A Project Report On…

College Management System

Developed By…

Ayushi Mehta

Submitted To..

Geetanjali College

Saurashtra University

Rajkot

2024

[Guide Name]

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.

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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

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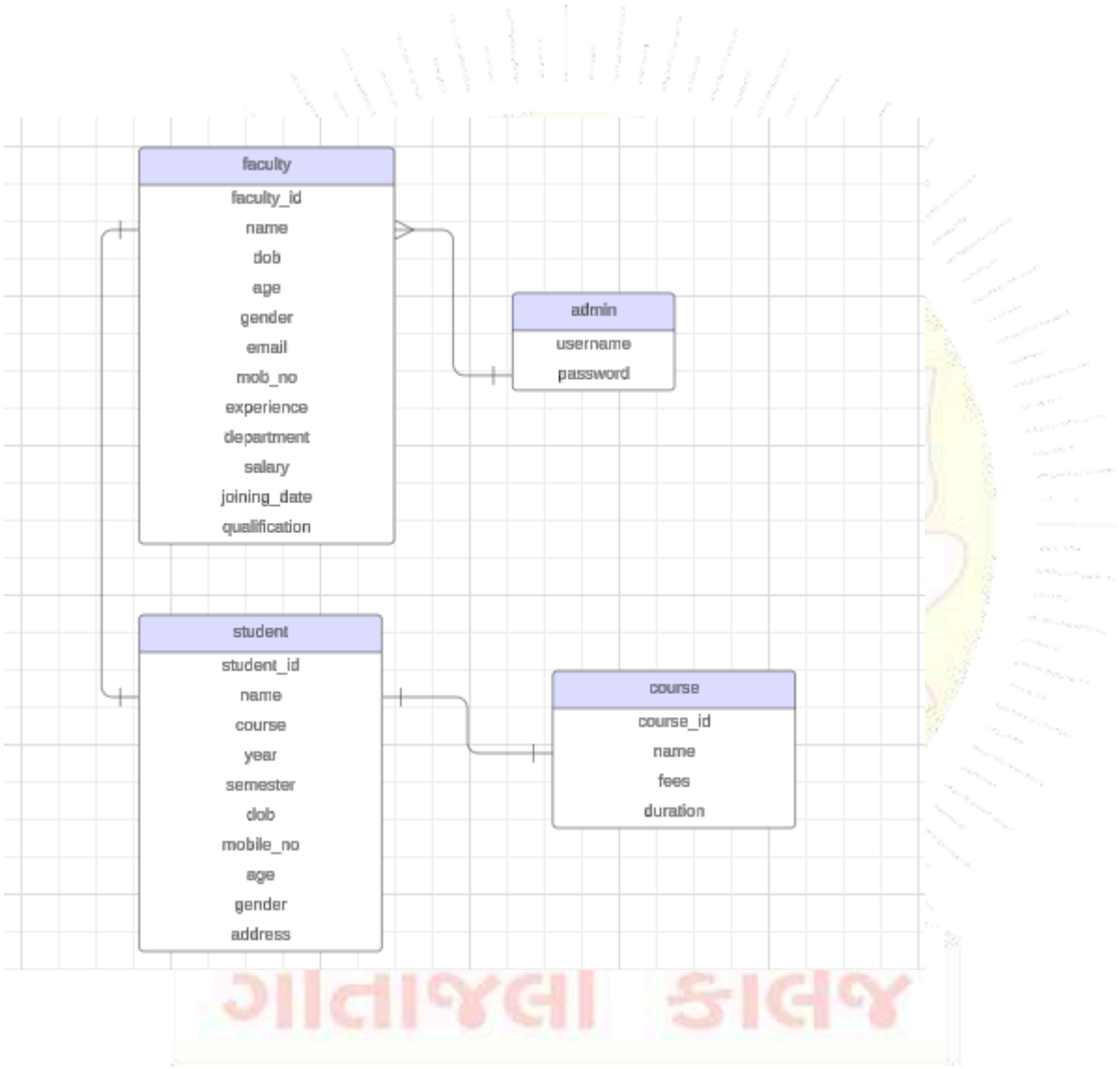
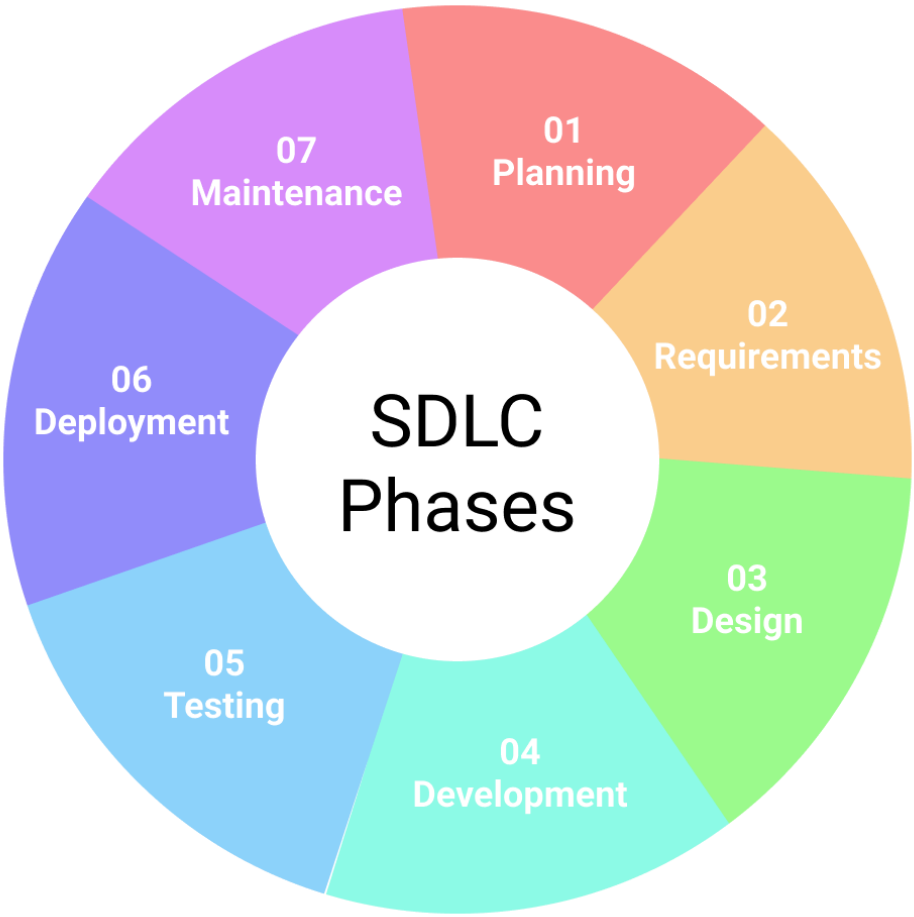
System Design Tools

[ER Diagram]



System Design Tools

[SDLC]



System Design Tools

[Level-0 DFD]

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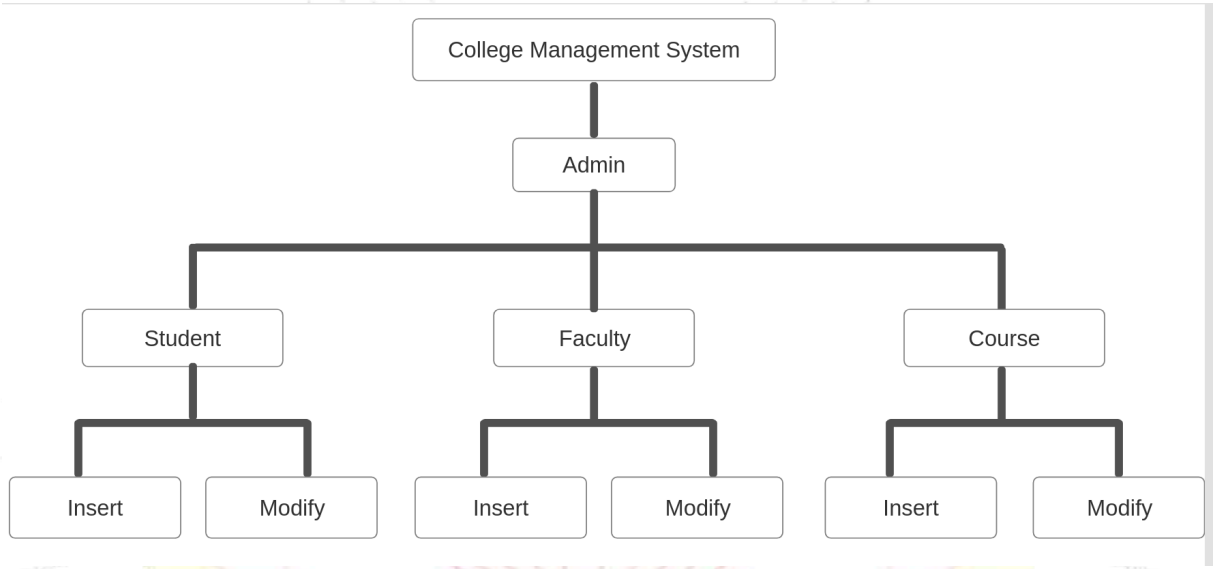
System Design Tools

[Level-1 DFD]



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Data Dictionary

➡ **Database used:** Microsoft SQL Server

➡ **Database name:** College

➡ **List of Tables:**

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

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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

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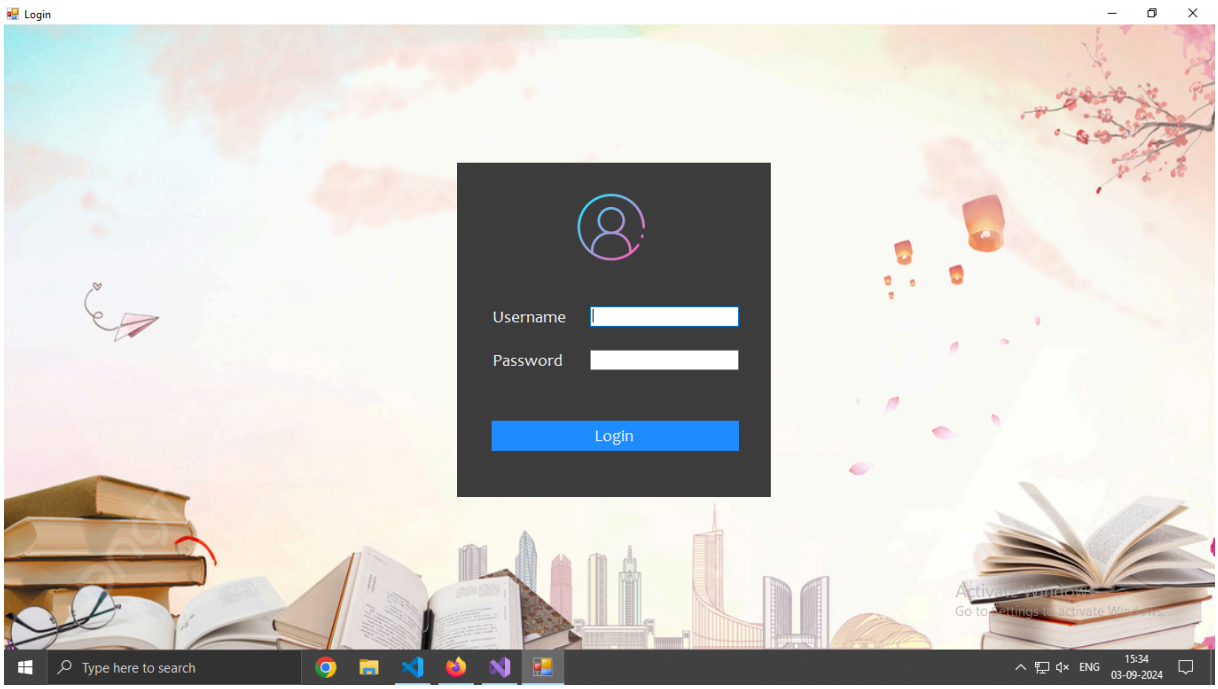
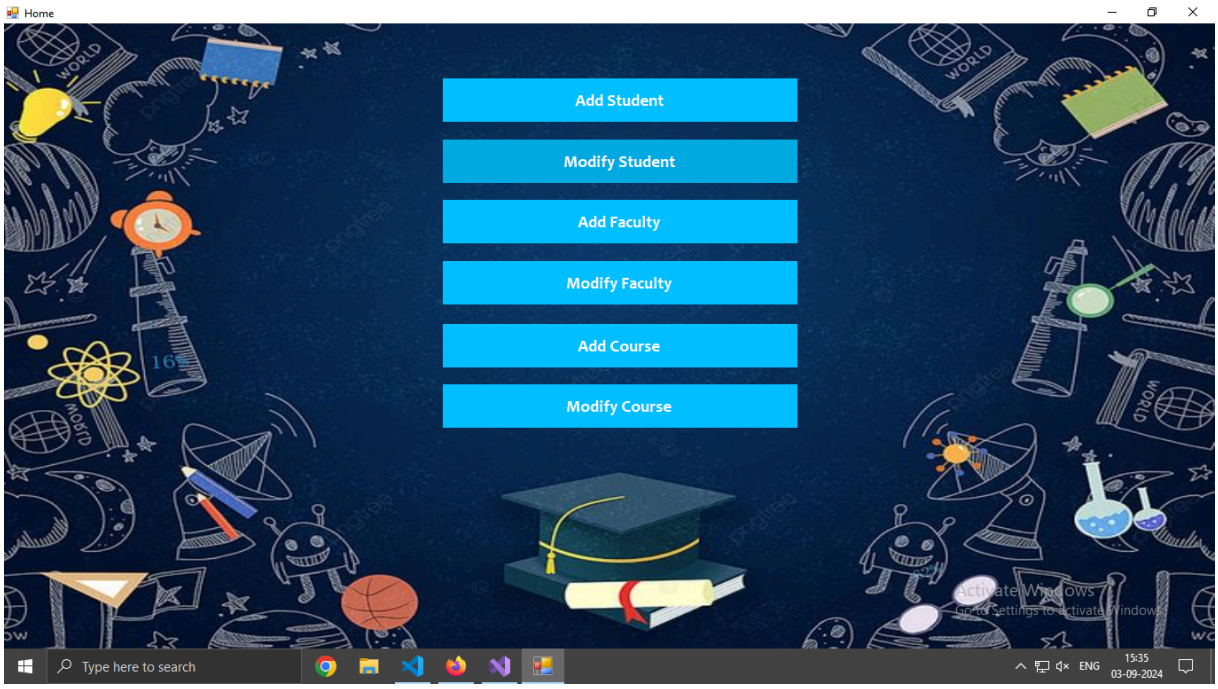
Screen Shots

➡ Login Page



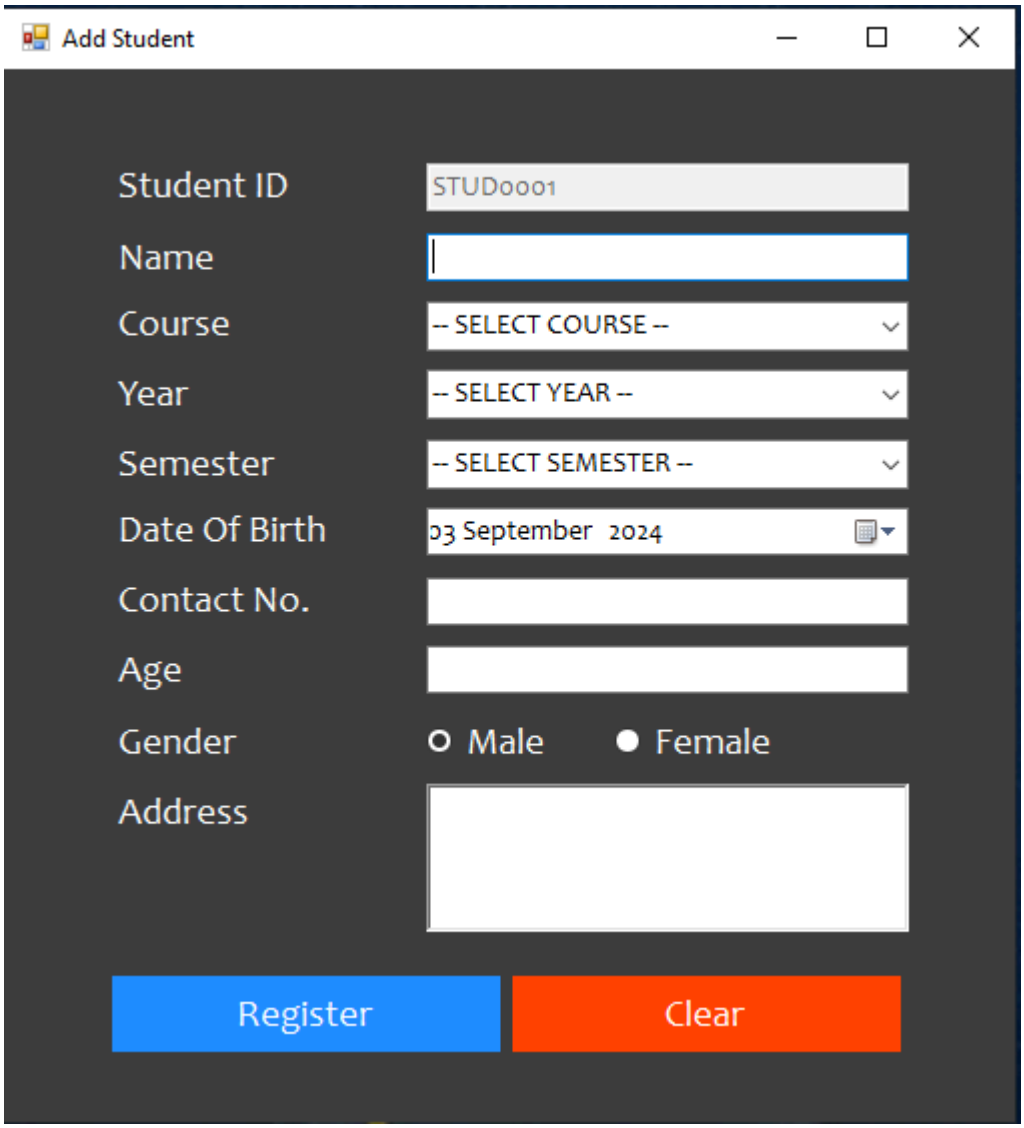
Screen Shots

➡ Home Page



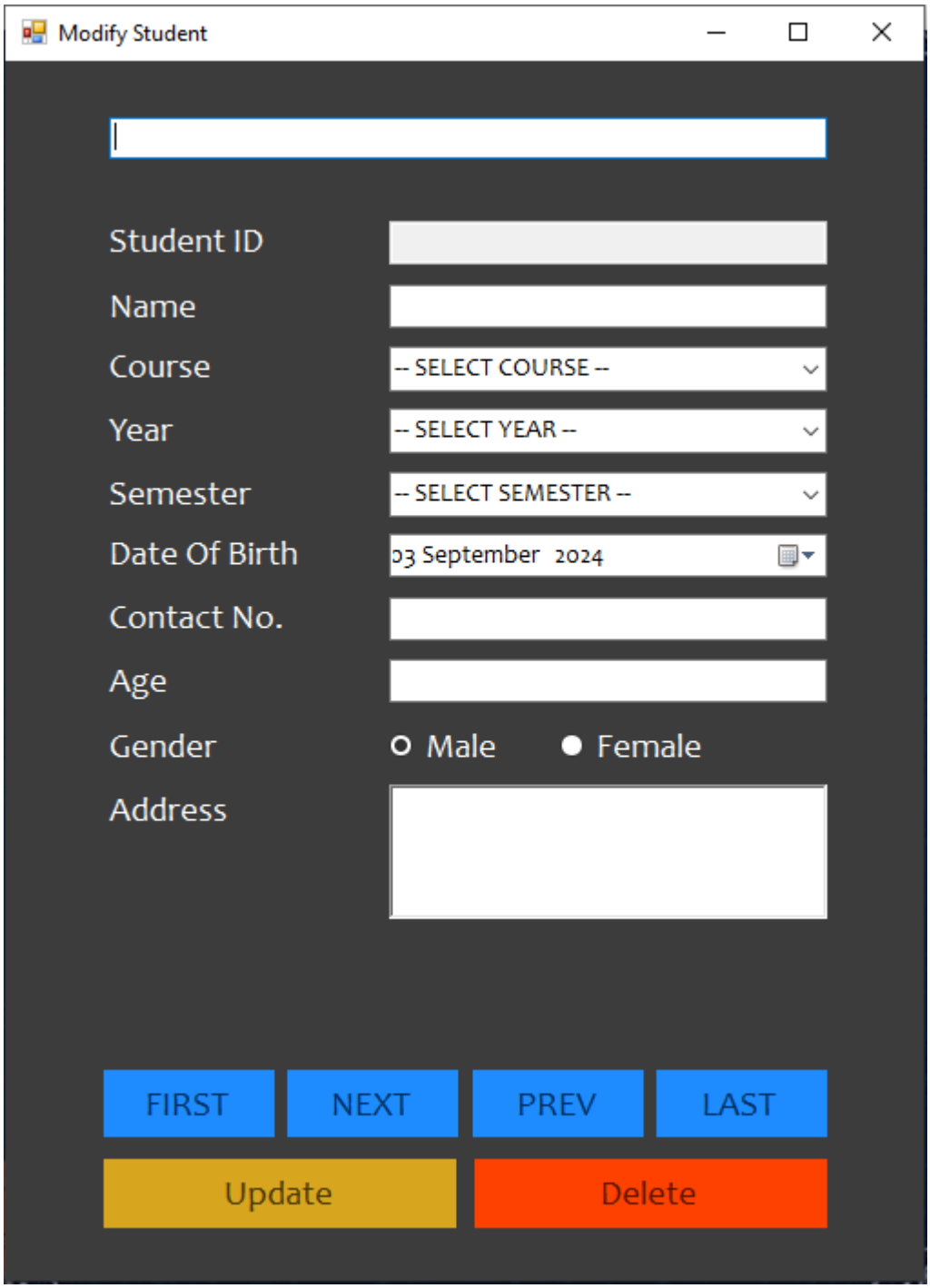
Screen Shots

➡ Add Student



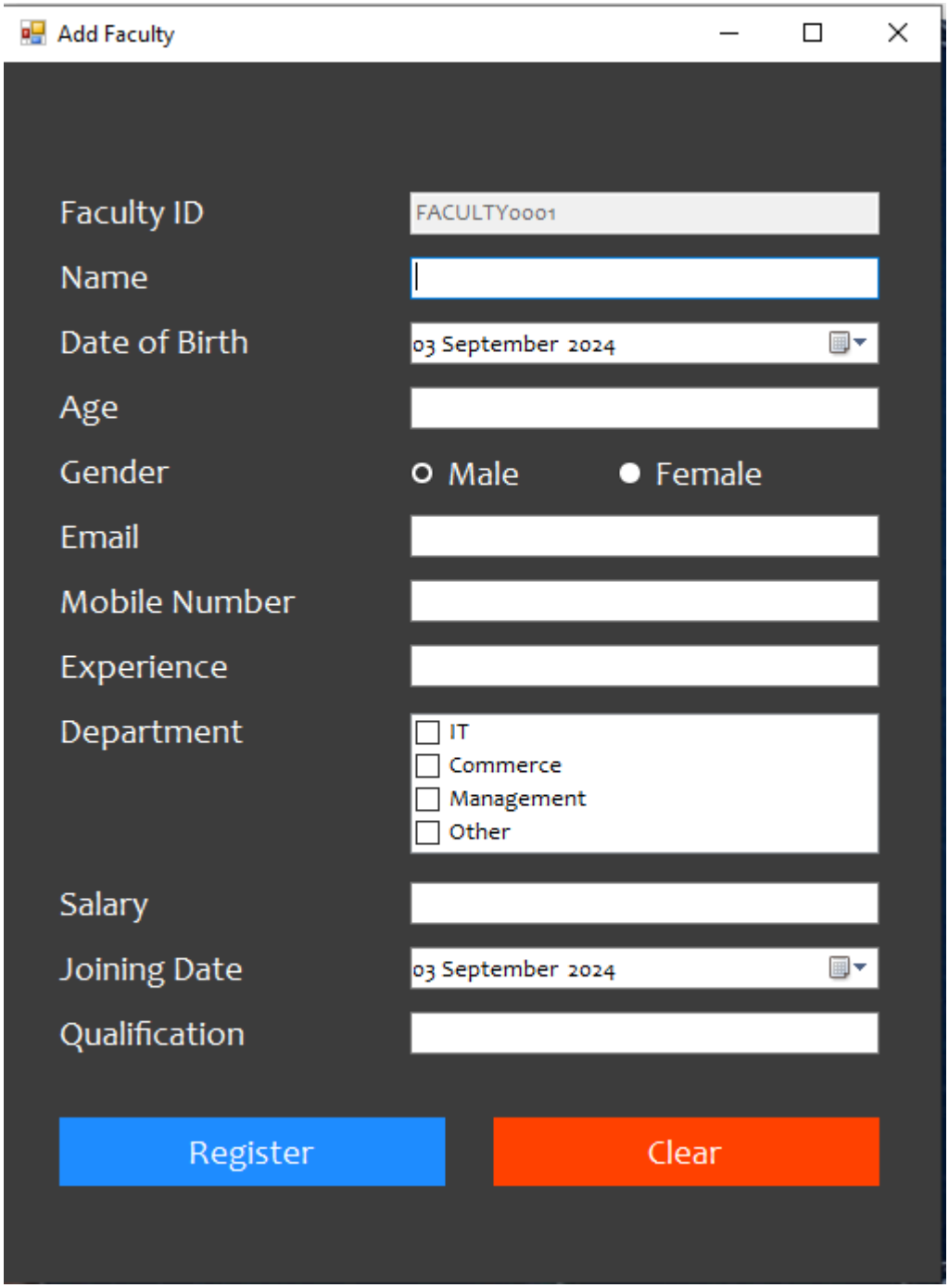
Screen Shots

➡ Modify Student



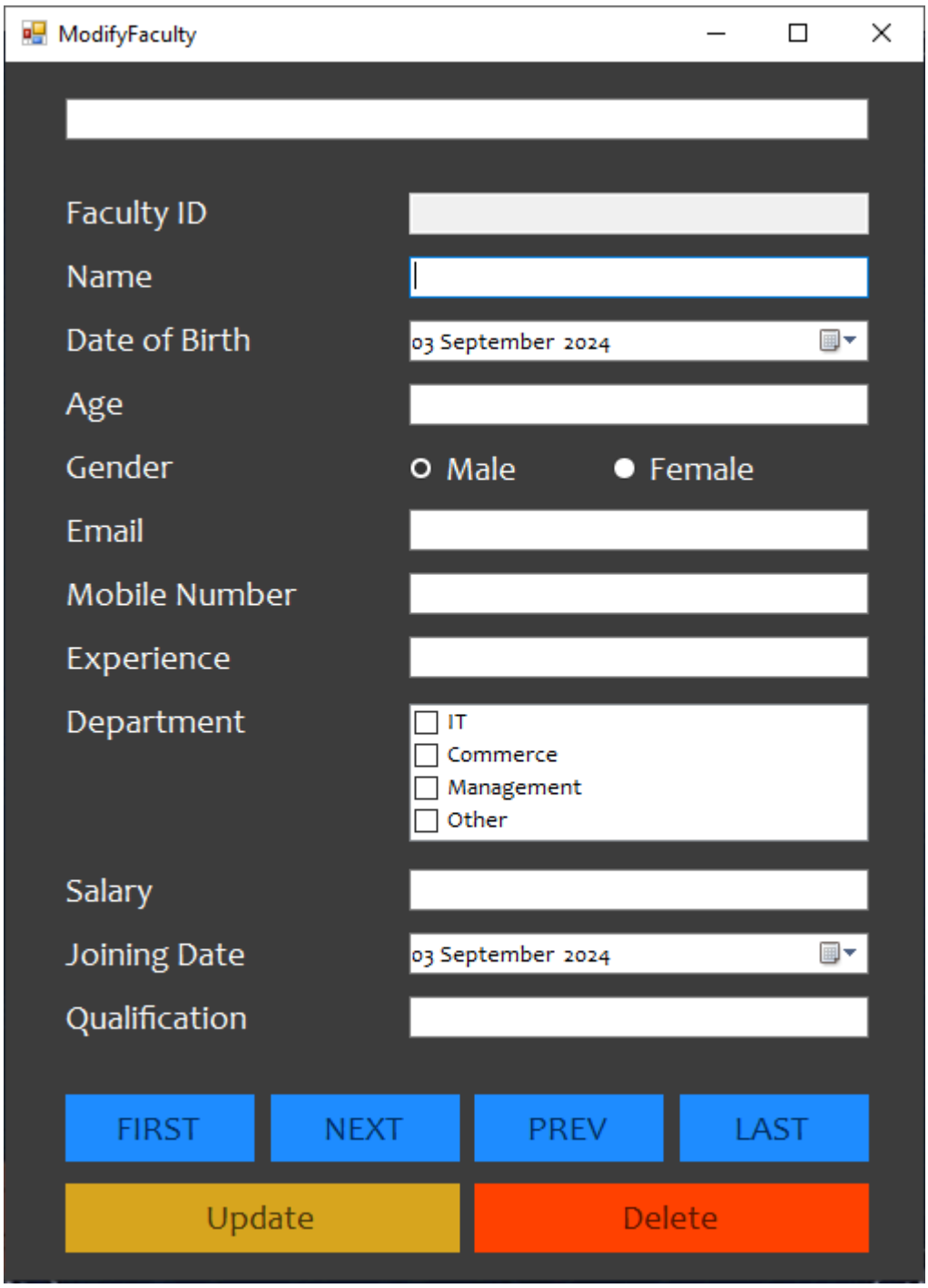
Screen Shots

➡ Add Faculty



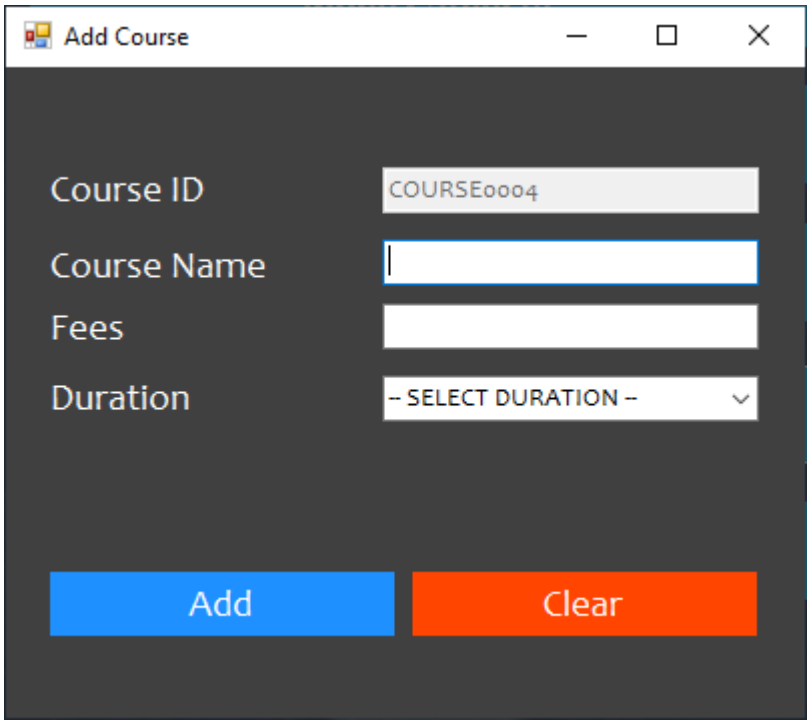
Screen Shots

➡ Modify Faculty Records



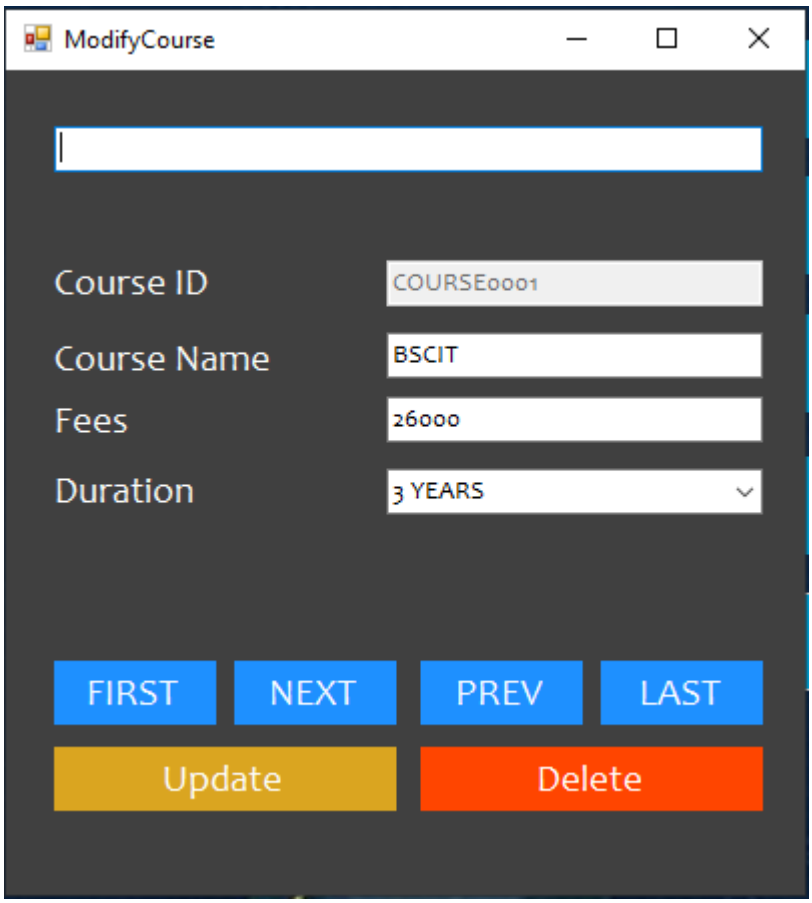
Screen Shots

➡ Add Course



Screen Shots

➡ Modify Course



Future Requirements of Project

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

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Limitations of Project

➡ Visual Studio is necessary for this project to run.

➡ There is only the admin side. No user side.

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Webliography

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Source: https://stackoverflow.com

Github
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