

EUROPEAN UNIVERSITY OF LEFKE
Faculty of Engineering
Department of Software Engineering



COMP 337
DATABASE MANAGEMENT SYSTEMS

(University Interface System)

Prepared by

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(194570 & 194581)

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Introduction:

University Interface System is a desktop application through which Faculty Coordinator, Instructor and Student can login to system. The system is designed to make the learning process easier. Especially with the quarantine going on, students and instructors can learn and teach respectively, without having to worry about contracting the virus.

Division of labour

1. 194570(Muhammad Abubakar) user interface design and logic and database
2. 194581(Suleiman Usman) report documentation

Users and their respective functionalities

Faculty Co-ordinator: The faculty co-ordinator can

- Log into the system
- Add a new course to the system
- Add a new instructor to the system
- Assign courses to instructors, i.e give instructors which courses they'll be teaching
- Assign instructors to students, i.e register students with their respective advisors

Instructor: The instructor can

- Log into the system
- See and update personal details
- See the courses assigned to them by the faculty co-ordinator
- See course details, eg, list of students registered
- Register students to the courses

Student: The student can

- Log into the system
- See and update personal details
- See course registered
- See the other students registered in the class

Tools used (software programs and other equipments)

Tools used for the user interface design & logic-Visual Studios 2019

Tools used for documentation and report-Microsoft word

The following are video links that helped in the creation of this system [Create Your First C# Windows Forms Application using Visual Studio 2022](#)

, <https://youtu.be/S-LacqE7OM>

EXPLANATION OF THE SYSTEM

Main Page: This is the main page of the application, it shows the users that can login, which are the faculty coordinator, instructor and student. The user is to select whichever profession they are into



The screenshot shows a Windows-style application window titled "MainForm". In the top-left corner, there is a logo for the "EUROPEAN UNIVERSITY OF LEFKE" established in "1990". The main content area has a light blue background and features the heading "Select Your Profession" in bold black text. Below this heading are three horizontal, light gray buttons with black text, stacked vertically. The buttons are labeled "Faculty Coordinator", "Instructor", and "Student" from top to bottom, all in an italicized font.

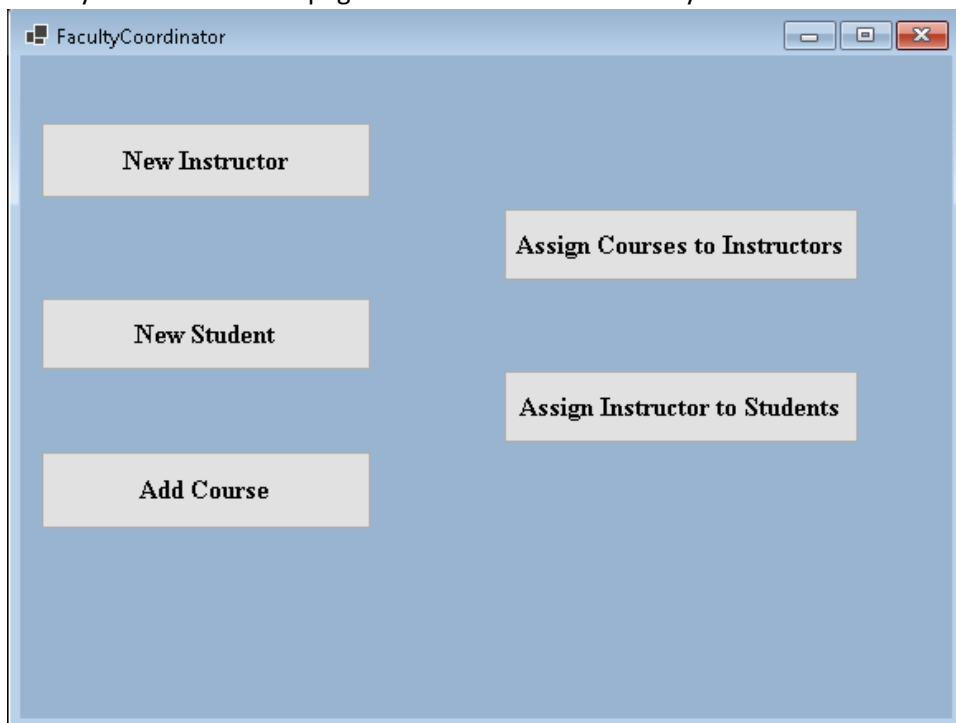
Login Page: This is the login page, the user is to enter their login information, that is, their username and password, then they choose the profession they are in. The following are the pages that will come up

with respect to the user.



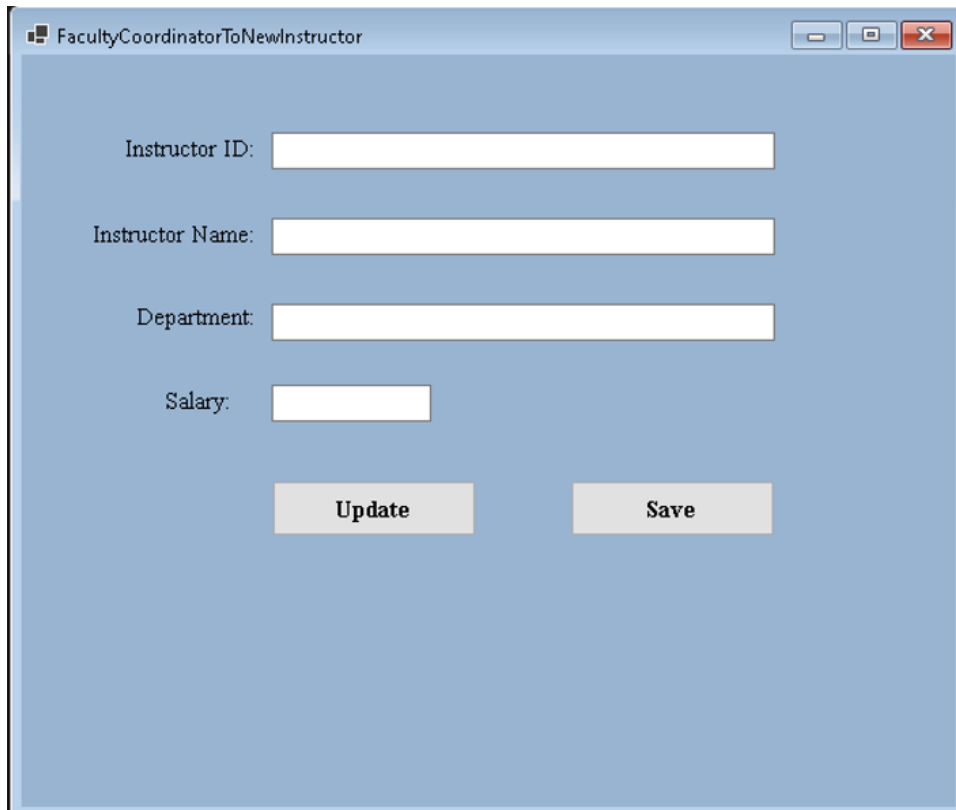
The screenshot shows a window titled "LoginForm" with a light blue background. In the top-left corner is the logo of the European University of Lefke, which is a circular emblem containing a stylized blue and yellow 'E' and the text "EUROPEAN UNIVERSITY OF LEFKE", "LEFKE AVRUPA ÜNİVERSİTESİ", and "1990". The main heading in the center is "Enter Your Login Informations". Below this, there are two input fields: "Username:" and "Password:". At the bottom, there are four buttons: "Cancel" on the left, and "Login as Faculty Coordinator", "Login as Instructor", and "Login as Student" stacked vertically on the right.

1. Faculty coordinator: This page shows the choices a faculty coordinator can make



The screenshot shows a window titled "FacultyCoordinator" with a light blue background. It contains five buttons arranged in two columns. The left column has three buttons: "New Instructor", "New Student", and "Add Course". The right column has two buttons: "Assign Courses to Instructors" and "Assign Instructor to Students".

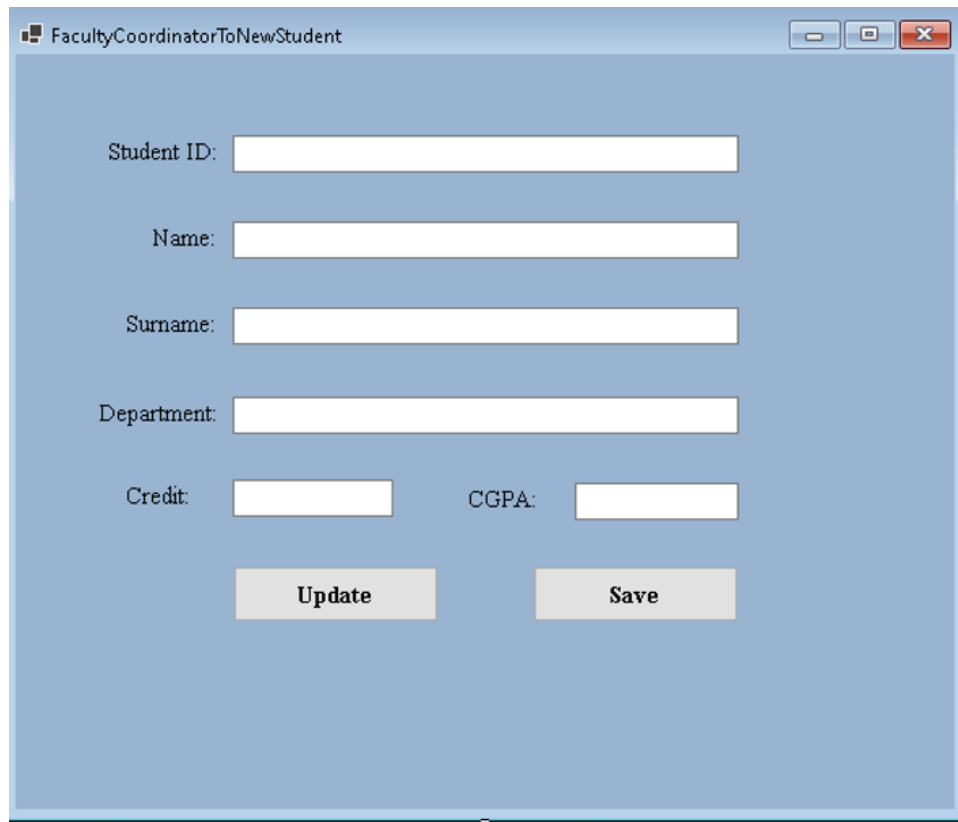
- “New Instructor”-this allows the faculty coordinator to add a new instructor to the database, they do so by entering the new instructor’s details, such as ID, Name, Salary etc and click on save.



The screenshot shows a web application window with the title bar 'FacultyCoordinatorToNewInstructor'. The window has a light blue background and contains a form with four input fields and two buttons. The fields are labeled 'Instructor ID:', 'Instructor Name:', 'Department:', and 'Salary:'. The 'Instructor ID' and 'Instructor Name' fields are long, while the 'Department' and 'Salary' fields are shorter. Below the fields are two buttons: 'Update' and 'Save'.

Field Label	Field Type
Instructor ID:	Text Input
Instructor Name:	Text Input
Department:	Text Input
Salary:	Text Input
Update	Button
Save	Button

- “New Student”-this allows the user the add a new student to the database, this can be done by adding the new student’s details, ID, Name, Department, CGPA etc.



A screenshot of a software window titled "FacultyCoordinatorToNewStudent". The window has a light blue background and a standard Windows-style title bar with minimize, maximize, and close buttons. Inside the window, there are five text input fields arranged vertically, each preceded by a label: "Student ID:", "Name:", "Surname:", "Department:", and "Credit:". The "Credit:" label is followed by a small input field, and then the "CGPA:" label is followed by another small input field. At the bottom of the form area, there are two buttons: "Update" and "Save".

FacultyCoordinatorToNewStudent

Student ID:

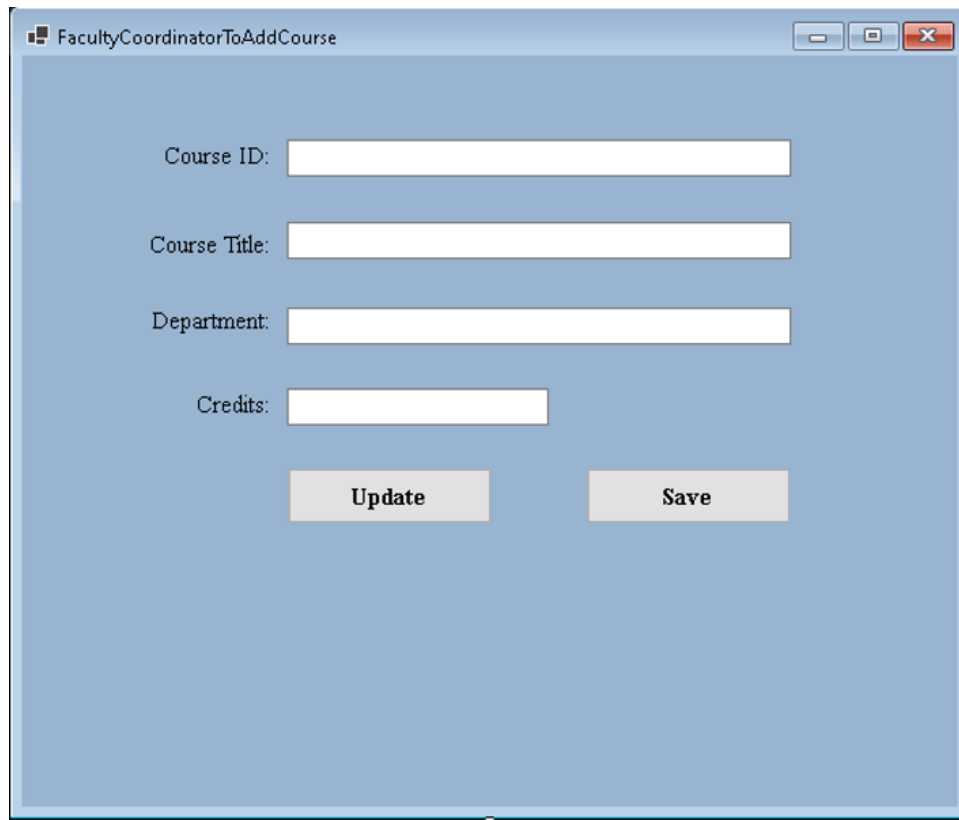
Name:

Surname:

Department:

Credit: CGPA:

- "Add Course"-this allows the user to add a new course to the database, they do so by entering the new course's details, such as ID, Title, Department, Credit and click on save,



A screenshot of a software window titled "FacultyCoordinatorToAddCourse". The window has a light blue background and a standard Windows-style title bar with minimize, maximize, and close buttons. Inside the window, there are four text input fields arranged vertically, each preceded by a label: "Course ID:", "Course Title:", "Department:", and "Credits:". Below these fields are two buttons: "Update" and "Save".

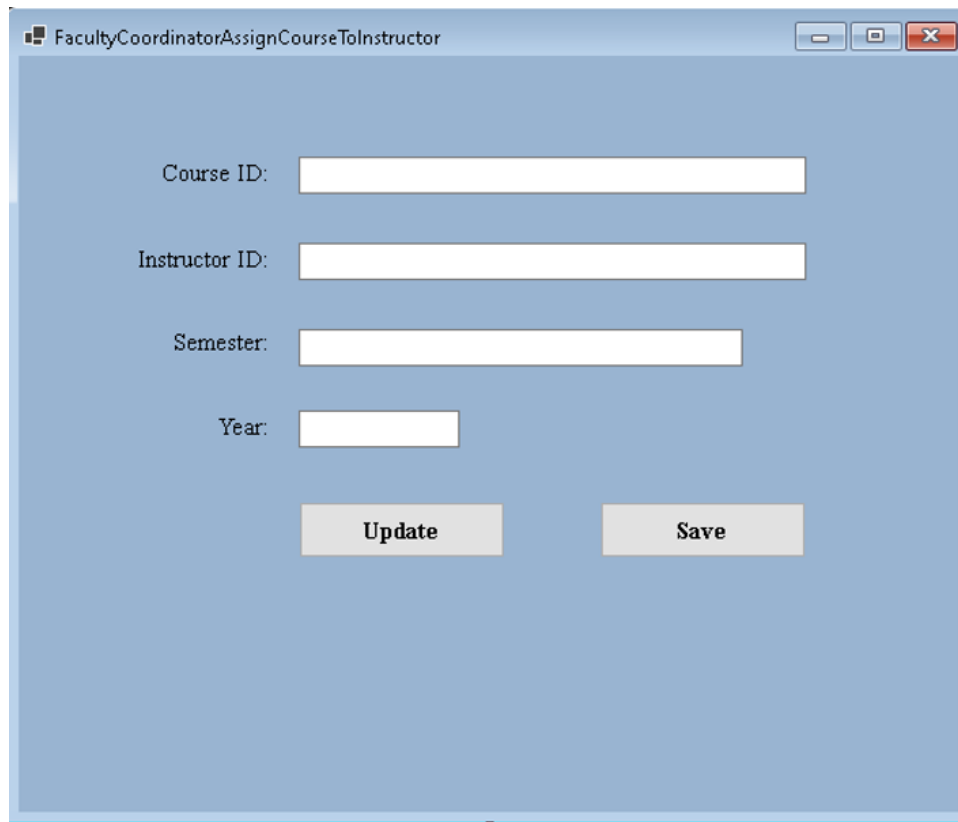
Course ID:

Course Title:

Department:

Credits:

- "Assign Courses to Instructors"-this function is to assign a particular course to a particular instructor, it can be done by entering the particular instructor ID that the user wants to teach a particular course, and entering the respective course ID of the course the user wants the above Instructor to teach and click on save.



A screenshot of a software window titled "FacultyCoordinatorAssignCourseToInstructor". The window has a light blue background and standard Windows window controls (minimize, maximize, close) in the top right corner. It contains four text input fields arranged vertically, each with a label to its left: "Course ID:", "Instructor ID:", "Semester:", and "Year:". Below these fields are two buttons: "Update" and "Save".

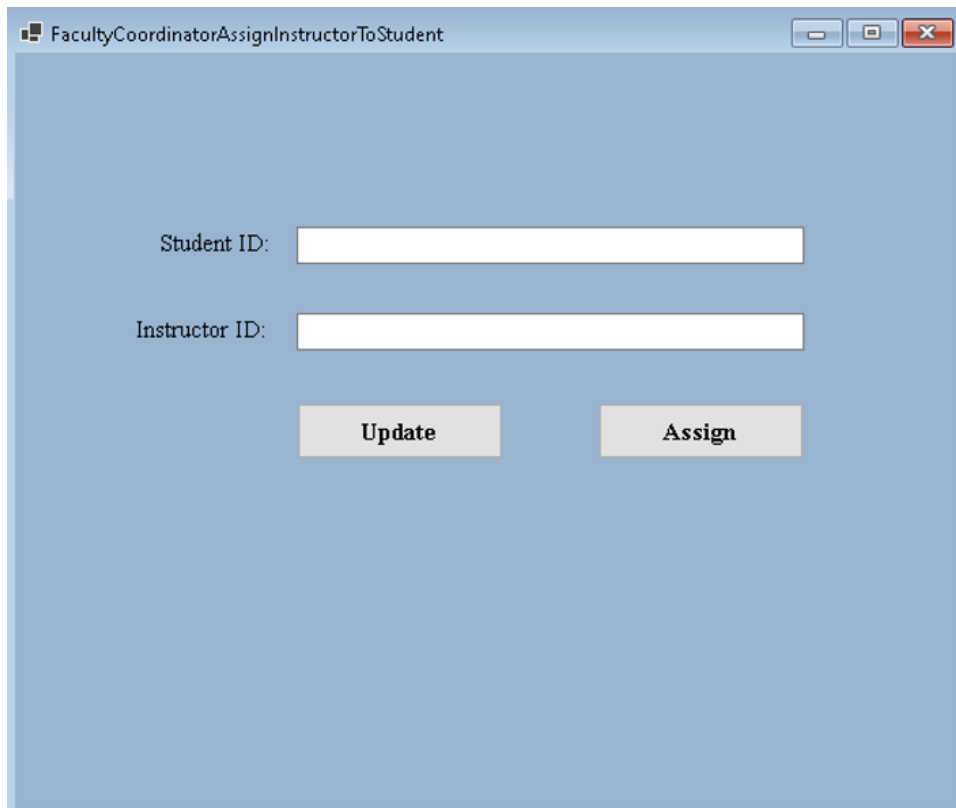
Course ID:

Instructor ID:

Semester:

Year:

- “Assign Instructors to Students”-this allows the user to assign a particular instructor onto a particular student, whereby the instructor acts as an advisor to the student, they do so by entering the instructor’s ID that the user wants as advisor and the respective student ID the user wants to be advised and click on assign.



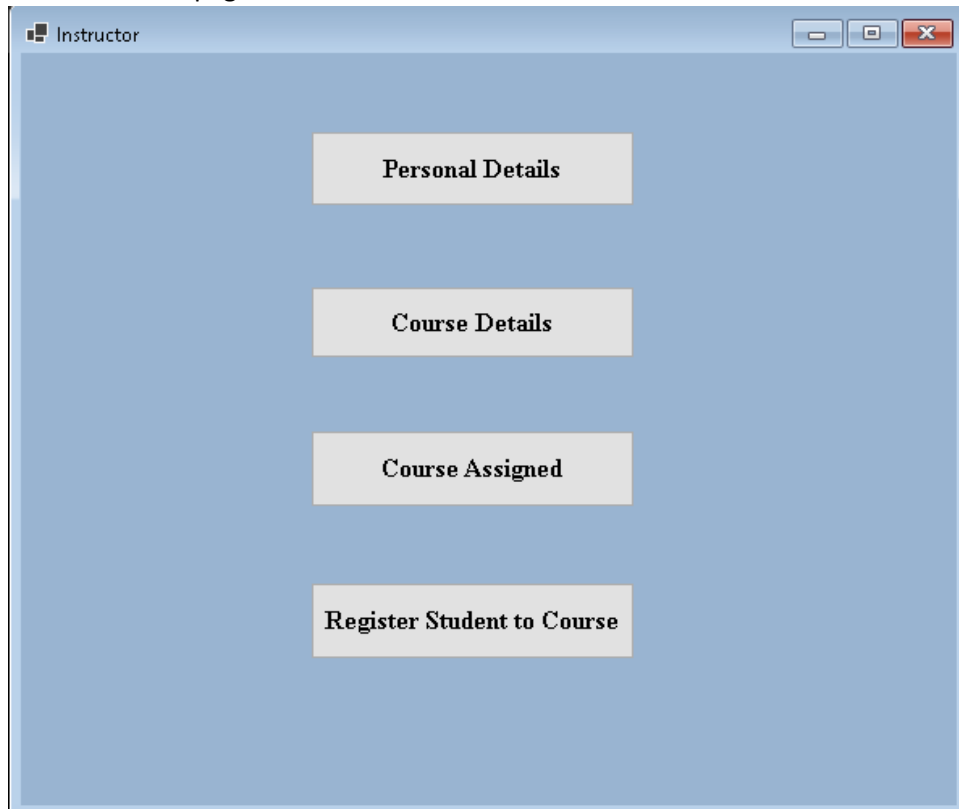
A screenshot of a software window titled "FacultyCoordinatorAssignInstructorToStudent". The window has a light blue background and standard Windows window controls (minimize, maximize, close) in the top right corner. It contains two text input fields: "Student ID:" and "Instructor ID:". Below these fields are two buttons: "Update" and "Assign".

Student ID:

Instructor ID:

Update **Assign**

2. Instructor: This page shows the functions of the instructor



A screenshot of a software window titled "Instructor". The window has a light blue background and standard Windows window controls (minimize, maximize, close) in the top right corner. It contains four buttons arranged vertically: "Personal Details", "Course Details", "Course Assigned", and "Register Student to Course".

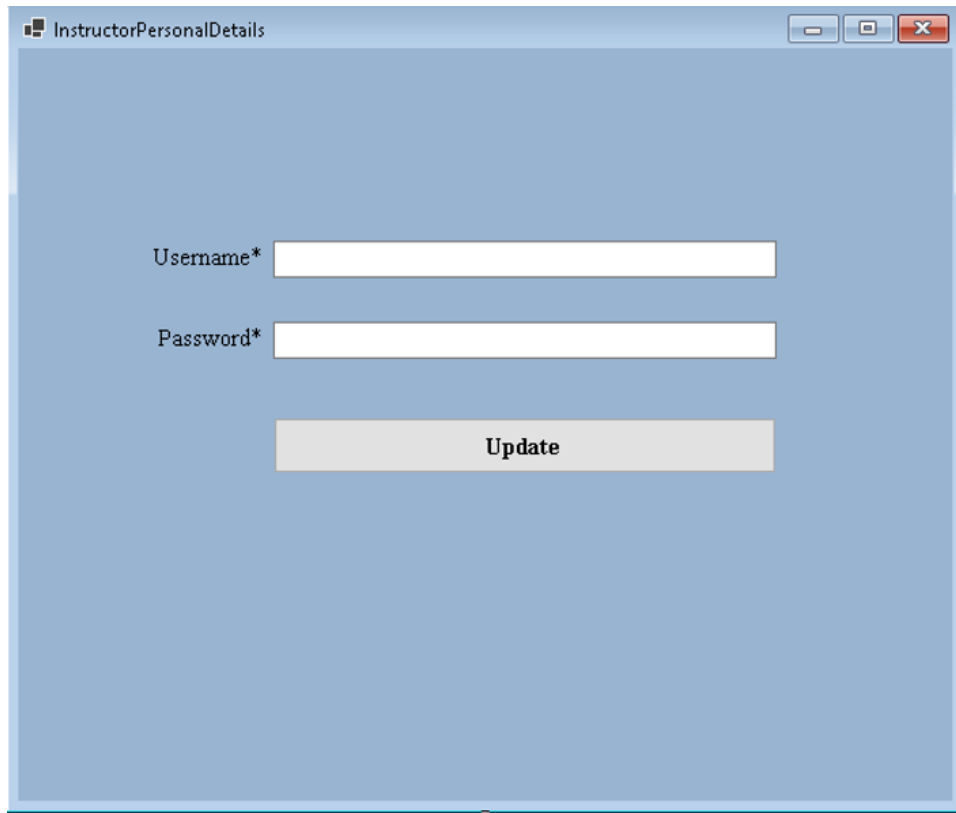
Personal Details

Course Details

Course Assigned

Register Student to Course

- “Personal Details”-this page allows the user to change their login details, that is the username and password.



The image shows a screenshot of a web application window titled "InstructorPersonalDetails". The window has a light blue background and a standard Windows-style title bar with minimize, maximize, and close buttons. Inside the window, there are two text input fields. The first field is labeled "Username*" and the second field is labeled "Password*". Below these fields is a grey button with the text "Update" in bold. The fields are currently empty.

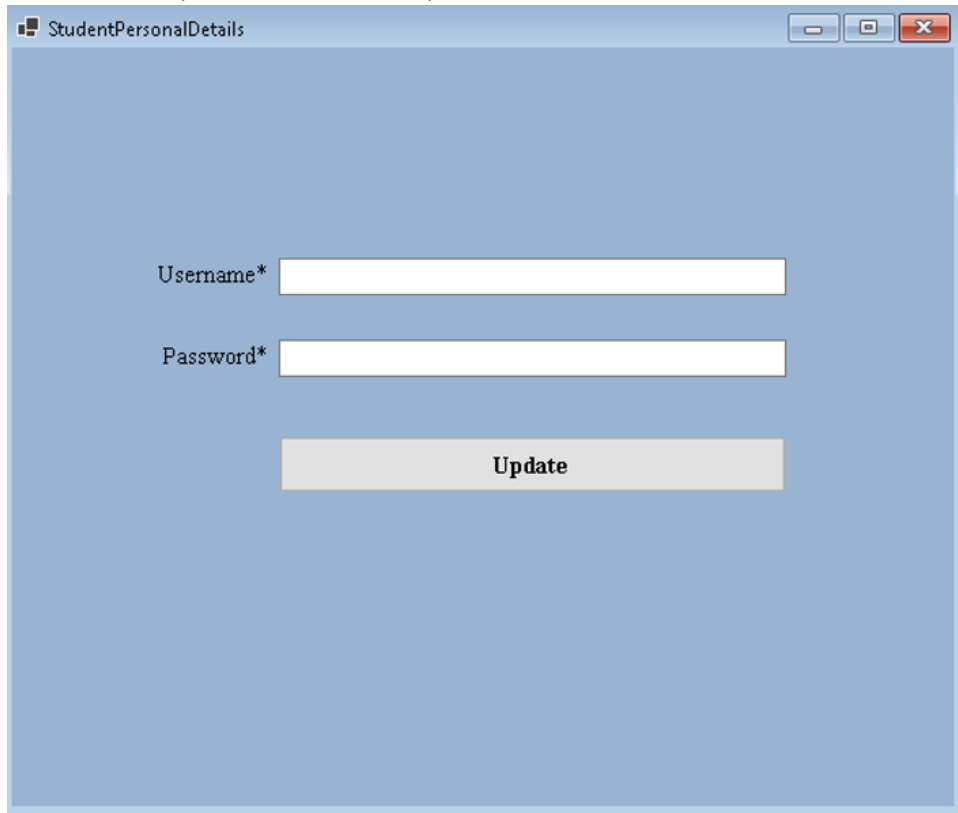
- “Register student to course”- this page allows the user to register a particular student to a course by adding the particular student ID and respective Course ID the user wants and entering the semester and year in which the student will take the course and click save.

The screenshot shows a window titled "InstructorRegStudentToCourse". It contains four text input fields arranged vertically, each preceded by a label: "Student ID:", "Course ID:", "Semester:", and "Year:". Below these fields is a single "Save" button. The window has a standard title bar with minimize, maximize, and close buttons.

3. Student: This page shows the functions of a student

The screenshot shows a window titled "Student". It contains three buttons arranged vertically in the center: "Personal Details", "Course Registered", and "Student Registered". The window has a standard title bar with minimize, maximize, and close buttons.

- “Personal Details”-this page allows the user to change their respective login details by changing their user and password and click update.



The screenshot shows a web application window with the title bar 'StudentPersonalDetails'. The window has a light blue background. In the center, there is a form with two text input fields. The first field is labeled 'Username*' and the second is labeled 'Password*'. Below these fields is a grey button with the text 'Update' in bold black font. The window also features standard Windows window controls (minimize, maximize, close) in the top right corner.

StudentPersonalDetails

Username*

Password*

Update