

A Project Report On...

College Management System

Developed By...

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Submitted To..

Geetanjali College

Saurashtra University

Rajkot

2024

[Guide Name]

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College Certificate



Acknowledgement

I would like to express my deepest gratitude to all those who contributed to the successful completion of this project.

First and foremost, I would like to thank [Your Mentor's Name], my project supervisor, for their invaluable guidance, support, and encouragement throughout the development of this college management system. Their expertise and insights were crucial in shaping the project and ensuring its success.

I would also like to extend my sincere thanks to the **Geetanjali College** for providing the resources and environment needed to complete this project. The faculty members of the Computer Science Department were always available for consultation and provided me with the necessary academic guidance.

A special mention goes to my friends and classmates for their constant encouragement and for being there to discuss ideas, troubleshoot issues, and share knowledge. Their support was instrumental in overcoming the challenges faced during the project.

Thank you all for your contributions to this work. I am truly grateful for your support.

Ayushi Mehta

Preface

The **College Management System** is an essential tool for modern educational institutions, designed to streamline and manage various administrative tasks effectively. This project, developed using C#, aims to simplify the complex processes involved in managing student data, faculty information, course details, and other related administrative functions.

In today's fast-paced world, educational institutions need efficient systems to handle the increasing amount of data generated daily. Traditional methods of managing college operations are not only time-consuming but also prone to errors. Recognizing this challenge, I embarked on developing a comprehensive solution that would address these issues by automating and integrating various administrative tasks.

This project has been a significant learning experience, allowing me to explore the practical applications of C# programming in real-world scenarios. It also provided an opportunity to enhance my understanding of database management, user interface design, and system integration, all of which are critical components in the development of robust software solutions.

The College Management System project is designed with a user-friendly interface, making it accessible for users with varying levels of technical expertise. It ensures data accuracy, reduces redundancy, and improves overall efficiency in managing college operations.

I hope that this project not only serves as a useful tool for educational institutions but also as a stepping stone for future developments in the field of educational software. The experience and knowledge gained during this project have been invaluable, and I look forward to applying these skills in future endeavors.

Ayushi Mehta

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Project Profile

➔ Objectives

To develop a comprehensive College Management System using C# that streamlines and automates various administrative processes, including student enrollment, course management, and faculty information.

➔ Key Features

Key features for a College Management System project in C#.NET includes adding students, faculties and courses. It also allows admin to modify the records of students and faculties. It also allows admin to modify course details.



Project Requirement

Project: College Management System

Technology: C#.NET

Database: Microsoft SQL Server Express

Functionality:

➔ **User Authentication:**

- Login for administrators.

➔ **Student Management:**

- Register new students.
- Modify existing student records (e.g., personal information, academic details, course enrollment).

➔ **Faculty Management:**

- Register new faculty members.
- Modify existing faculty records (e.g., personal information, teaching assignments, qualifications).

➔ **Course Management:**

- Create and manage course information (e.g., course name, description, prerequisites).
- Modify existing course details.

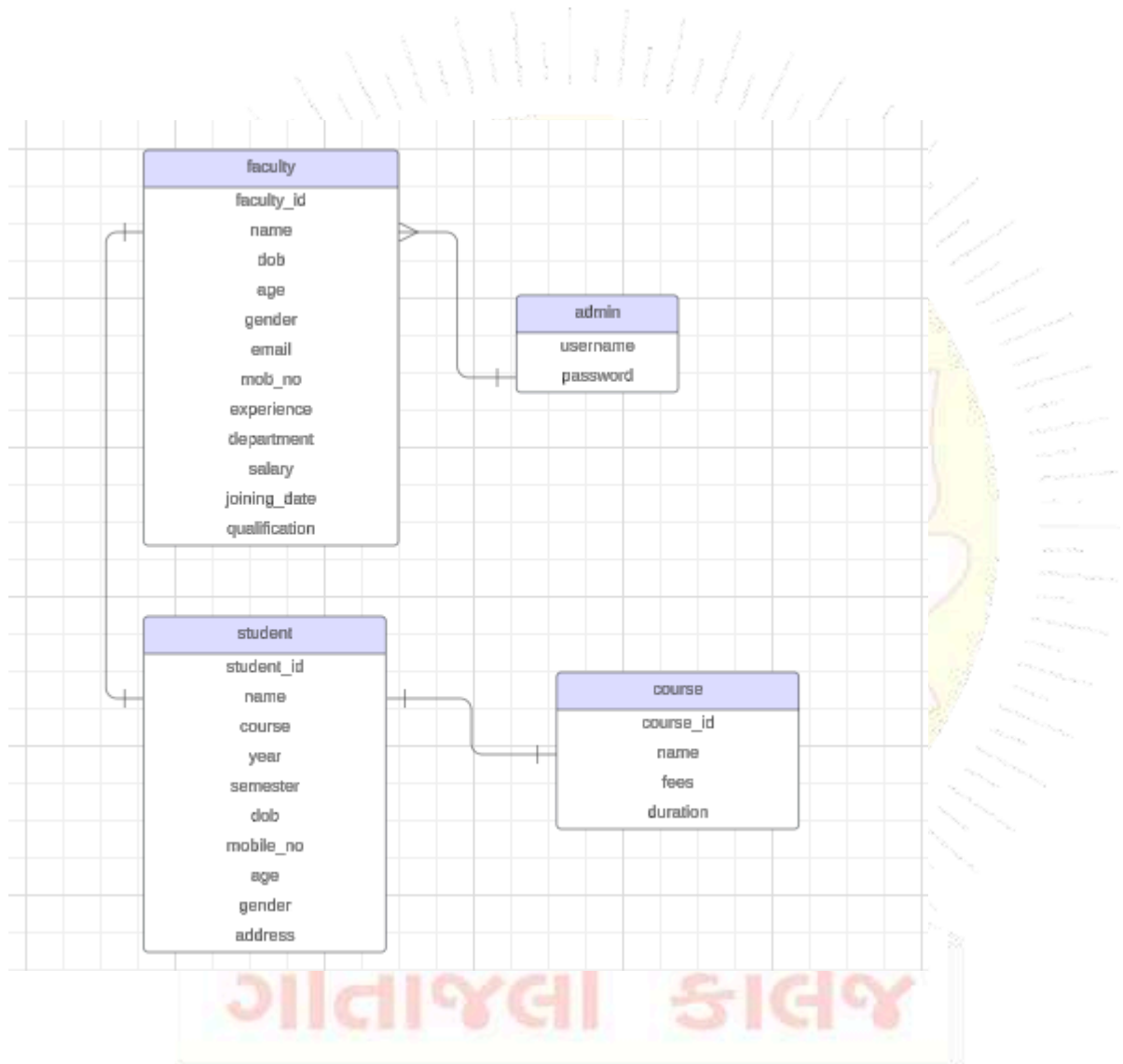
Technology Requirement

Operating System	Windows 8 or higher
Development Environment	Visual Studio 2022
Database	MSSQL
.NET Version	.NET 4.7.2
Language	C#.NET



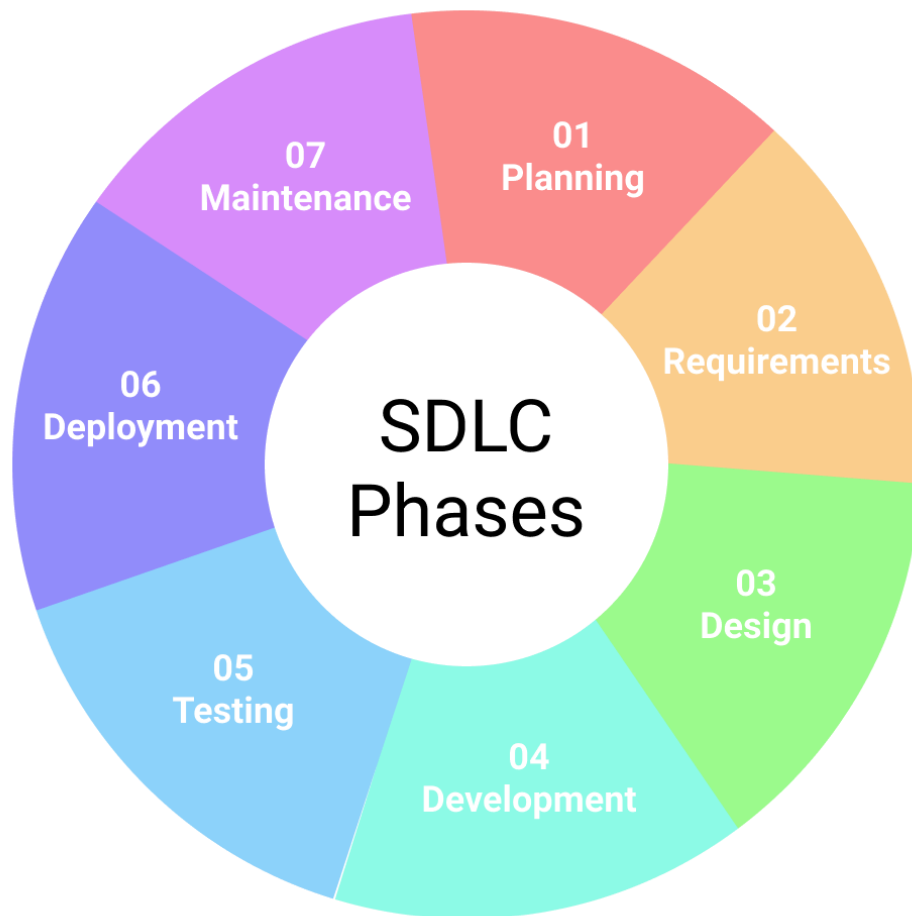
System Design Tools

[ER Diagram]



System Design Tools

[SDLC]



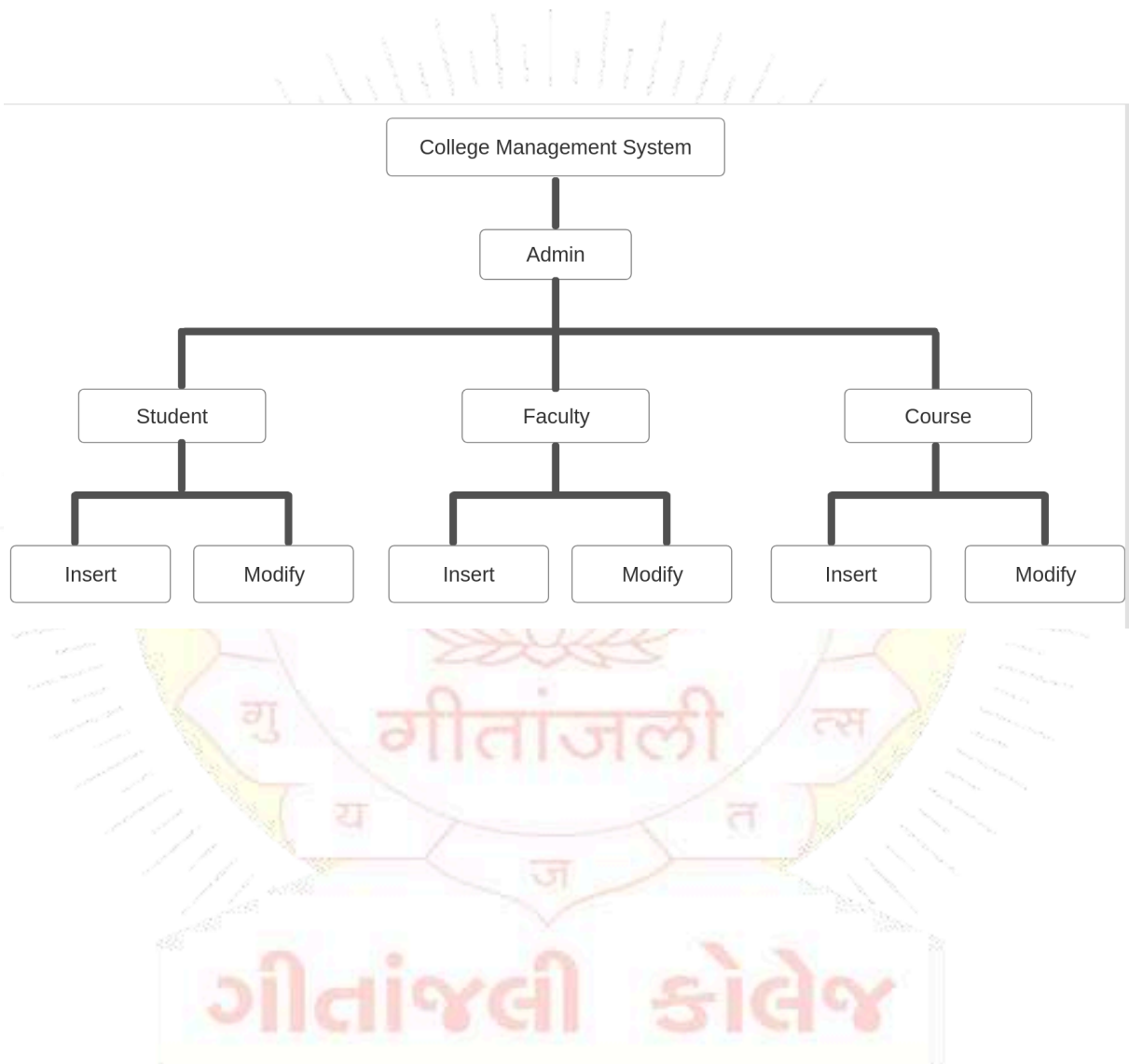
System Design Tools

[Level-0 DFD]



System Design Tools

[Level-1 DFD]



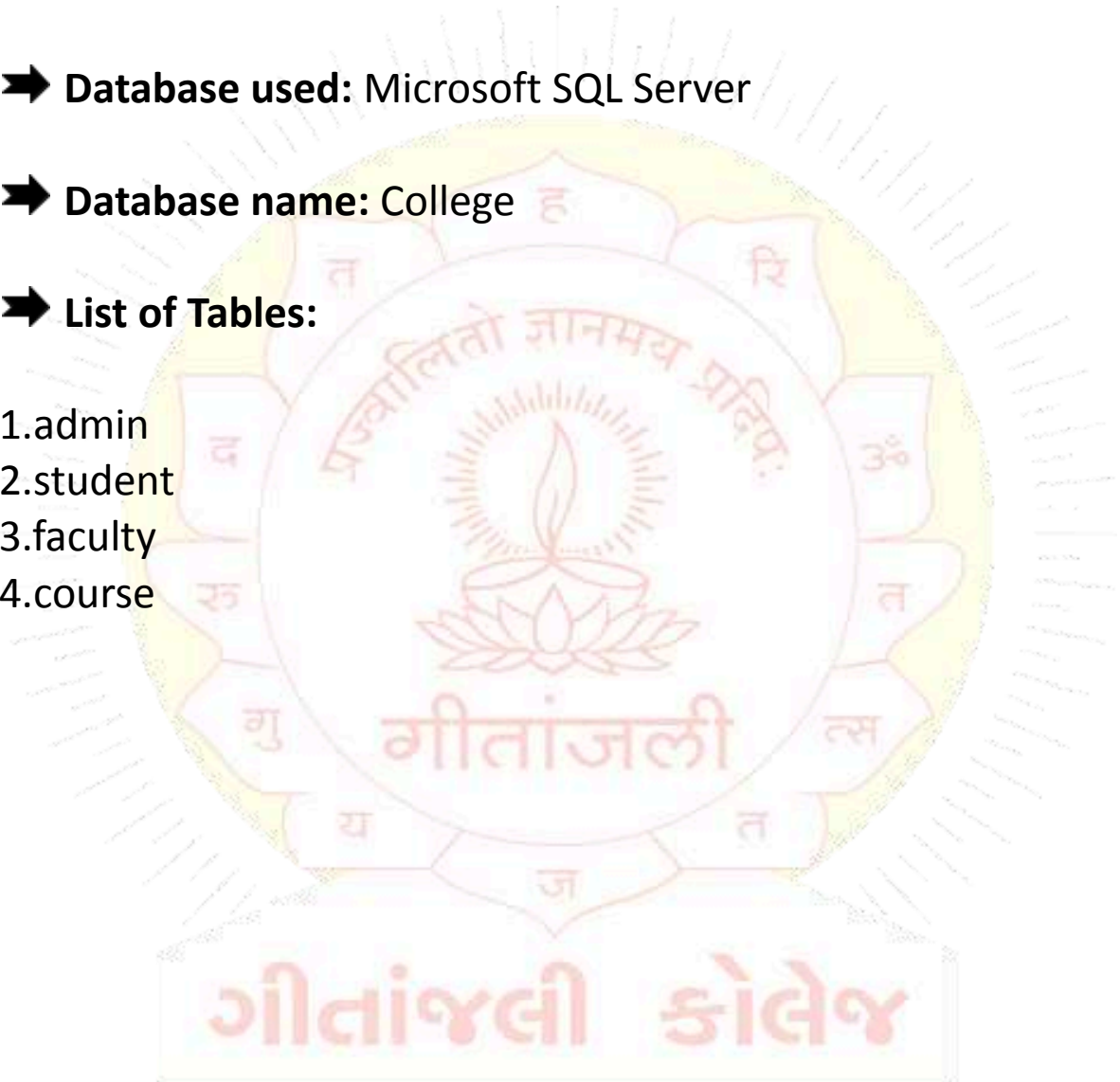
Data Dictionary

➔ **Database used:** Microsoft SQL Server

➔ **Database name:** College

➔ **List of Tables:**

- 1.admin
- 2.student
- 3.faculty
- 4.course



Data Dictionary

➔ admin

Sr. No.	Field Name	Data Type	Constraint	Description
1.	username	VARCHAR(50)	Not Null	Username
2.	password	VARCHAR(50)	Not Null	Password

➔ student

Sr. No.	Field Name	Data Type	Constraint	Description
1.	stud_id	VARCHAR(50)	Not Null	Student ID
2.	name	VARCHAR(50)	Not Null	Name
3.	course	VARCHAR(50)	Not Null	Course
4.	year	VARCHAR(50)	Not Null	Year
5.	semester	VARCHAR(50)	Not Null	Semester
6.	dob	VARCHAR(MAX)	Not Null	Date of Birth
7.	mobile_no	VARCHAR(10)	Not Null	Mobile Number
8.	age	VARCHAR(50)	Not Null	Age
9.	gender	VARCHAR(1)	Not Null	Gender
10.	address	VARCHAR(MAX)	Not Null	Address

Data Dictionary

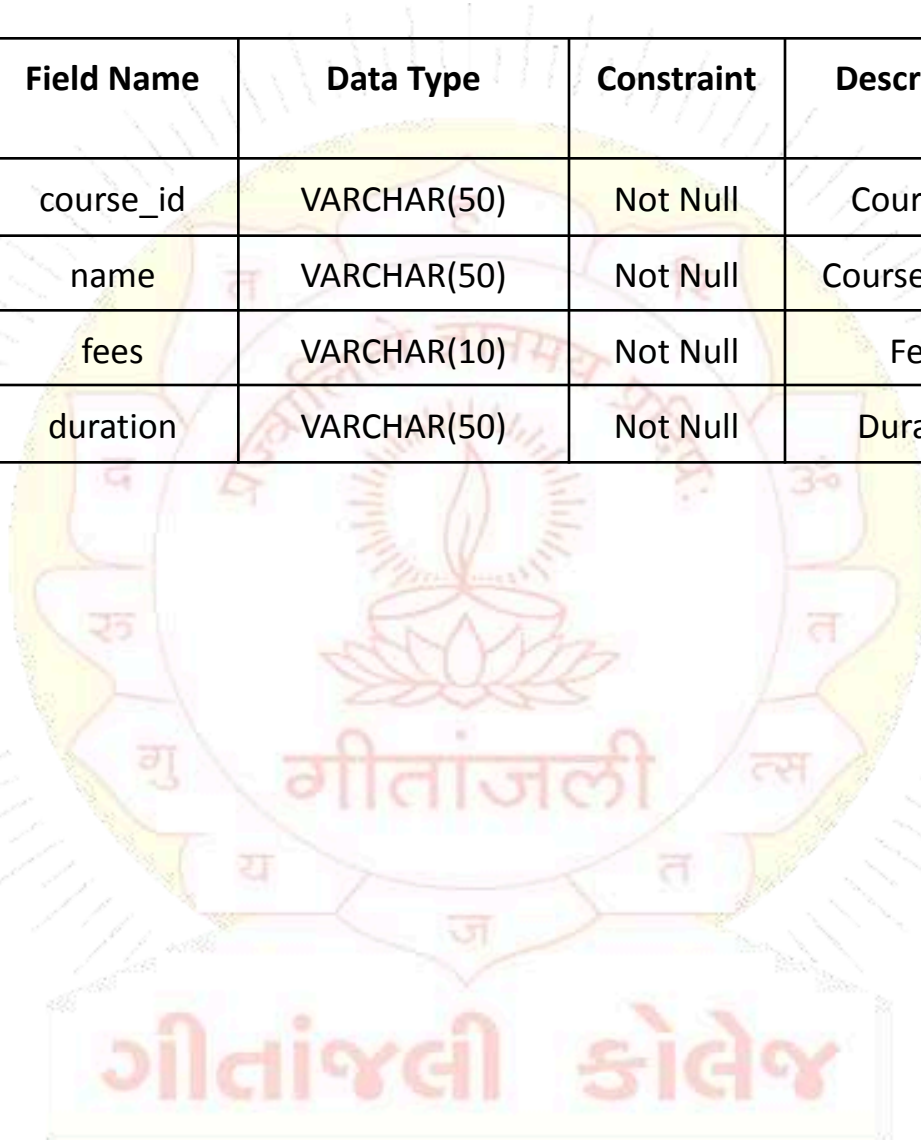
➔ faculty

Sr. No.	Field Name	Data Type	Constraint	Description
1.	faculty_id	VARCHAR(50)	Not Null	Faculty ID
2.	name	VARCHAR(50)	Not Null	Name
3.	dob	VARCHAR(MAX)	Not Null	Date of Birth
4.	age	VARCHAR(50)	Not Null	Age
5.	gender	VARCHAR(1)	Not Null	Gender
6.	email	VARCHAR(100)	Not Null	Email
7.	mob_no	VARCHAR(10)	Not Null	Mobile Number
8.	experience	VARCHAR(50)	Not Null	Experience
9.	department	VARCHAR(50)	Not Null	Department
10.	salary	VARCHAR(10)	Not Null	Salary
11.	joining_date	VARCHAR(MAX)	Not Null	Joining Date
12.	qualification	VARCHAR(MAX)	Not Null	Qualification

Data Dictionary

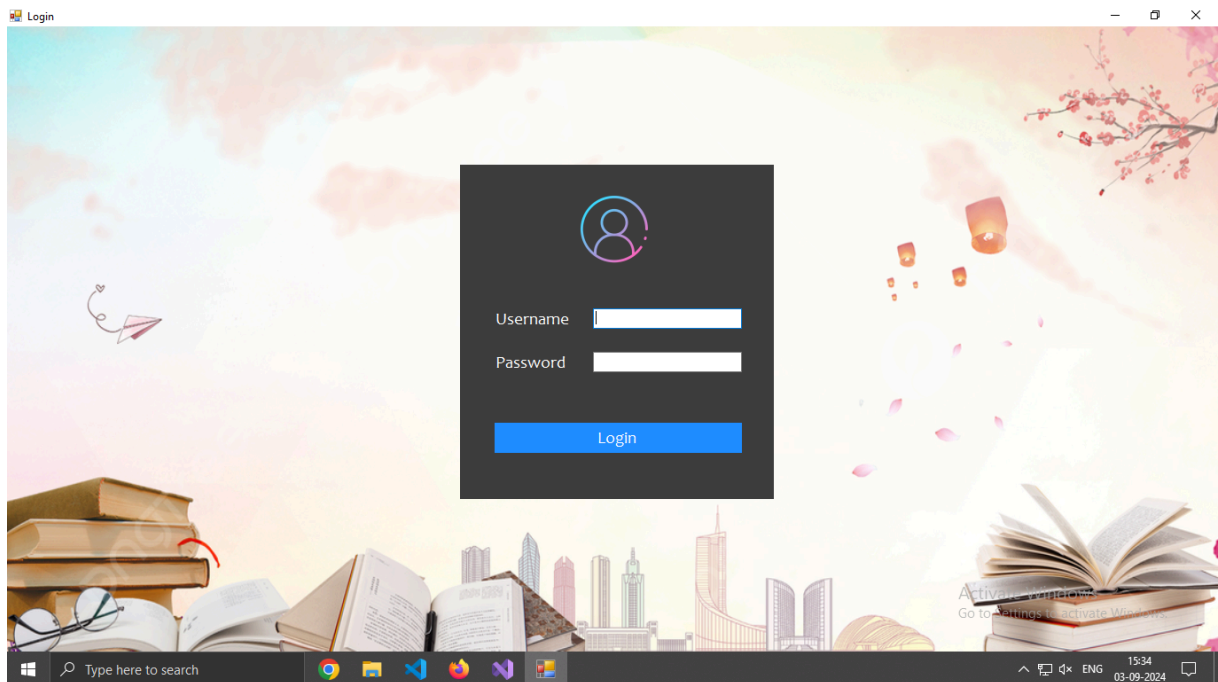
➔ course

Sr. No.	Field Name	Data Type	Constraint	Description
1.	course_id	VARCHAR(50)	Not Null	Course ID
2.	name	VARCHAR(50)	Not Null	Course Name
3.	fees	VARCHAR(10)	Not Null	Fees
4.	duration	VARCHAR(50)	Not Null	Duration



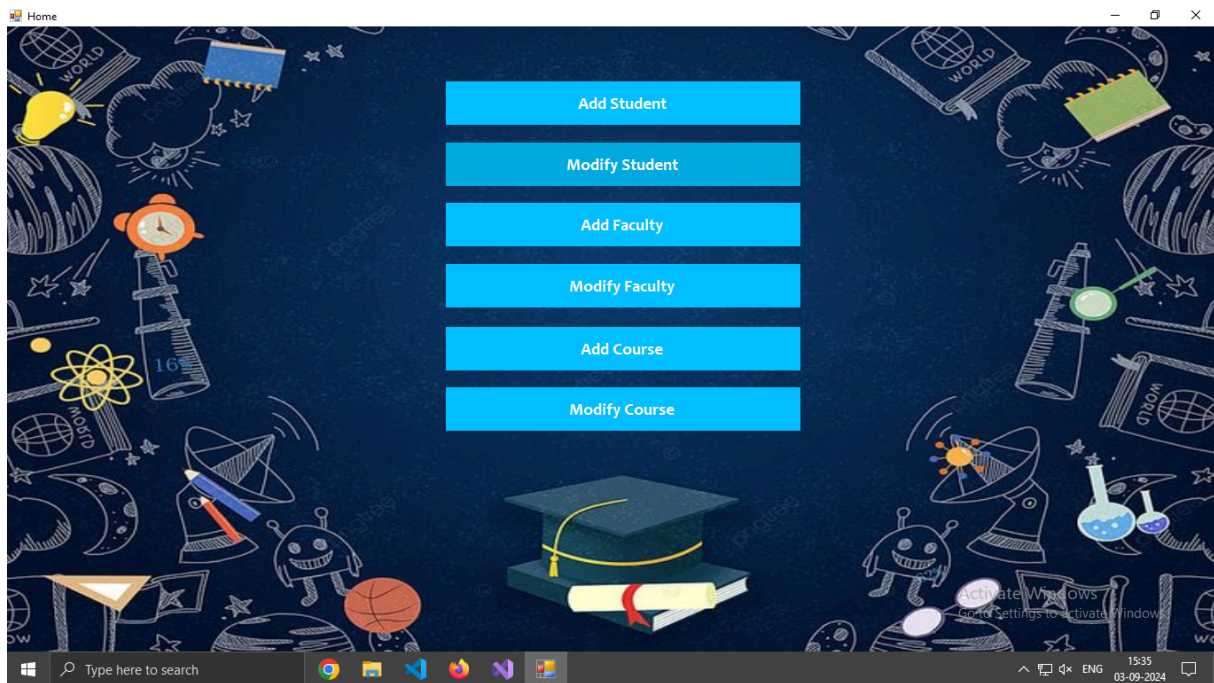
Screen Shots

➡ Login Page



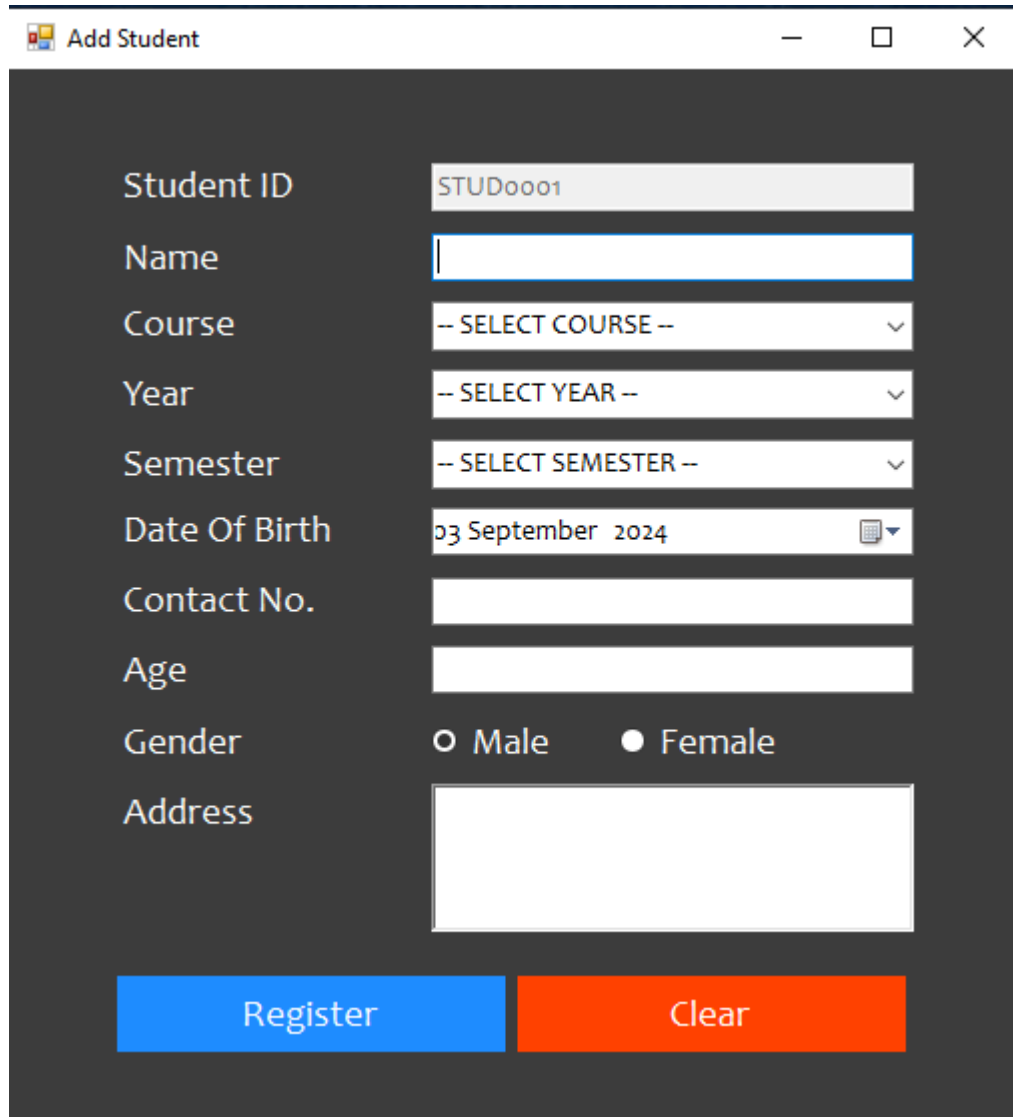
Screen Shots

➡ Home Page



Screen Shots

➡ Add Student



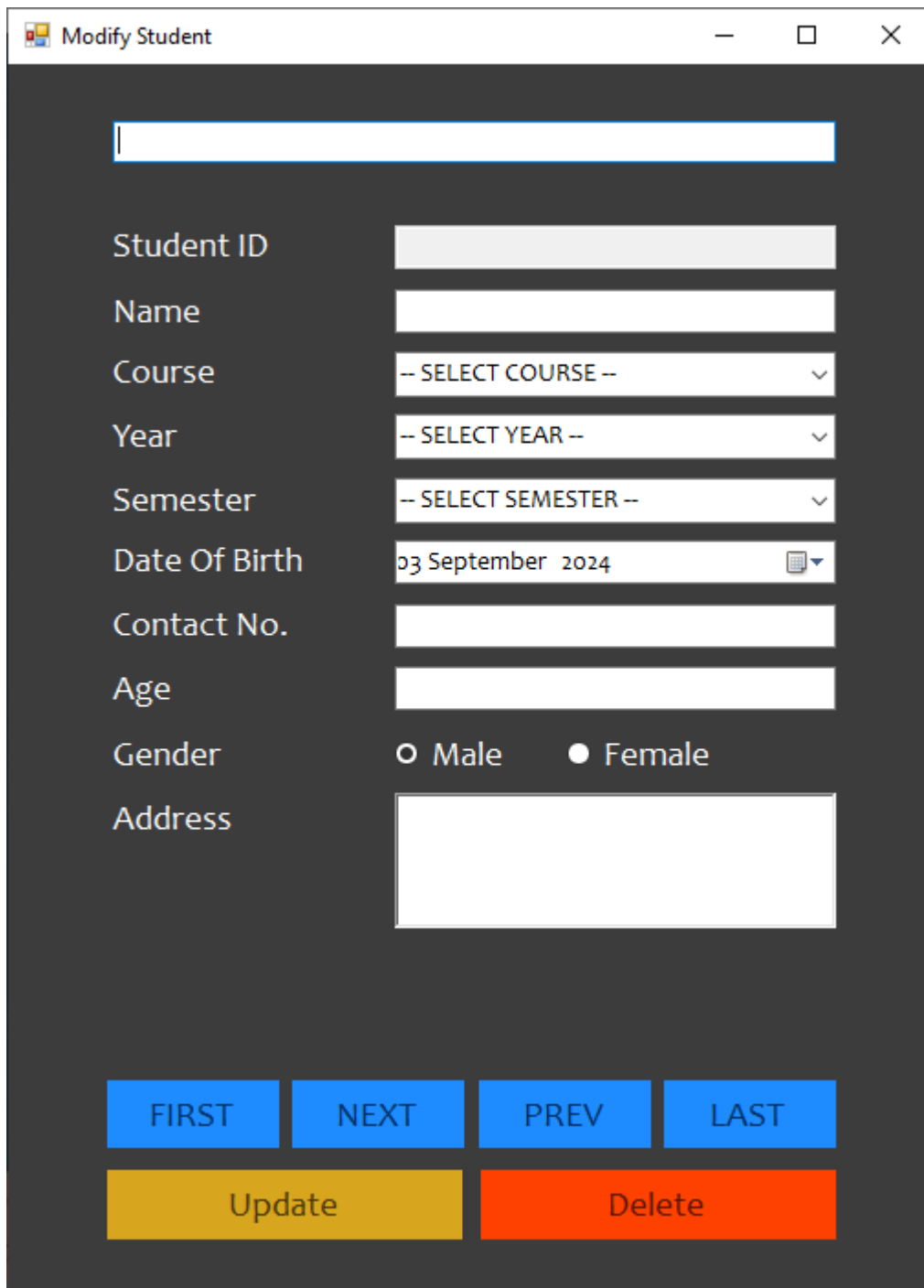
The screenshot shows a web application window titled "Add Student". The form contains the following fields and controls:

- Student ID:** A text input field containing the value "STUD0001".
- Name:** A text input field that is currently empty.
- Course:** A dropdown menu showing "-- SELECT COURSE --".
- Year:** A dropdown menu showing "-- SELECT YEAR --".
- Semester:** A dropdown menu showing "-- SELECT SEMESTER --".
- Date Of Birth:** A date picker field showing "03 September 2024".
- Contact No.:** A text input field that is currently empty.
- Age:** A text input field that is currently empty.
- Gender:** Two radio buttons labeled "Male" and "Female". The "Female" radio button is selected.
- Address:** A large text area that is currently empty.

At the bottom of the form, there are two buttons: a blue "Register" button and an orange "Clear" button.

Screen Shots

➡ Modify Student



The screenshot shows a web application window titled "Modify Student". The interface is dark-themed with white text and input fields. At the top, there is a search bar. Below it, the form contains several fields for student information: "Student ID" (disabled), "Name", "Course" (dropdown), "Year" (dropdown), "Semester" (dropdown), "Date Of Birth" (calendar icon), "Contact No.", "Age", "Gender" (radio buttons for Male and Female), and "Address" (text area). At the bottom, there are four blue buttons labeled "FIRST", "NEXT", "PREV", and "LAST", and two larger buttons labeled "Update" (yellow) and "Delete" (orange).

Student ID	<input type="text" value=""/>
Name	<input type="text" value=""/>
Course	-- SELECT COURSE --
Year	-- SELECT YEAR --
Semester	-- SELECT SEMESTER --
Date Of Birth	03 September 2024
Contact No.	<input type="text" value=""/>
Age	<input type="text" value=""/>
Gender	<input type="radio"/> Male <input checked="" type="radio"/> Female
Address	<input type="text" value=""/>

FIRST

NEXT

PREV

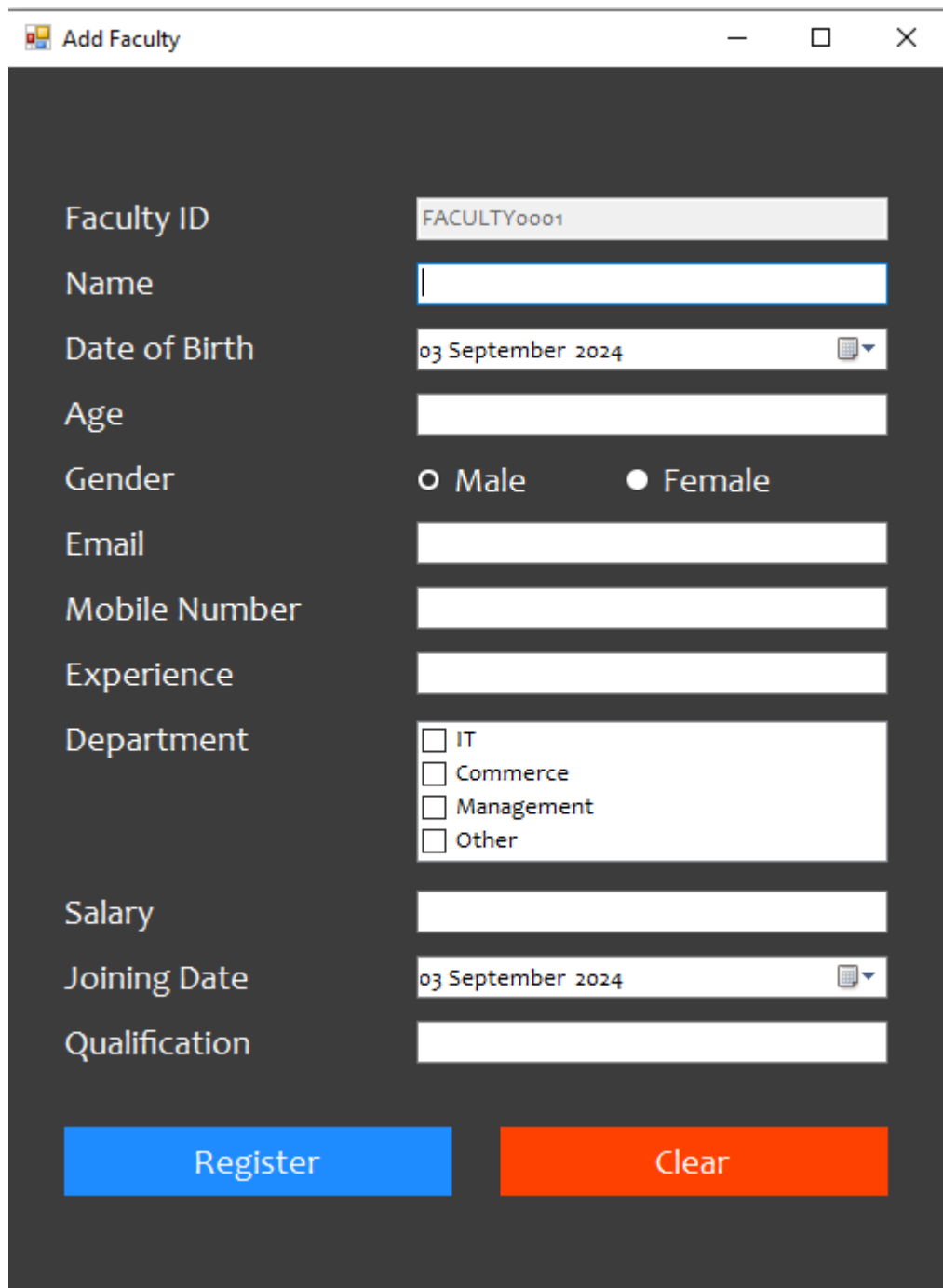
LAST

Update

Delete

Screen Shots

➡ Add Faculty



The screenshot shows a web browser window titled "Add Faculty". The form is set against a dark grey background with white text labels for each field. The fields are arranged vertically. The "Faculty ID" field is pre-filled with "FACULTY0001". The "Date of Birth" and "Joining Date" fields are date pickers, both showing "03 September 2024". The "Gender" field has two radio buttons, "Male" (unselected) and "Female" (selected). The "Department" field is a list box with four options: "IT", "Commerce", "Management", and "Other", all of which are currently unselected. At the bottom, there are two buttons: a blue "Register" button and an orange "Clear" button.

Faculty ID	FACULTY0001
Name	
Date of Birth	03 September 2024
Age	
Gender	<input type="radio"/> Male <input checked="" type="radio"/> Female
Email	
Mobile Number	
Experience	
Department	<input type="checkbox"/> IT <input type="checkbox"/> Commerce <input type="checkbox"/> Management <input type="checkbox"/> Other
Salary	
Joining Date	03 September 2024
Qualification	

[Register](#) [Clear](#)

Screen Shots

➡ Modify Faculty Records

ModifyFaculty

Faculty ID

Name

Date of Birth

03 September 2024

Age

Gender

☐ Male

☒ Female

Email

Mobile Number

Experience

Department

☐ IT

☐ Commerce

☐ Management

☐ Other

Salary

Joining Date

03 September 2024

Qualification

FIRST

NEXT

PREV

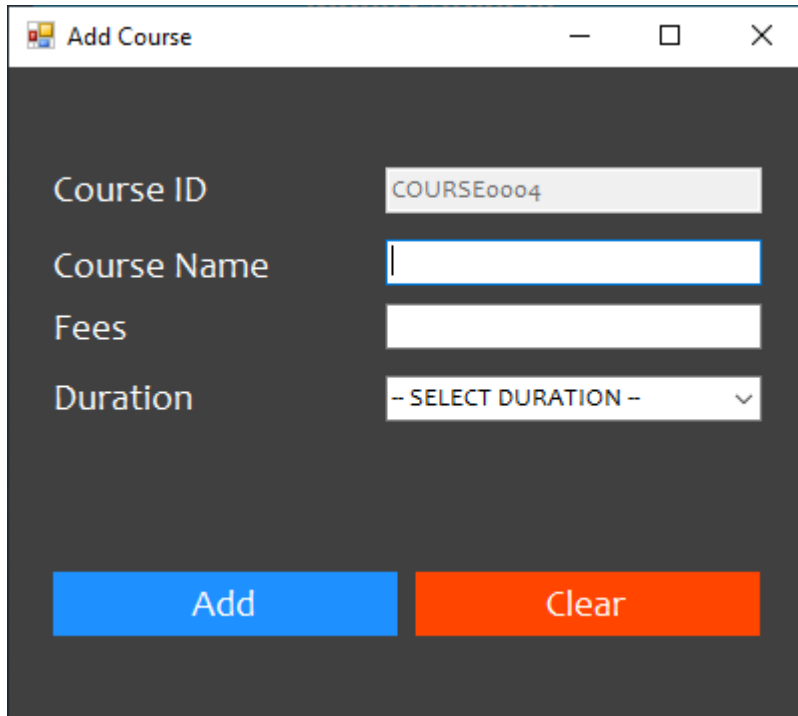
LAST

Update

Delete

Screen Shots

➡ Add Course



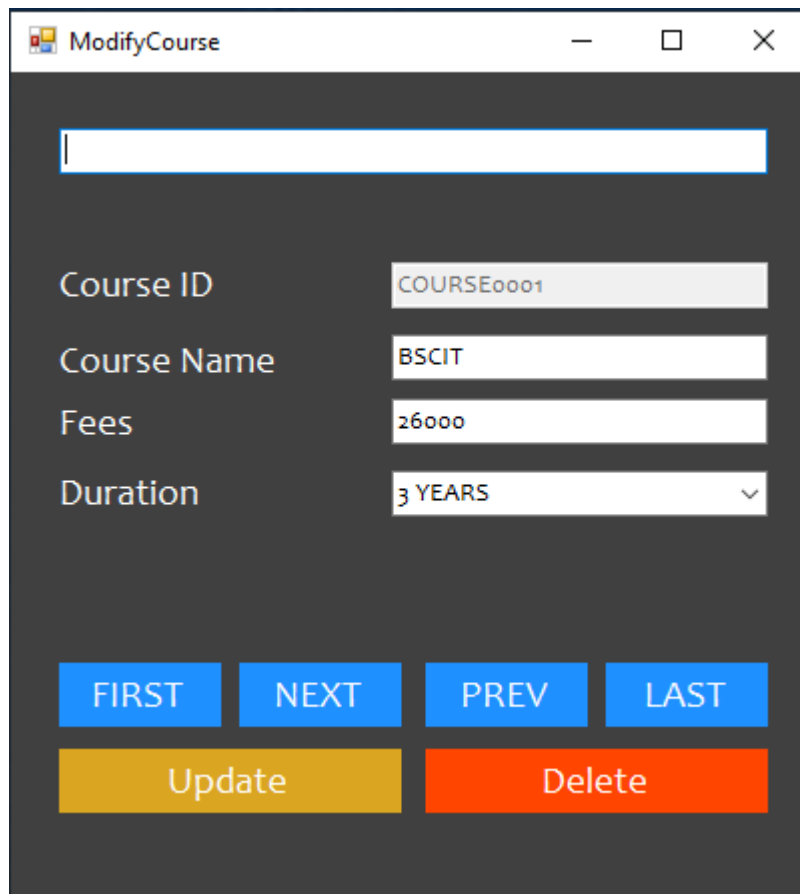
The screenshot shows a window titled "Add Course" with a dark gray background. It contains four input fields and two buttons. The "Course ID" field is a text box with the value "COURSE0004". The "Course Name" field is a text box with a cursor. The "Fees" field is a text box. The "Duration" field is a dropdown menu with the text "-- SELECT DURATION --" and a downward arrow. At the bottom, there are two buttons: a blue "Add" button and an orange "Clear" button.

Field	Value
Course ID	COURSE0004
Course Name	
Fees	
Duration	-- SELECT DURATION --

Buttons: Add, Clear

Screen Shots

➡ Modify Course



The screenshot shows a web application window titled "ModifyCourse". At the top, there is a search bar. Below it, the form displays the following fields:

Course ID	COURSE0001
Course Name	BSCIT
Fees	26000
Duration	3 YEARS

At the bottom of the form, there are two rows of buttons:

- Navigation buttons: FIRST, NEXT, PREV, LAST (all in blue).
- Action buttons: Update (in yellow), Delete (in orange).

Future Requirements of Project

- ➔ Attendance of students
- ➔ Syllabus of courses
- ➔ Generate fees report



Limitations of Project

- ➔ Visual Studio is necessary for this project to run.
- ➔ There is only the admin side. No user side.



Webliography

Google

Source: <https://google.com>

Stackoverflow

Source: <https://stackoverflow.com>

Github

Source: <https://github.com>

