

REGISTRATION SYSTEM

ICS108 PROJECT

STUDENTS

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Project Description:

Create a simple JavaFX application called “Registration System” that gives the user the ability to register and drop courses for any student, view the course offering and their information, and view the registered courses for any student.

Solution Description:

Firstly, we created two ArrayLists, courseList and studentList, and read from the file “Registration.dat” and put the information in them. Then, we proceeded to use them in the solution for each task.

Registration and dropping a course for a student:

The solution for this problem is to create two ListViews, one for open courses and the other for the student’s courses. When the user clicks the register button, the program gets the selected course from the open courses ListView and then adds the course to the ArrayList of the student object, as well as incrementing the availableSeats variable of the registered course by 1. This will automatically update the student’s courses ListView as it is connected to the ArrayList of the student object.

Viewing the course offering:

Using courseList, we create a ListView with all the courses in it. Then, we get the selected course from the ListView and show the information with text and a second ListView that shows the registered students of the course.

Viewing the registered courses for a student:

Depending on the student selected, the program gets the ArrayList of the student object which is then used to create a ListView to show these courses. Whenever the user changes the selected student, the program refreshes the page to change the content of the ListView.

Work Distribution

Our initial distribution for the work is the following:

Abdulrahman Jamal:

- Design the main pain
- Write the functions in the common class that connects between the panes
- Design the UI of the Adding Student Pain

Fahad Alsheddi:

- Design the UI for the student pane
- Drop and register courses in the student pane
- Show the student Details

Abdulrahman Almalki:

- Design the UI for the course pane
- Select a specific course from the list view
- Search for a specific course

This was the main tasks for the student, and our project was always shared between us using GitHub.

Our project on GitHub:

<https://github.com/AbdulrahmanAJ/ICS108Project>

Screen shots of the program flow













