

**Task:** You need to build a small web application that can add, view, update, and delete student details. The app should have a login system, use JWT for user session, and connect the frontend and backend using APIs.

## Imp. Notes

### Backend

- Use .NET (C#) for backend.
- Use MS SQL Server (SSMS) for database.
- Use JWT for login session.
- Use Swagger for automatic API documentation.
- All data should be handled through APIs only (no direct database calls from frontend).

### Frontend

- Use simple HTML, CSS, vanilla JavaScript, AJAX, jQuery, and SweetAlert. You may use any library of your choice, such as Bootstrap, Tailwind, or Material UI.

### Submission Details

- To Submit:
  - Create a new public Git repository named: visual\_softtech\_your\_name\_frontend and visual\_softtech\_your\_name\_backend.
  - Upload the respective code in each and share the links to both repositories.
  - In the backend repository, create a file named sql and include the full database creation script with all tables, views, and functions. Upload it as part of the backend code.

**Advice:** You must submit it within the deadline. Even if everything is not fully implemented, you should still submit it, as the objective is to evaluate your skill set.

## Task Details

### 1. Login Page

- Show a simple login form with Username and Password.
- When login is successful, create a JWT token and allow the user to move to the main page.
- If login fails, show a Sweet Alert with a message like “Invalid Username or Password.”
- If the user is not logged in, they should not be able to open any page (index, create, or edit).

### 2. Index Page

- Show all students in a table with the following columns:

Name	Age	Address	State	Phone Number	Photo	Subjects	Actions
Aarav Sharma	20	123 Park St	Mahara-shtra	+91-9876543210		Math, Physics	<button>Edit</button>
Ananya Iyer	21	456 Lake Rd	Karnataka	+91-8765432109		Biology, Chemistry	<button>Edit</button>
Rohan Verma	22	789 Hill View	Delhi	+91-7654321098		History, Geography	<button>Edit</button>
Priya Singh	19	101 Main St	Tamil Nadu	+91-6543210987		English, Economics	<button>Edit</button>
- Delete Button: Show a Sweet Alert message: “Are you sure you want to delete this record?”. If user clicks “Yes,” delete data from both tables that is., student\_master and student\_detail
- Edit Button: Open the same form as the “Create Page” with all values already filled in.
- Implement pagination.

Student List							
Name	Age	Address	State	Phone Number	Photo	Subjects	Actions
Aarav Sharma	20	123 Park St	Mahara-shtra	+91-9876543210		Math, Physics	<button>Edit</button>
Ananya Iyer	21	456 Lake Rd	Karnataka	+91-8765432109		Biology, Chemistry	<button>Edit</button>
Rohan Verma	22	789 Hill View	Delhi	+91-7654321098		History, Geography	<button>Edit</button>
Priya Singh	19	101 Main St	Tamil Nadu	+91-6543210987		English, Economics	<button>Edit</button>

### 3. Create Page

- A form should include the following fields:
- Clicking Add will create a new row. Clicking Delete will remove that subject row.
- General student data will be saved in the student\_mast table while Subject details will be saved in the student\_detail table.
- User can upload multiple photos.
- Compress file to max 2kb before saving whenever user upload photos.
- To save data in database use sql adapter only.
- State Name will be a dynamic dropdown that is., data saved in state\_name table values will come from.
- Add a “Save State Name” button, on clicking display modal where user can save state name if the list doesn’t show his desired state. On clicking save only the state will be saved and not the student form.

Field	Type	Notes
Name	Text	Required
Age	Int	Required
Date of Birth	date	Required
Address	Text	Not Required
State	Int Dropdown	Required
Phone Number	Text	Must have regex validation
Photo(s)	File upload	Optional
Subjects	Table	User can add or delete rows dynamically

The screenshot shows a 'Create Student' form. It contains fields for Name, Age, Address, State (a dropdown menu), Phone Number, and Photo (file upload). Below these is a 'Subjects' section containing a table with columns for Subject Name and Action (Add, Delete). A red box highlights the entire form area.

### 4. Edit Page

- Same form as Create Page, but with prefilled data.
- When clicking Update, show a small modal that asks for a password. Password = 72991. If the password is correct update the record else show sweet alert: “Wrong Password.”
- Data fetch api will return result in json array only.