



# Web-Based Placement Portal using C-Sharp

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## Abstract:

The college's placement department uses the Poornima Placement Portal, a web-based program, to submit student information for the hiring process. All of the student information is in the system. The system saves all of the students' data as well as their technical abilities, which are needed for a résumé that is sent to an employer. With the right login, the system, which is an online program, may be accessed both inside and outside the company. The college can utilize the system to handle student data related to placement information. All of the student information is contained in this project and can be accessed by all users (read-only), but it can only be changed by the student via an authorized service. Only the students themselves may change their information. The information needed for the selection procedure for placement papers is available for students to seek. All users get access to the college's current events as well as the accomplishments of chosen students. As a result, our software offers a facility for preserving student information and gets the desired list of prospects for businesses looking to hire employees based on a specific query. Training and placement cell has a very important role in college. Designing a web portal for training and placement cell is aimed at providing help to automate the manual activity of the placement cell. The application can store all the information of the student like their personal information, all the information related to their academics, skills, resume, etc. Students will be able to log in, view, and apply for the drives in which they're interested. The T&P officer of the college will have access to all the information related to students which are required for them. Only Respective Students can edit their details. The T&P officer can also filter the number of students eligible for a specific Company based on the company criteria and can also notify them related to placement activities. This application can be a convenient tool for the T&P officer of the college to manage the information of the students concerning the placement process.

## Keywords:

placement portal, resume, college.

## Introduction:

The PIET tpo website aims to replace the mail system of placement updates with a fully online one. The tpo does not need to mail every detail about the company to everyone; instead, he or she can simply upload the details to the portal, and the portal will automatically notify each student through message or mail. Along with that, there will also be two main profiles, one for the tpo and the other for the student. The tpo can upload company information to the portal, a list of shortlisted students to the portal, a list of selected students to the portal, download/print the list of students, and check the status of the student to see if they have been placed. On the other side, there will be a student profile in which student gets notified about the updates of the company, a list of shortlisted students, list of selected students.

The Internet is the most widely used and all systems are being automated. Colleges and universities are also taking advantage of these automated systems. This led to web-based automated training and placement portal developed specifically to manage the placement process. This system is a total management and information system, which provides the newest information about all the students in a particular college and about upcoming job openings. It helps colleges to conquer the difficulty of keeping records of thousands of students by making it automated and searching for a student's eligibility for recruitment criteria. It also helps in the effective and timely utilization of hardware and software resources. It has a user-friendly interface.

## Literature Review:

1. In a study by Swati et al. (2016), an advanced training and place portal idea was introduced to manage the student's data efficiently and automate the selection process and was used to increase placement opportunities for students and this solved the problem of doing manual labor and by doing optimized way to do the basic stuff and improving the current scenario.
2. In a study by Shivangi et al. (2021), a training and placement web portal was introduced which did have a key feature that it had one-time registration and the portal can be used to schedule mock interviews and filter out the students eligible for the job solved the problem of hefty paperwork and unmanaged emails.

3. In a study by Shubhangi et al. (2018), a training and student placement portal with student performance analysis was designed that uses naive bayes classifier to identify the characteristics of the students and it also uses FSS focuses on the identification of factors that contribute to the performance of students in a particular course.
4. In a study by Ram Joshi et al. (2017), a training and placement portal was developed to solve the problem that students were not aware of the current company placements as the current system was to send an email to every new company and that was not managed way and was often used to create confusion for students it was solved by this portal.
5. In a study by Hitesh et al. (2014), a training and placement portal was introduced which was based on a complete modular architecture and was used to help students to know details about the various activities of the TPO cell in arranged way for college students.



## Methodology:

### -----Frontend-----

1. Firstly, we have made a design of the Home page and displayed the image of the Poornima logo.
2. Next, we have to design a login for the admin process and then next to design the registration of students or signup to students, and then next to log in the students
3. Next process, we have to call the API from .NET API to Frontend by using jQuery.

### --- Company List ---

1. We have to design the table of company Lists and display the list of hiring companies.
2. The admin side gives the option of creating a new company, editing a company's data, or Deleting the company's data.
3. Students side to give only to display the list of hiring companies and click to register.

### --- Previous Students List ---

1. We have to design the table of students' placed data.
2. From the admin side -- To create the previous students placed to these companies and display the list of students' Names, photos, Mobile numbers, LinkedIn IDs, etc to display.
3. From the student side -- display the previously placed students list and display the mobile number, LinkedIn ID, photos, and Name.
4. The logout option is to give both sides to click the logout button to go outside of the login process.

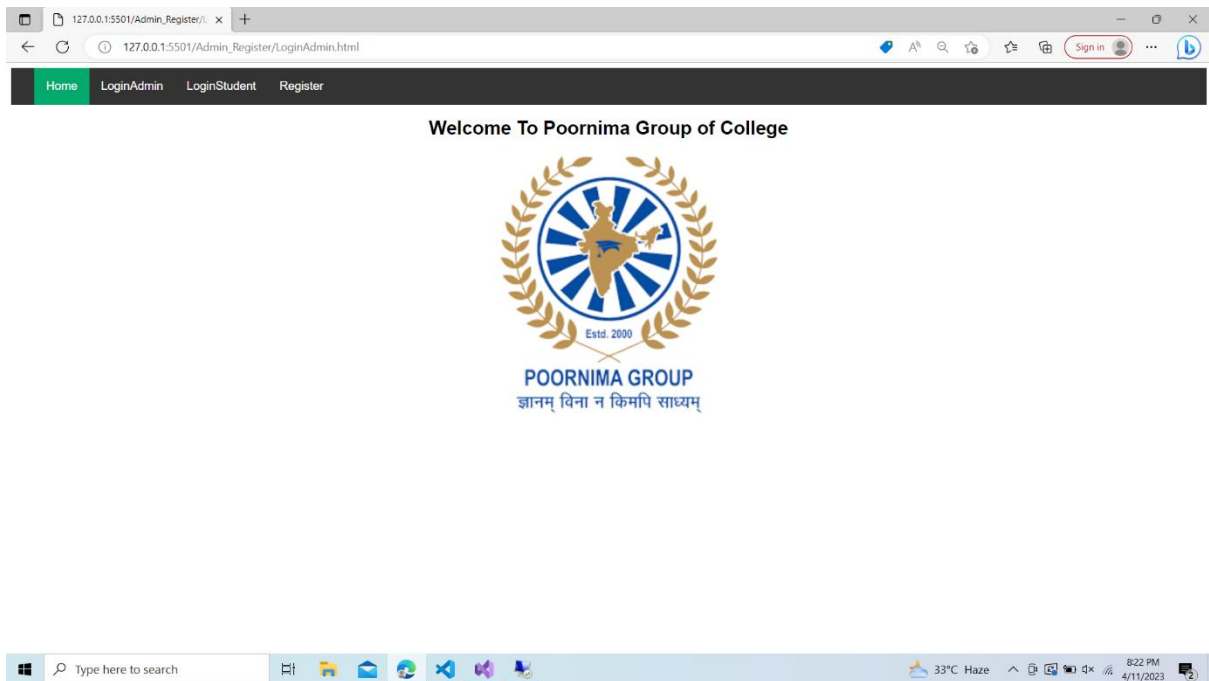


Fig.1- Homepage

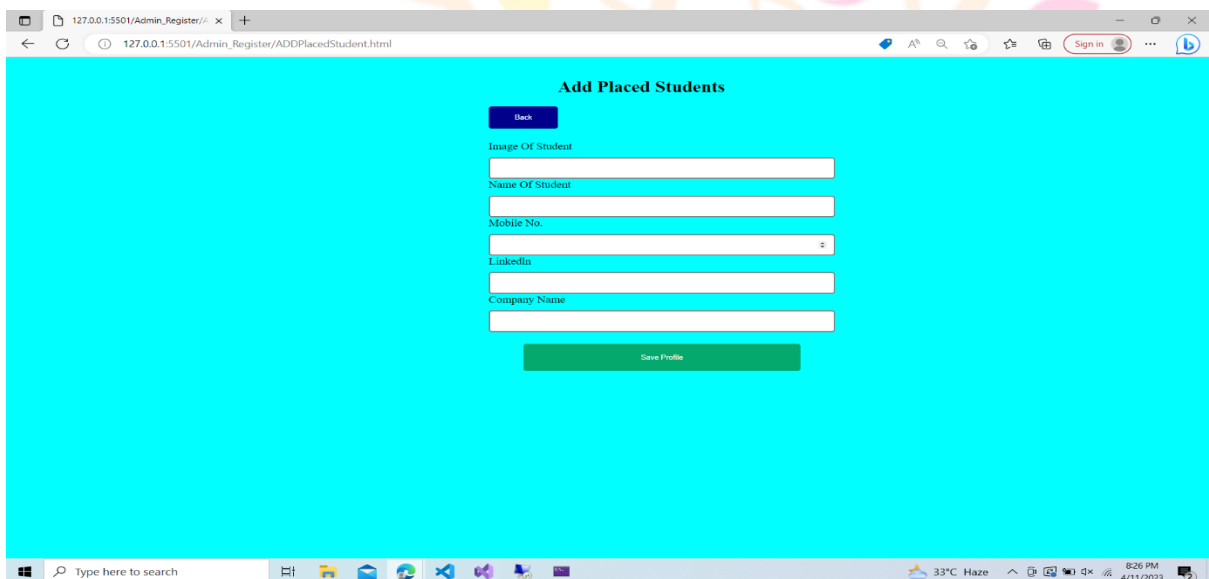


Fig. 2 Page to add student data in DB

**Create New Company**

[Back](#) [ADD Placed Students](#)

Name Of Company

Package

Mode

Location Of Company

Minimum CGPA

Minimum Percentage

BackLog Allowed

Description of Company

[Save](#)

Fig. 3 Page to Add New Company Data

[Logout](#) [Placed Student List](#) [Create New Company](#)

**All Company Lists**

Company Name	Package	Mode	Location	Minimum CGPA	Minimum Percentage	Backlog Allowed	Description
Appcino	5	online	jaipur	7	70	2	This is a best company in jaipur
Clover IT Services	5	Offline	Jaipur	7	70	0	Clover IT Services Pvt. Ltd. is the leading IT brands that has been offering a wide range of business solutions such as Mobile App development, Microsoft CRM, ERP, Custom software development, Testing, Web Development, Designing, Salesforce, HR services, Content Writing Services, SEO services, etc from the past 7 years.
Wipro	3.5	Online	Remote	6.5	65	0	Wipro Limited (formerly, Wipro India Palm Refined Oils Limited) is an Indian multinational corporation that provides information technology, consulting and business process services. Thierry Delaporte is serving as CEO and managing director of Wipro since July 2020.
Accenture	5.5	Online	Bengalore	7	75	1	Accenture plc is an American-Irish multinational digital technology company. A Fortune Global 500 company, it reported revenues of \$43.2 billion in 2019 and had 492,000 employees, serving clients in more than 120 countries. In 2015, the company had about 155,000 employees in India, 48,000 in the US, and 50,000 in the Philippines.

Fig. 4 Company-Related Data for Students

127.0.0.1:5501/Admin\_Register/PlacedStudentList.html

Sign in

LogoutCompany List

Previous Year Students Lists

	Student Name	Mobile No.	LinkedIn Id	Company Name
undefined	Piyush Vijay	9171467301	https://www.linkedin.com/in/piyush-vijay-24192b1a9	Clover IT Services PVT. LTD.

Fig. 5 Page Showing Previously Placed Students

----- Backend -----

1. We have created the APIs in the backend where the admin can perform the CRUD operations and the student can only read the data through API endpoints.
2. We have created a web API in asp.net in which the admin and student can get the data about the company using the http get request. Now for the creation of company data, only the admin is allowed to make an HTTP post request to the API endpoint after creating the post request the asp.net will store the data in the SQL server which is provided by the Entity Framework package. Similarly using the put request from the front end the admin can edit the company data and the data also get updated in the database for deleting company data admin will make an HTTP delete request from the front to the API endpoint and the data will be removed/delete from the database.



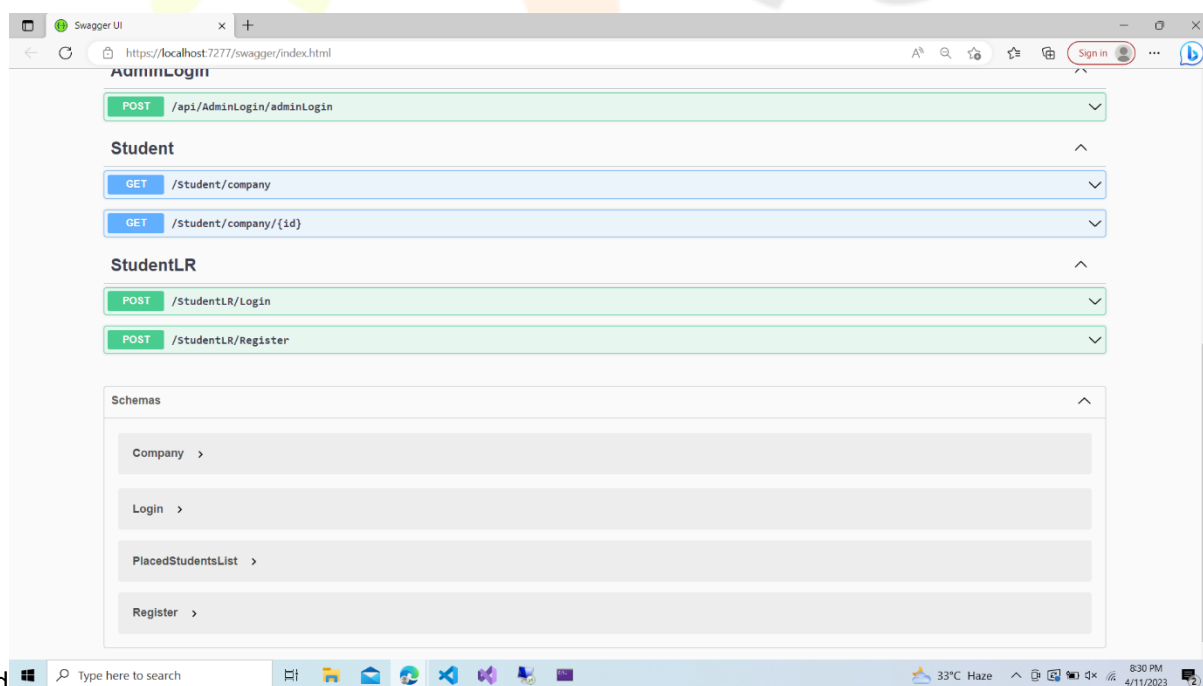
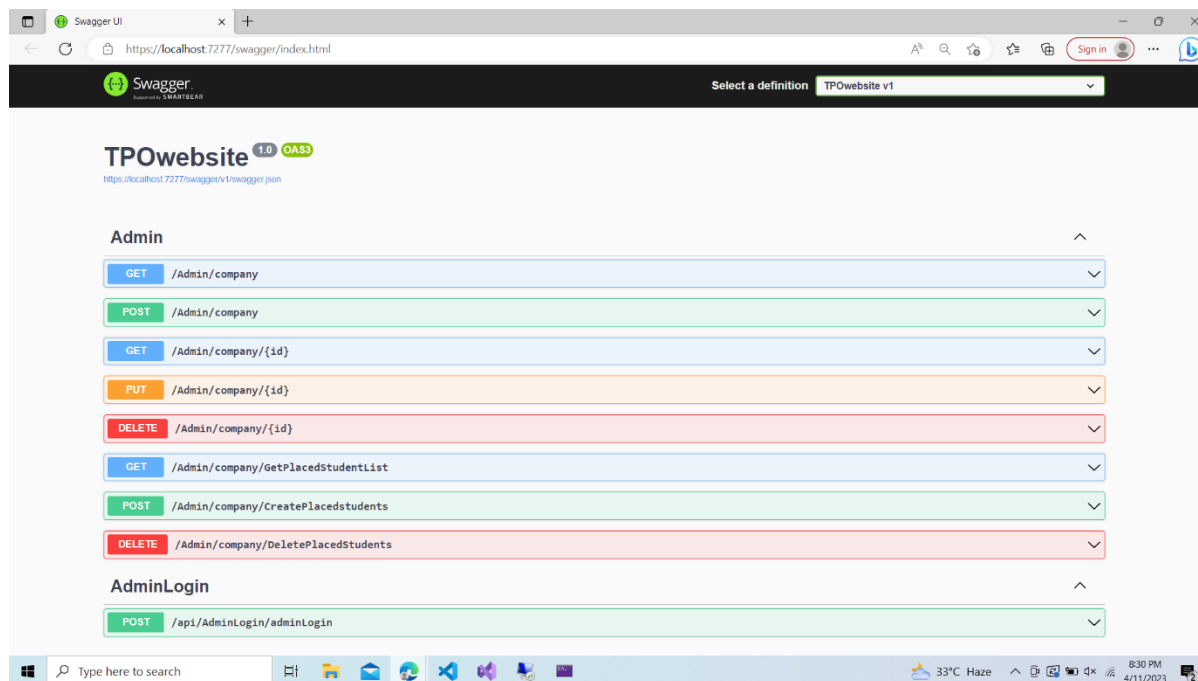


Fig. 6 Backend

Fig. 7 Backend



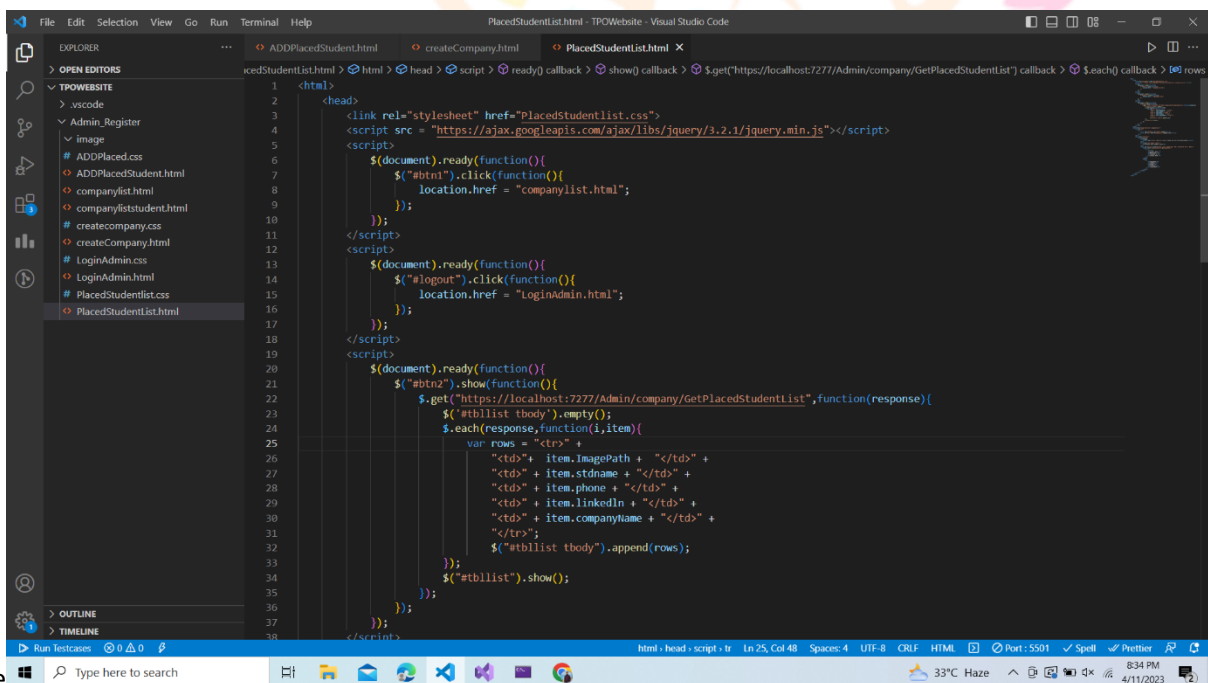
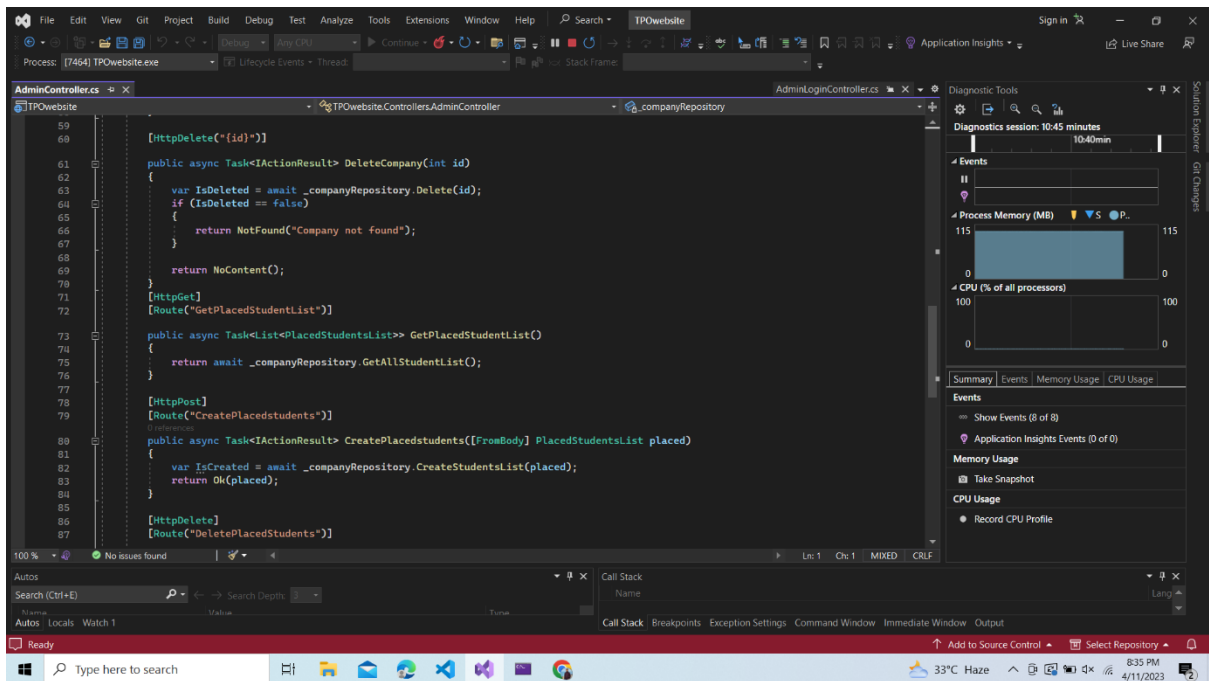


Fig. 8 Code

Fig. 9 Code Cont.

### -----Login & Register-----

We have created another API endpoint for login and register in which only student is allowed to register and the login details for admin will be added manually to the database. For registration, the student will make a post request from the front to the required API endpoint, and his/her data will get into the database then at the time of login, we can check this data from the database. So for login both admin and student will make an HTTP post request to the required endpoint

and after making the post request the data will be checked in the database through the backend server and if any matches are found it will successfully login the user or else it will return user not found with 404 status code.

Fig. 10 Login Page

#### ---- Tables information

So at the backend side, we have 4 tables in the database: -

1. Company table:- stores the data about the company like company name, location, package, etc.
2. Student table:- stores the information about the student like college email, name, registration number, etc.
3. Login table:- store the login details like email, password, and role.
4. Registration table:- store the information about registered students.

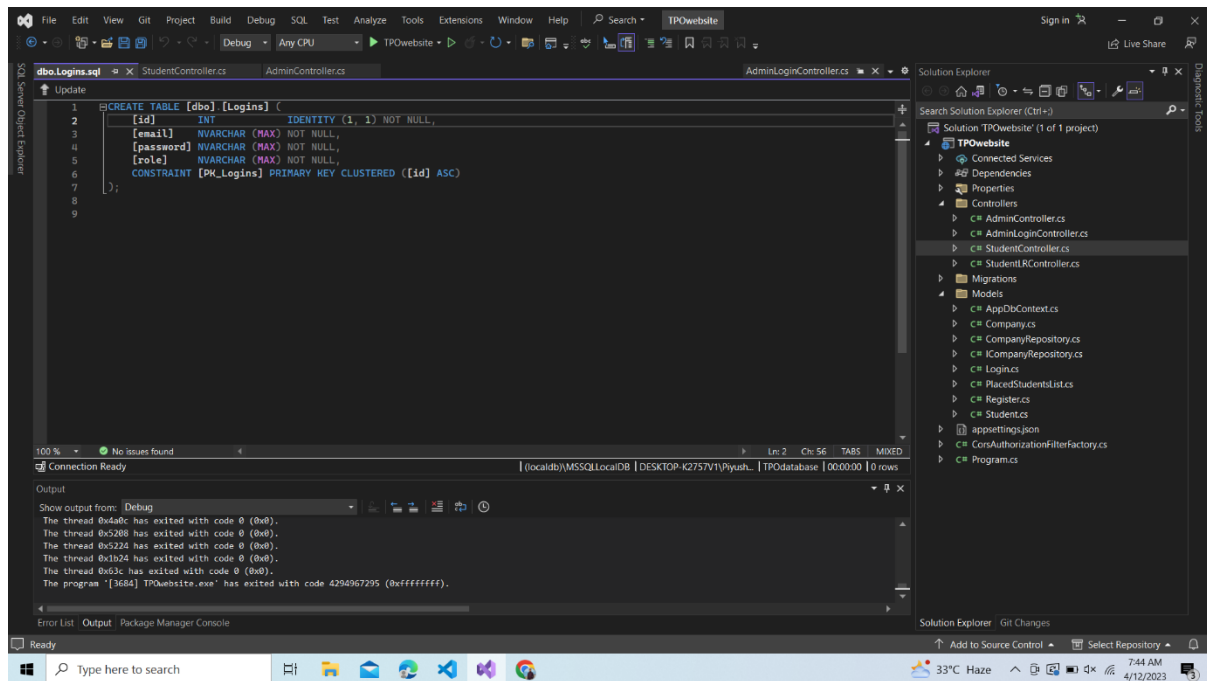


Fig. 11 Login Table Code

## Conclusion and Discussion:

There was little communication and opportunity for alumni students in the current placement system. Additionally, senior students were not providing any advice to current pupils. It automates the suggested system. All users can register using this system, which also offers user activation and deactivation, user customization, online resource provision, user communication, and online feedback. Data can be updated by students. The administrator may view the user's information and validate it appropriately. They can also build a student list based on corporate criteria, provide users access to company details, search, and sort users, and generate reports. Each student will be informed by mail from the administration. Maintaining alumni data is possible. Additionally, this system offers a platform where students and administrators may communicate on placement-related activities. Colleges can use this system as a tool to handle placement-related information about their students. It also helps employers to access student information when they are on campus for recruiting. The firm may learn more about qualified and interested students before visiting the campus. This web portal will handle a variety of administrative duties for students. With enhanced assistance and time-saving features, this web portal benefits the student. The many sorts of reports will be easily accessible and fast, which also lessens the workload for the T&P cell employees.

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