COMP132 : Advanced Programming

Programming Project Report

MERGEN
Gülnisa Yıldırım, 76401

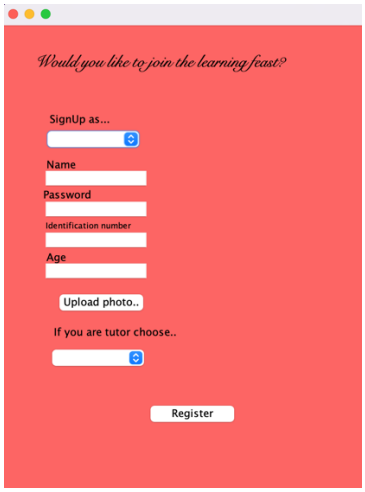
Fall/2022

I. APPLICATION USAGE

A. Sign up Guide

First, you need to sign up if you do not have account. In the starting page you will see two buttons, you need to press “Sign Up” button(*figure.*1).

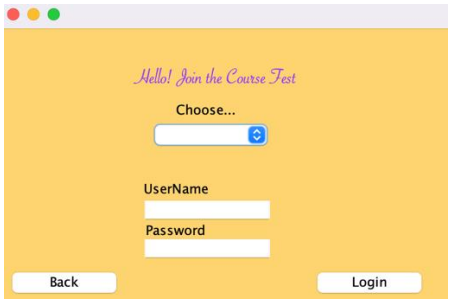
You will see a page(*figure.*2) which wants your information to register. Please fill all the blanks.



B. Sign in Guide

If you already have an account, you need to press “Sign In” button in the starting page(*figure*.3).

Then, you will see a page (*figure*.4) which wants your name, password, and login type. When you enter all the information correctly, it will redirect you to the home page of your account.

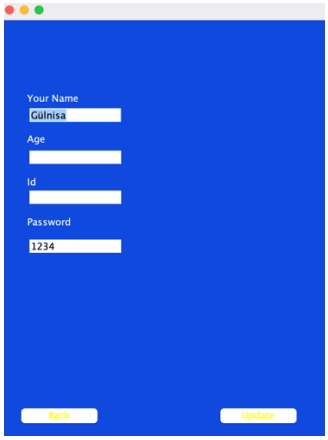


C. Student Home Page

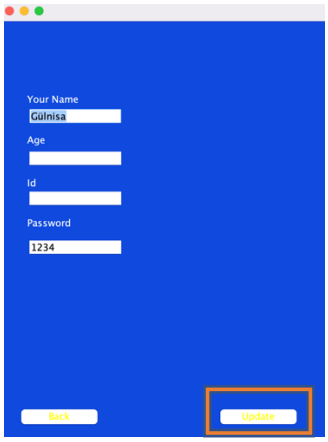
When you *Sign In* or *Sign Up*, you will see a table at the center of page. This table shows you which courses are available. (*figure*.5)

Moreover, in the student home page, there is a button called “Change Information” for you to update and see your information. (*figure.*6*)*

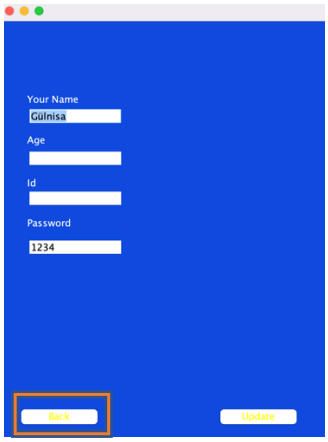
When you click on “Change Information” button, you will see your information that you already entered while you are registering. (*figure.*7*)*



When you update, you just need to press update. (*figure.*8*)*



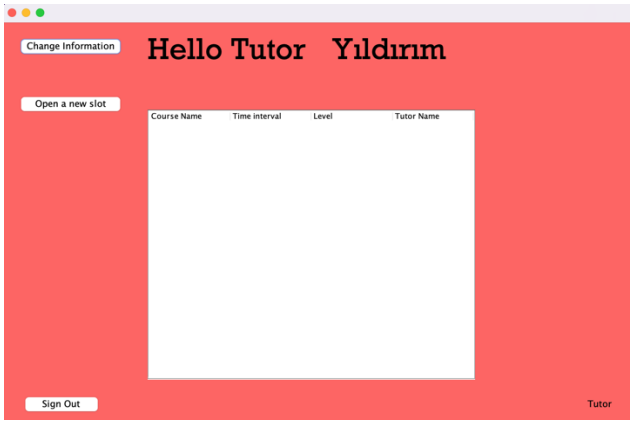
If you have given up on changing your information, you can click on “Back” button. (*figure.*9*)*



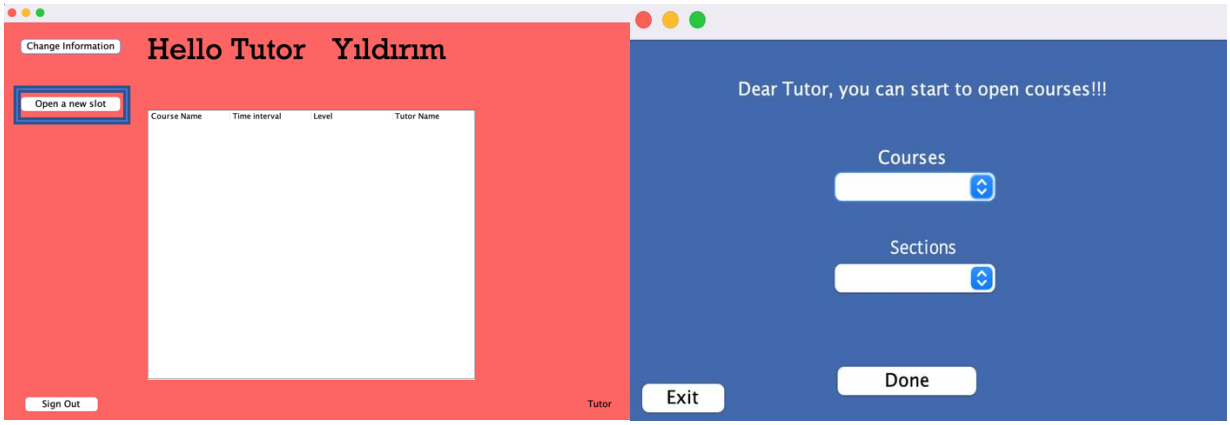
Also, there is a “Register” button that you can register to an available course.(*figure.*10*)*

D. Tutor Home Page

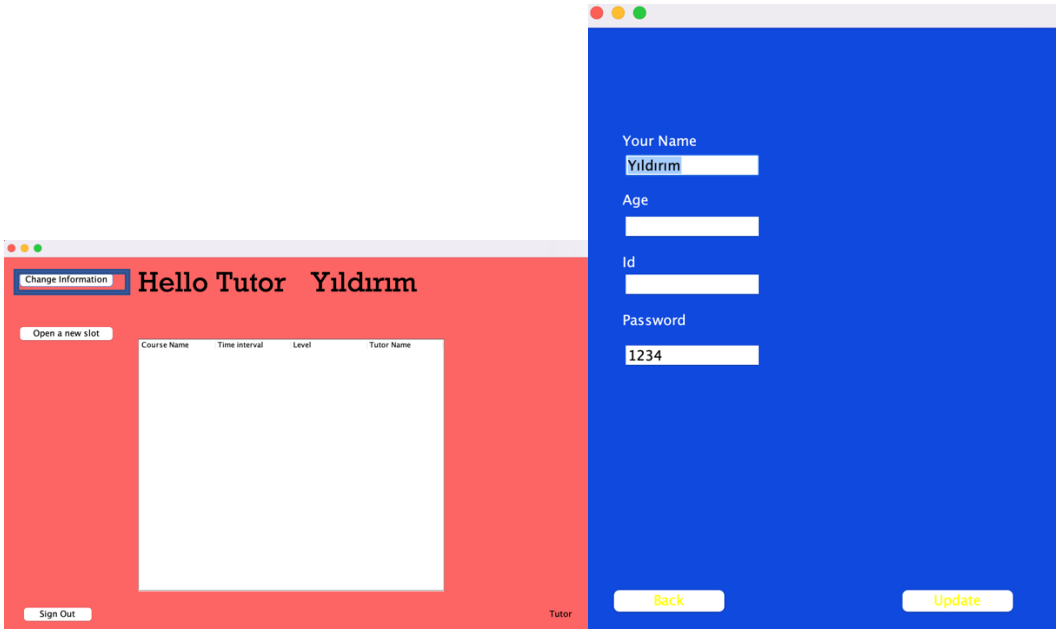
When you *Sign In* or *Sign Up*, you will see a table at the center of page. This table will be filled your courses that you will add.(*figure.*11*)*



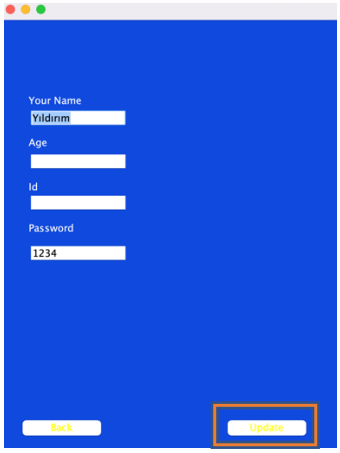
There is a button called “Open a new slot” for you add course by choosing course name and time. (*figure.*12*)*



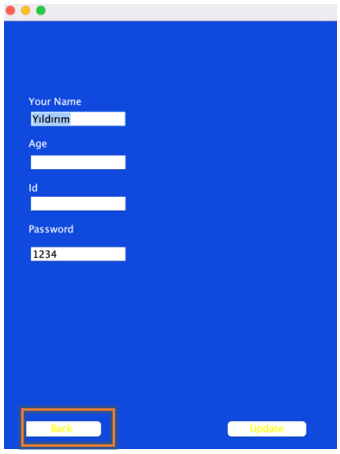
In the tutor home page, there is a button called “Change Information” for you to update and see your information.(*figure.*13*)* When you click on button, you will see your information that you already entered while you are registering. (*figure.*14*)*



When you update, you just need to press update. (*figure.*15*)*

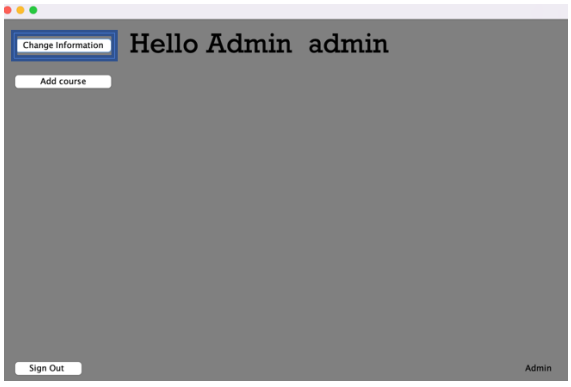


If you have given up on changing your information, you can click on “Back” button. (*figure.*16*)*

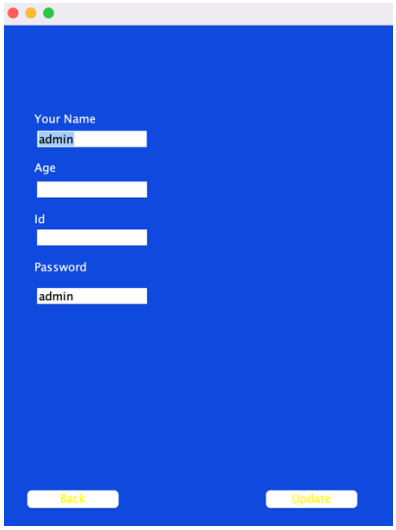


E. Administrator Home Page

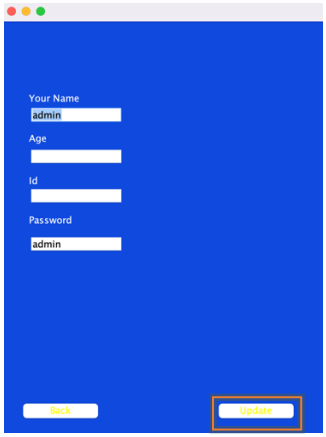
In the administrator home page, there is a button called “Change Information” for you to update and see your information.(*figure.*17*)*



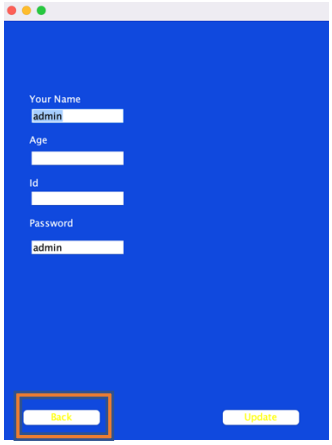
When you click on “Change Information” button, you will see your information that you already entered while you are registering. (*figure.*18*)*



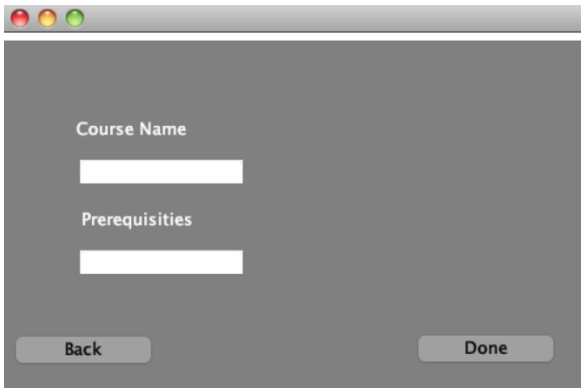
When you update, you just need to press update. (*figure.*19*)*



If you have given up on changing your information, you can click on “Back” button. (*figure.*20*)*



Also, there is a “Add course” button that you can add new courses by entering name and prerequisites of the course .*figure.*10*)*



II. BACKGROUND OF APPLICATION

In this project, which was created in a hierarchy consisting of User and Type, the components of the GUI were used many times. In this project, which consists of 4 packages, there are 11 classes, 1 interface and 11 JFrames in total. Lists were created in the main class for each type of user (administrator, student, tutor). Lists were also created for the A-level and B-level tutor concepts in the tutor's sub-hierarchy. Many color palettes and fonts were used for the design of the project. Many more JFrame components such as JButton, JTextField, JTable were also used. To summarize, the project used concepts taught in Comp132 such as inheritance, polymorphism, interface and so on.

REFERENCES

https://drive.google.com/file/d/1cecktBJErMQLep27YCbohCBjPcsdLseJ
https://www.youtube.com/playlist?list=PL3D7046DF2257751F
https://www.youtube.com/playlist?list=PL35E5EDAF24774058