID:

Title:

Description:

Location:

Contact Name:

Type:

Start Date & Time:

End Date & Time:

Customer ID:

User ID:

Save Cancel

Input Error

Input Error

The appointment is not in business hours (EST. 8AM - 10PM).

OK

Report

Report

----- Total Numbers of Customer Appointment By Type -----

coolthing: 1
yes: 1
qwe: 1
1: 1

----- Total Numbers of Customer Appointment By Month -----

January: 0
February: 4
March: 0
April: 0
May: 0
June: 0
July: 0
August: 0
September: 0
October: 0
November: 0
December: 0

----- The Schedule for Each Contact -----

Contact Name: Anika Costa
Appointment ID: 1 Title: title Type: coolthing Start: 2022-02-09T13:00 End: 2022-02-09T13:15 Customer ID: 1
Appointment ID: 3 Title: Meeting Type: yes Start: 2022-02-07T13:00 End: 2022-02-07T13:30 Customer ID: 2

Contact Name: Daniel Garcia
Appointment ID: 2 Title: qwe Type: qwe Start: 2022-02-06T13:00 End: 2022-02-06T13:15 Customer ID: 2
Appointment ID: 4 Title: 123 Type: 1 Start: 2022-02-09T05:00 End: 2022-02-09T19:00 Customer ID: 1

----- Last 10 Login Activity -----

User: admin UTC_Date&Time_Stamp: 2022-04-09 11:23:27.1723783 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-04-09 11:23:03.8694454 Attempt: Success
User: admin UTC_Date&Time_Stamp: null Attempt: Fail
User: admin UTC_Date&Time_Stamp: 2022-04-09 11:20:50.6528855 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-02-10 11:39:32.4814543 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-02-10 11:28:54.173687 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-02-10 11:20:23.0473822 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-02-10 11:19:24.4408169 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-02-10 11:17:06.5683035 Attempt: Success
User: admin UTC_Date&Time_Stamp: 2022-02-10 11:11:54.0841069 Attempt: Success

OK

Appointment System

Customer ID:

Customer Name:

Address:

Postal Code:

Phone:

Country:

Division ID:

#1 Alabama
#2 Arizona
#3 Arkansas
#4 California
#5 Colorado
#6 Connecticut
#7 Delaware
#8 District of Columbia
#9 Florida
#10 Georgia

Appointment ID:

Title:

Description:

Location:

Contact Name:

Type:

Start Date & Time:

End Date & Time:

Customer ID:

User ID:

Save Cancel

Division

Colorado
California
Alabama

Delete

View Schedules

Report

Project Link and Source Code

Appointment System Application in JAVA IntelliJ:

https://github.com/GiggleSamurai/JavaSQL_Project.git

NOTICE: The URL links are **not** clickable from GitHub pdf rendering, please download the pdf to click on the links. You can also access the project from the directory folder of this document. Both data set and project are contained in this folder.