CLASSROOM ROBOT

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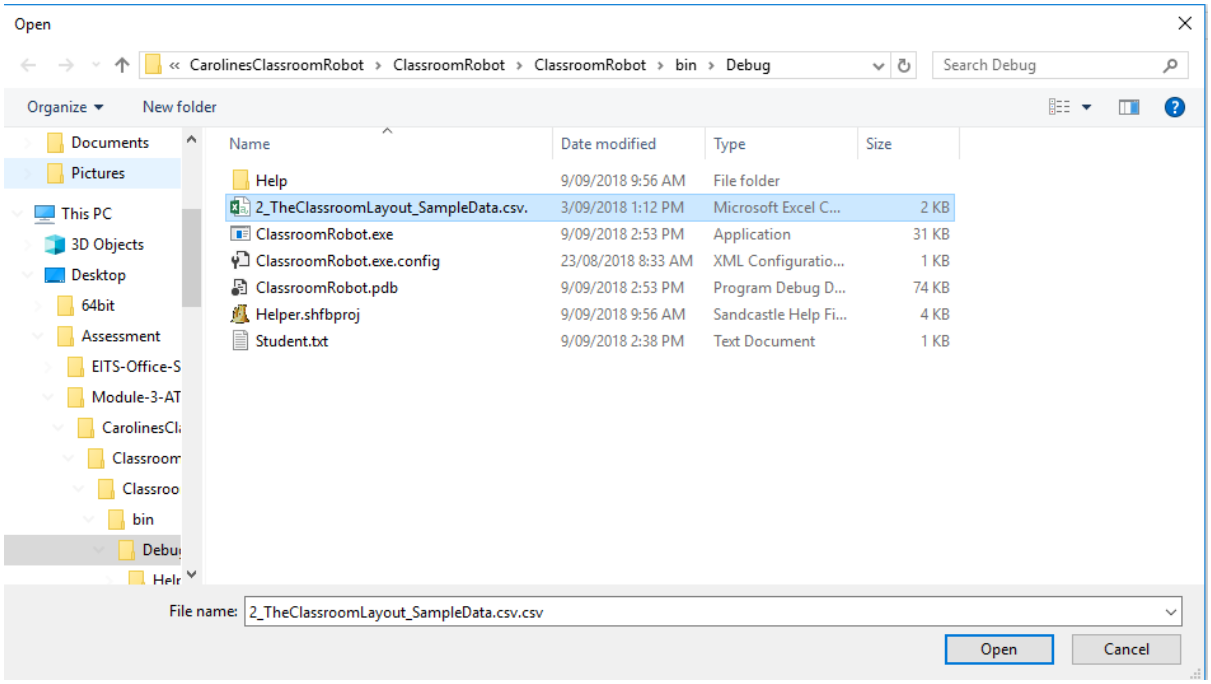
Summary

Caroline's Classroom Robot is designed to display a grid-format of a classroom. The grid is an overview of the entire classroom, displaying all the desks within the class and the students who own the desks. This application allows the user to view this information and edit it. With the click of a button the user can clear all the students, removing them from the desks, rename the people sitting at the desks and save all changes. It also allows the user to sort the students alphabetically and search for specific students. Another feature is writing specific students to a txt file for quick random access.

Using the application

When you first start the application, the first thing you will see is this:

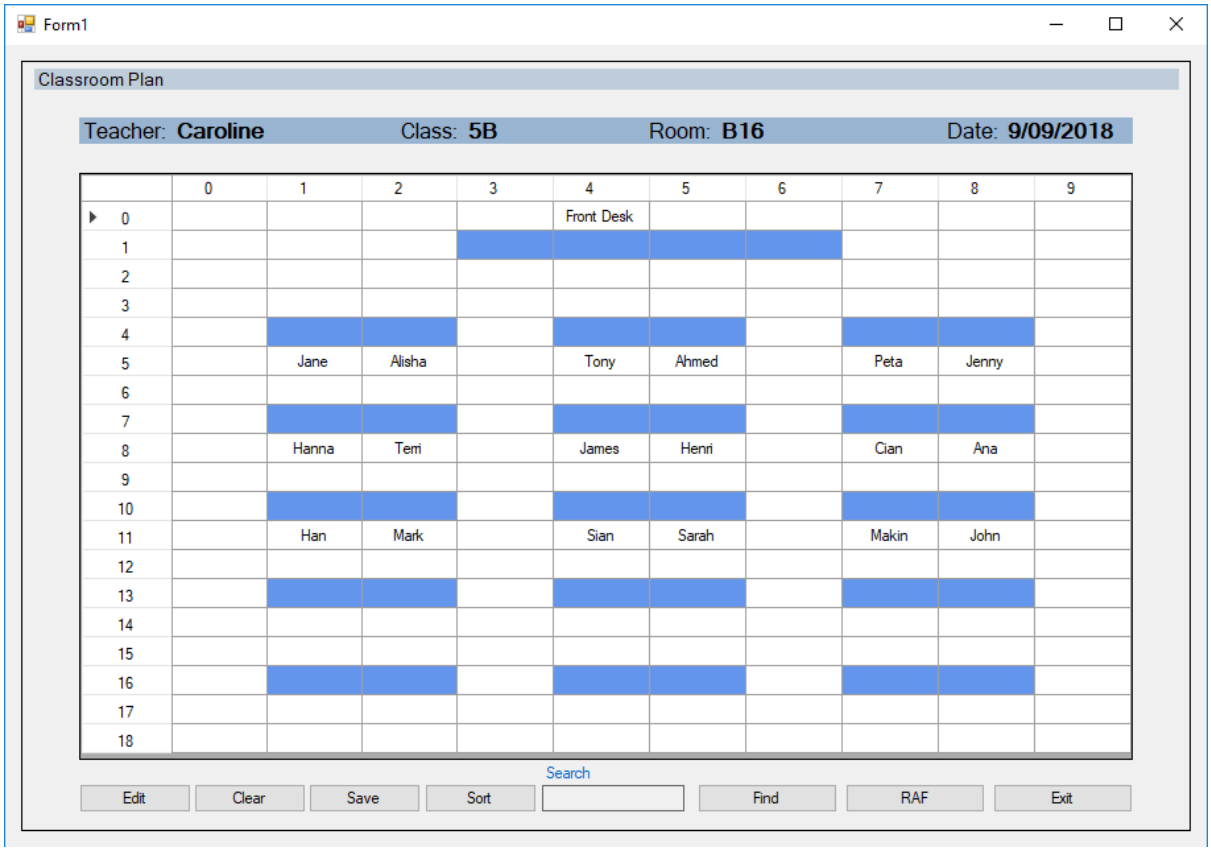


The application will ask you to select a classroom layout. Access the programs directory: CarolinesClassroomRobot\ClassroomRobot\ClassroomRobot\bin\Debug

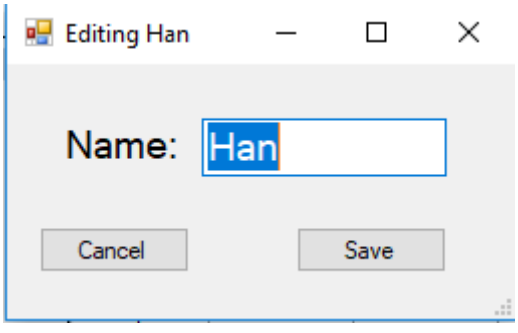
Here select: 2_TheClassroomLayout_SampleData.csv

Using the application

Once this is done, the program should display a grid like this:



Here, you may do what you like. To edit names, simply look to the grid and select the name you would like to edit. Once that is done, simple look to the bottom left corner, there you will see a button called edit, click this and a form should popup like so:



Using the application

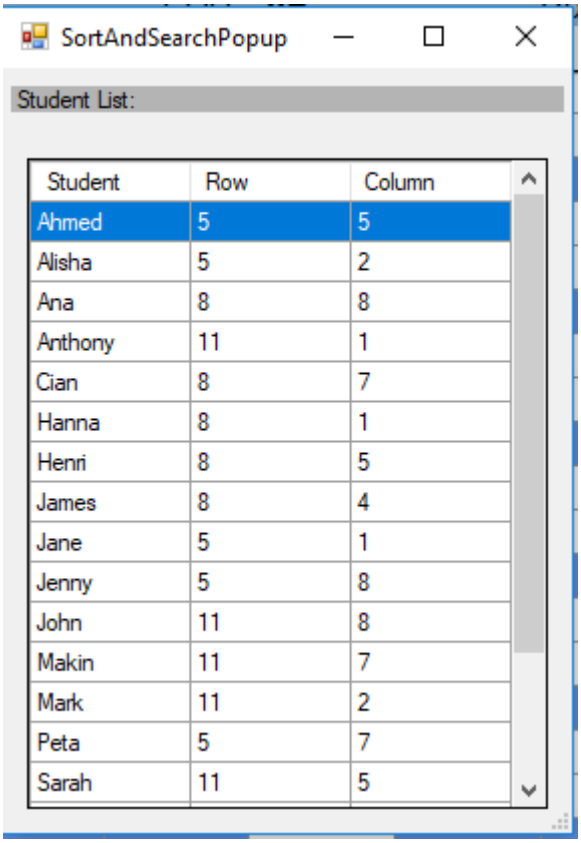
Just enter the name you would like and click save. The grid will update and the grid cell you selected earlier will have its name change to what you saved.

The next feature is the button next to “Edit”, which is “Clear”. Clear just as it sounds, clears the grid of all students. If you click clear all students will be removed from the grid.

Using the application

Next is “Save”. Save is extremely important to remember if you are editing the grid in anyway. Clicking save will create a new csv file with all the new information, to use it, simply choose that csv over 2_TheClassroomLayout_SampleData.csv on start up.

Clicking sort will display another form, just like edit did:



Using the application

Here all students are arranged alphabetically and displayed, along with their positions on the grid.

Search is almost identical to sort. The only difference being you type the name of the student you are looking for into the text box and click find. Then an identical form will popup, only this time the student whose name you searched for will be highlighted, just like Ahmed is, in the above image.

RAF allows the user to save students to a txt file and access them again quickly. When you click the RAF button you will asked if you want to save the selected student. If you select yes, the student will be saved to the text file and given a student number for identification. Then, next time you click RAF select no. A for similar to Edit will appear asking for a student number. Once you enter a number, if the number exists, the student associated with that number will be added to the selected student cell.