**COMPUTER PROGRAMMING 2 (OBJECT ORIENTED)**

**MAIN CASE STUDY FINALS**

**ICS 112**

A Case Study

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Problem Description (Main Case Study Problem 1)

Bus Passenger Seat Program

This problem is about making a program that assign or reserve seats for passengers. The program will display the seating pattern that will have 32 seats in total. The seat pattern will have an indicator (e.g. X) if a seat is taken already. For example, if seat 1A is already taken, it will change into X in the seat pattern.

There program has a grid that displays the bus seats. There are also 2 buttons on the program. The first button is Reserve Seat. When clicked, it will prompt the user to enter his/her name. After that, the user will be prompted to input a seat number he/she want to seat on. If the wanted seat is already reserved, the program will show a dialog box that says that the seat is already taken and will ask the user another seat.

The other button is Input File. The user can slick this button if he/she wants to input information via a text file. If the seat on the text file is already taken, it will tell the user that the seat is not available.

All the information of the reserved seats will be saved on a text file that will be created by the program. The user can also view the reservation history on the program at the bottom – left part of the window.

Main Case Study Problem 1 Sample Output:



