User Manual Report
For
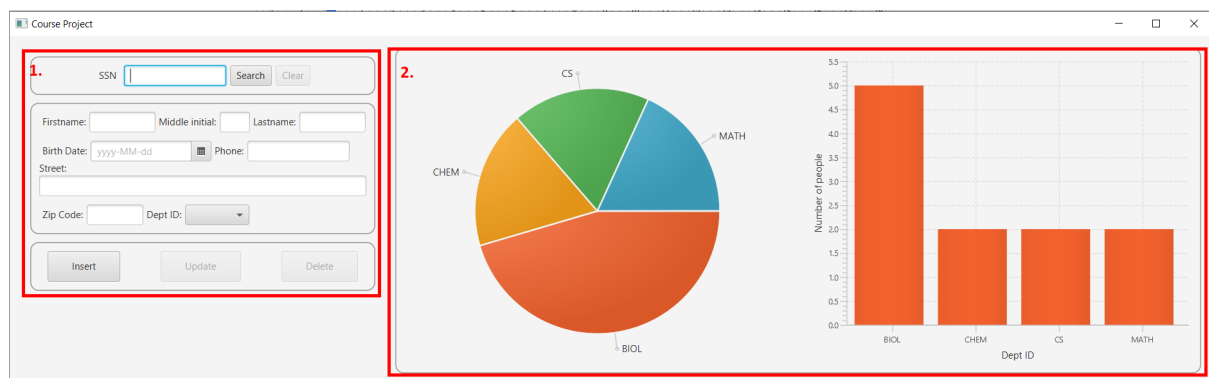# "Course Project Program"
Program from JAVA.

Presented by Korrawit S.
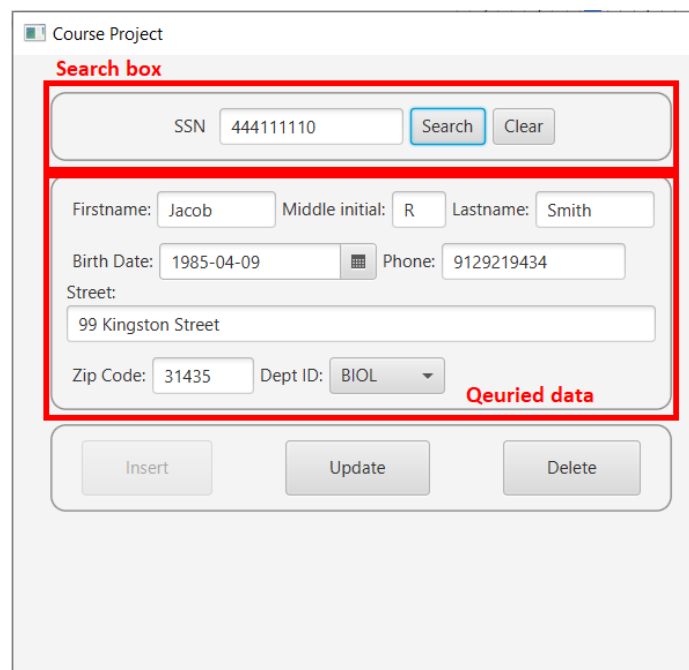**Presented to Mr. Anand Dersingh.**

Objective

- The program is designed for reading data from the database and shown as pie graphs, bar charts including plain text data.
- The program is also designed for adding data into the database which will make data insertion easier.
- During programming the programmer also learnt how to use JAVA with SQL, JAVAFX etc.
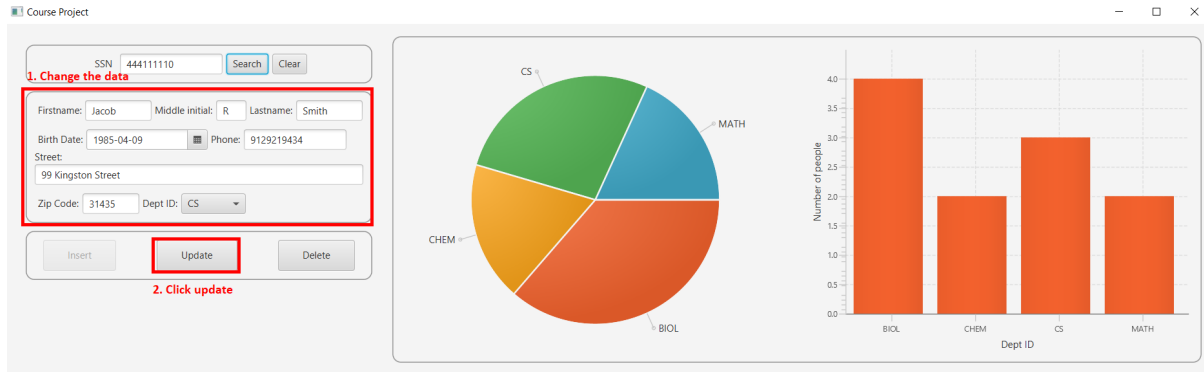
Using guide

1. Introduction into program's GUI. The program is separated into two sides: the left hand side (1.) is the query part used for the query command. On the other hand (2.) is the monitor side where the user can see the data chart from here for real time. Only search and insert buttons are enabled at the beginning to prevent mistakes.
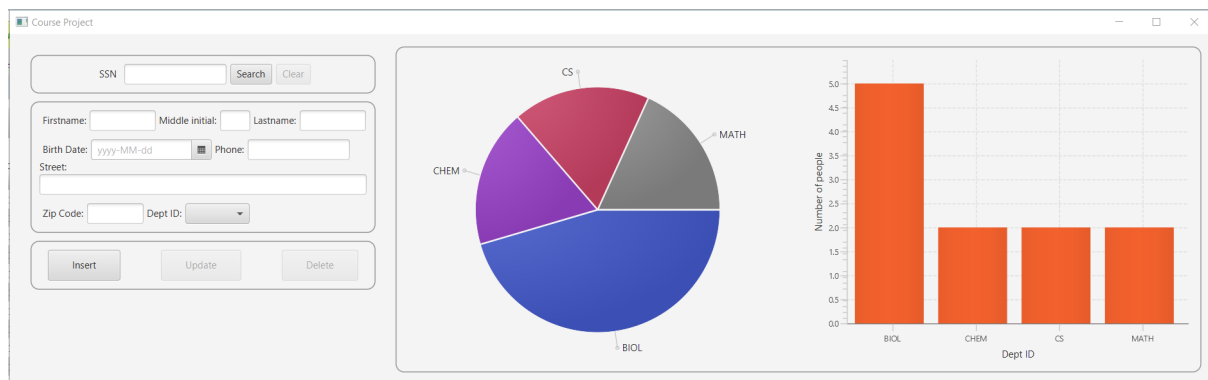

2. Search bar: when a user enters the SSN number into the text field and clicks search the data of the SSN number will be shown in the box below then clear, update, delete buttons are enabled but the insert button will be disabled.
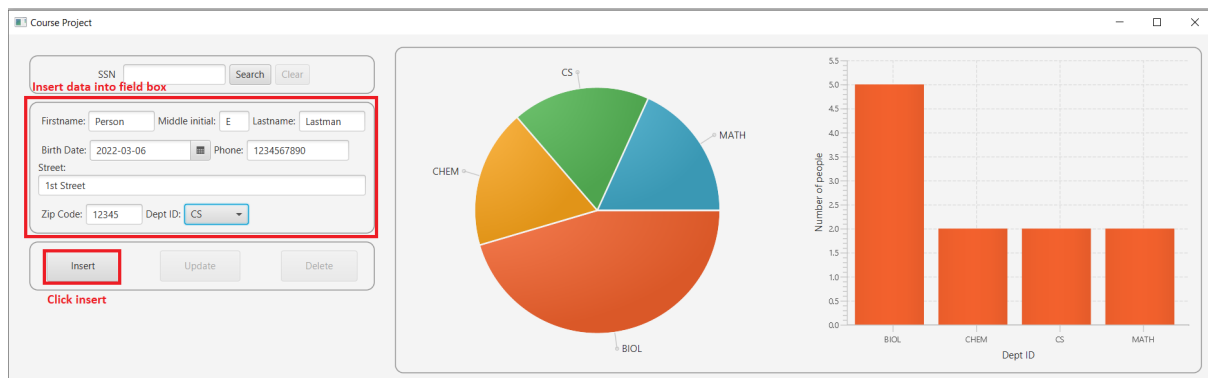
3. Update button: Users can update data anytime after searching from SSN number by changing any data in the query box then clicking the update button at bottom. The program will update data of SSN number and update to the graph immediately.
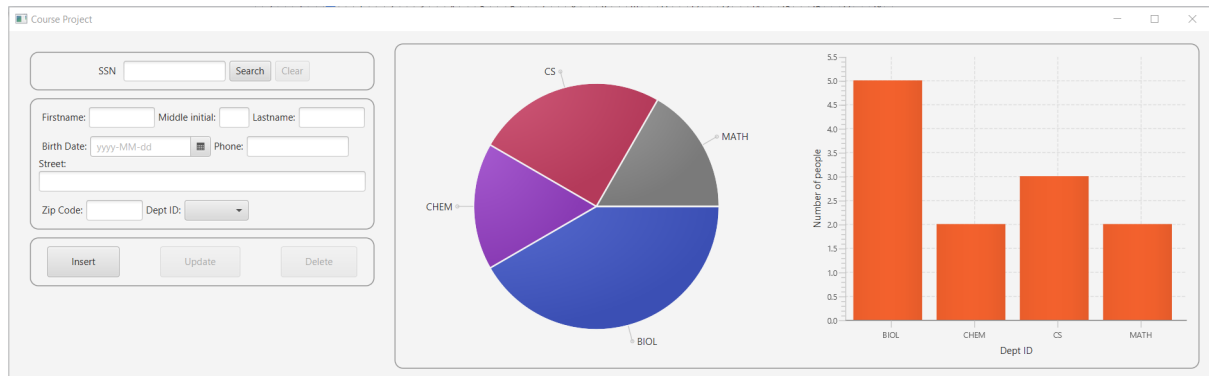

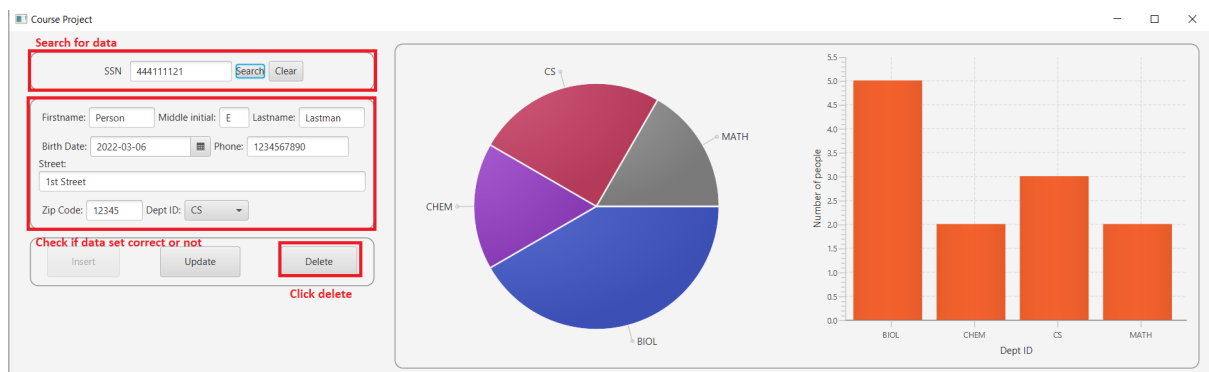After clicking update charts on the right hand will update immediately.

4.Insert data: Enter data into every field box then click insert the data will be inserted into the database and update charts on the right immediately. SSN number is not required for insertion because the program will increment the SSN number automatically.
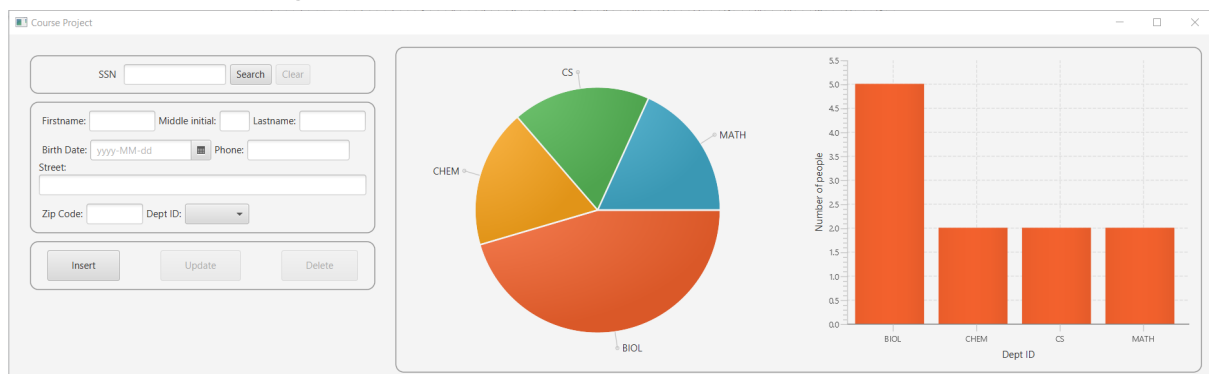
After insert charts are updated.

5. Delete data: First search for data using SSN number is the same as updating data but this time users don't have to edit data, just check to make sure the SSN number is correct then click delete the data set will be removed from the database and charts will be updated immediately.
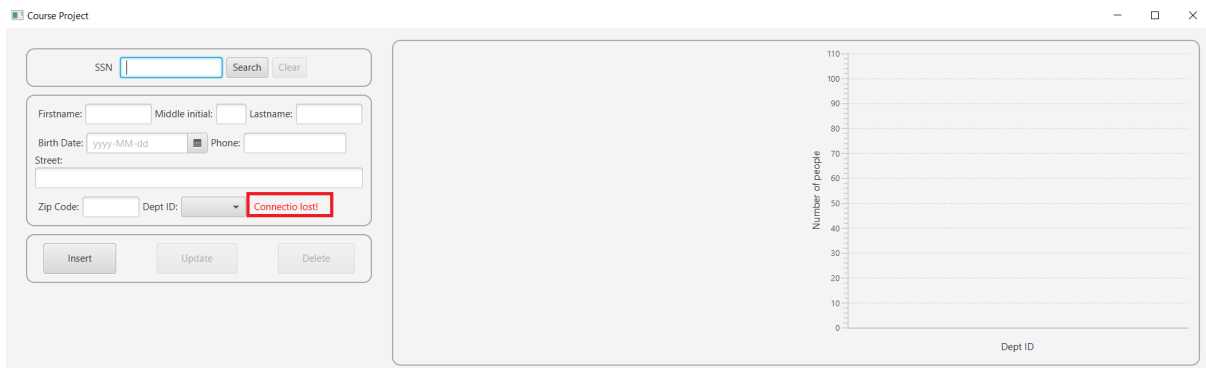
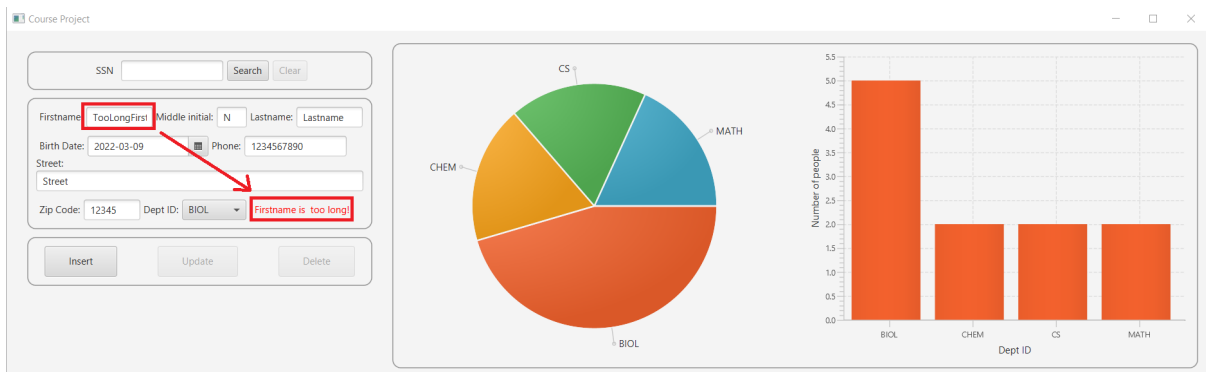

After clicking the delete button.
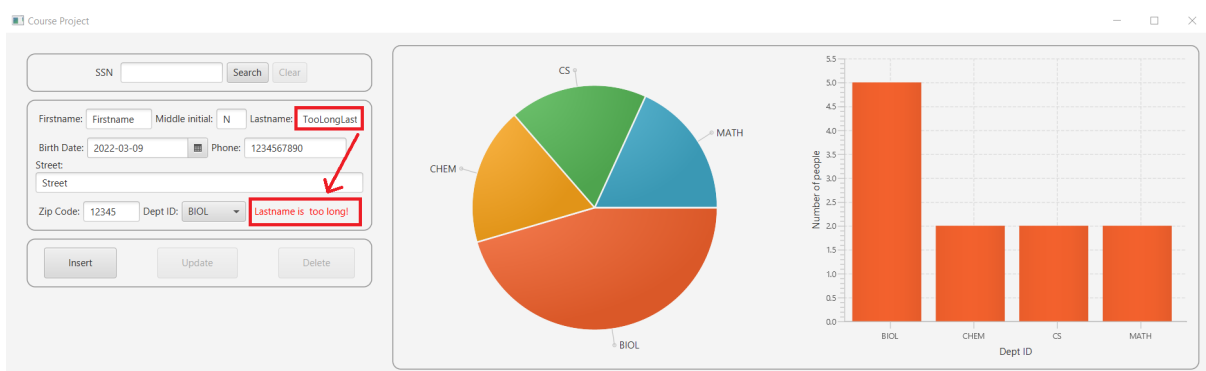
Program Error Handling
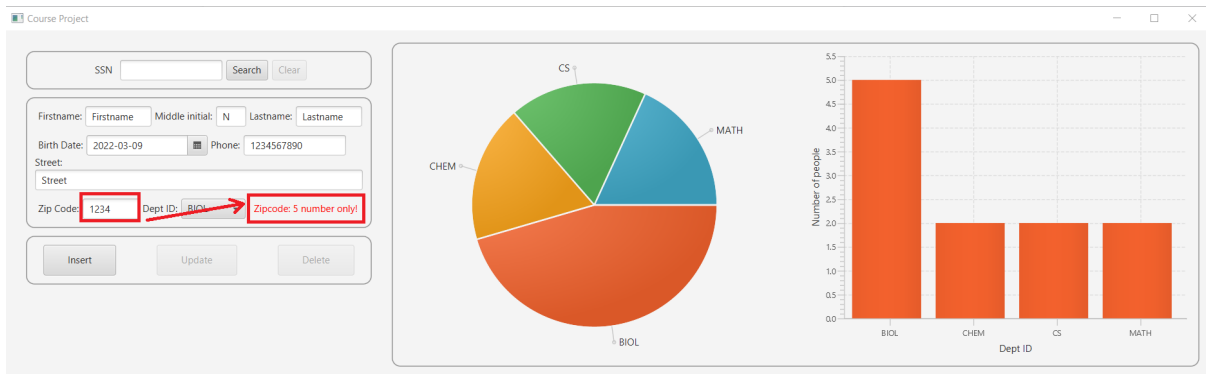
- The program can check for connection errors.

- The program can check if a user enters their first name too long.
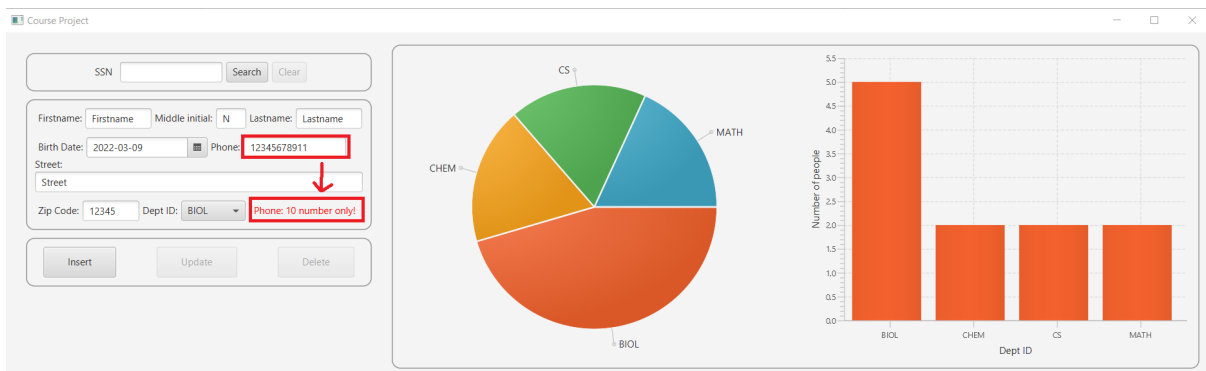

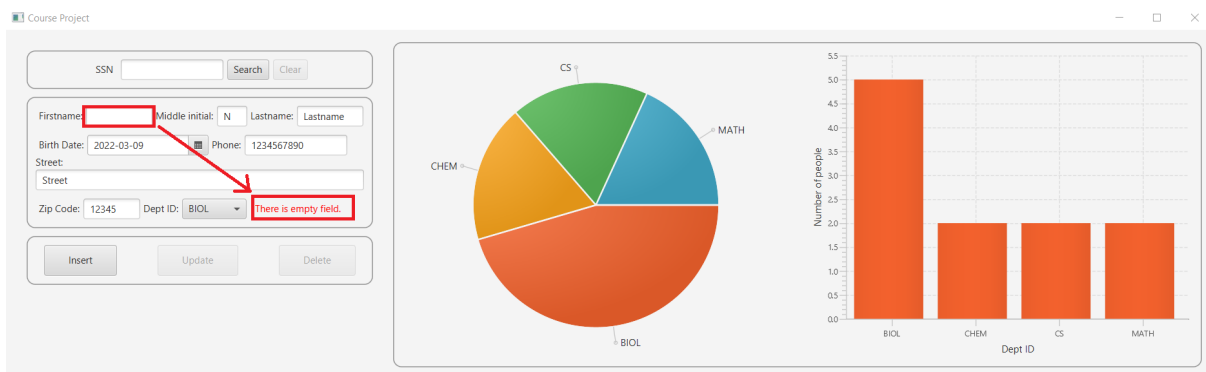- The program also protects last names too long entering.

- The program can check if zip codes are numbers and character count to make sure that the user will enter 5 characters of number.
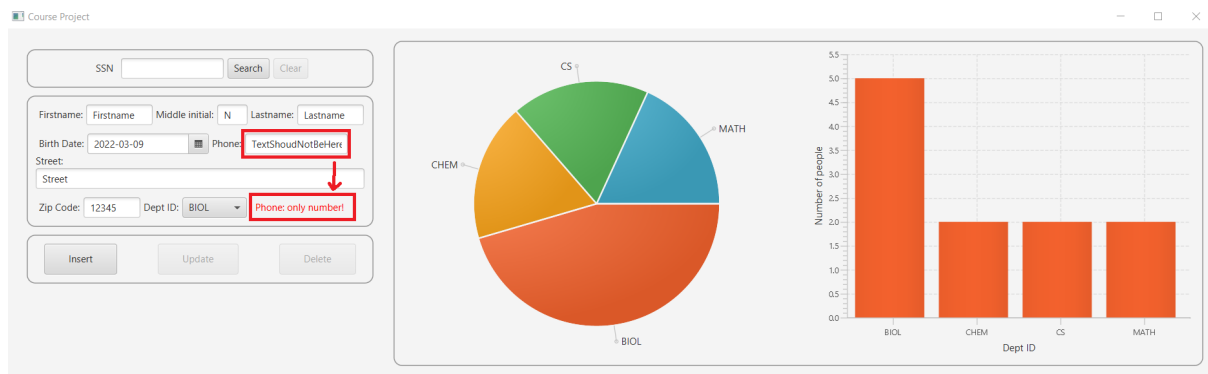
- The program will not update or insert if the user did not enter 10 numbers for phone numbers.
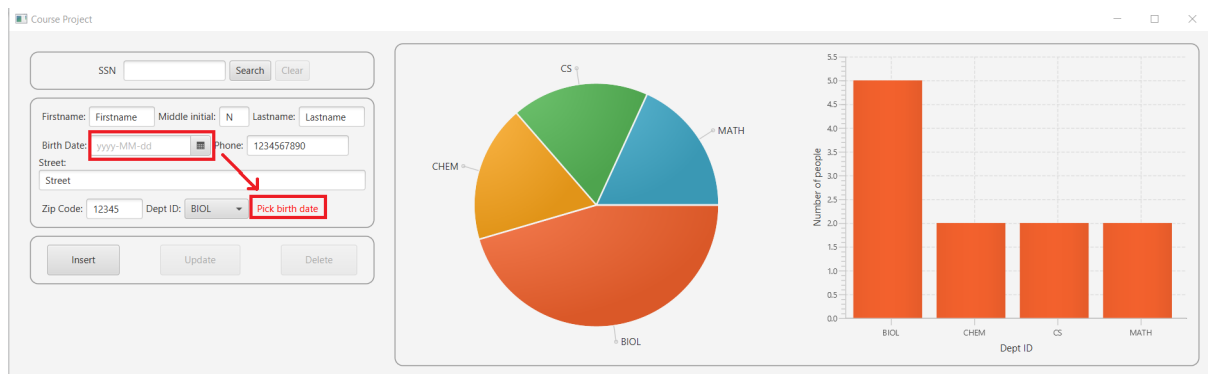

- If there is an empty field the program will notify the user by showing the red message that 'There is an empty field'
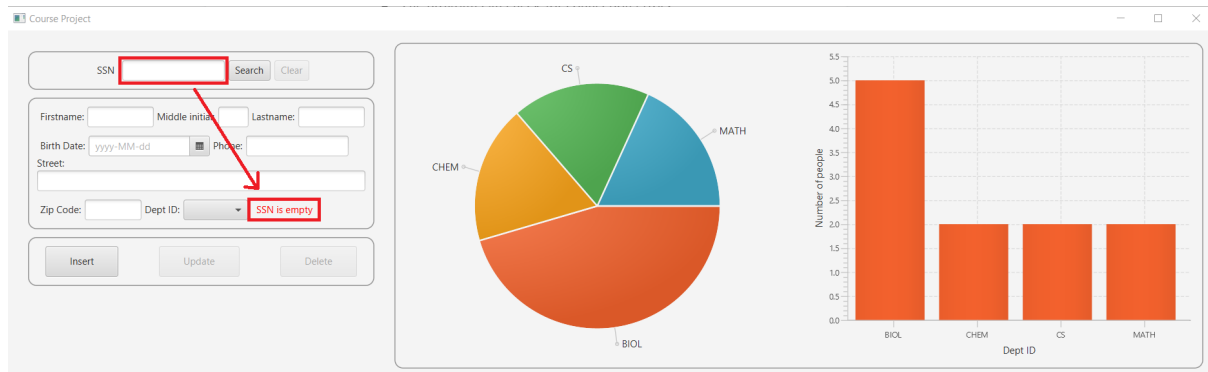

- Program can check if the user enters a character into the phone text field and it will show the warning message and cannot go to further tasks.
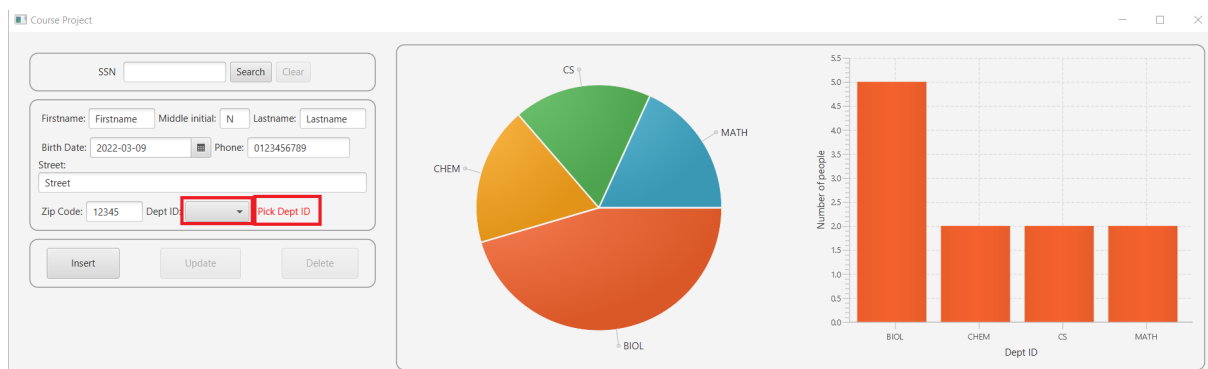
- If the date picker is not being selected the program will not let the user insert or update data.

- If user click search with empty SSN field the program will shown that 'SSN is empty'

- If the department id is not selected the program will notify the user to select.

References

Introduction To Java Programming, Comprehensive Version, Author: Daniel Liang, 12 Edition, Publisher: Pearson (Chapter 34).