**Task-4**

**Dynamic Table with Enhanced Features**

A visually appealing and interactive web application that dynamically generates tables based on data arrays. It allows users to sort data, add new rows, and enjoy an elegant design with modern CSS.

**Features**

* **Dynamic Table Generation**: Automatically generates a table based on the provided array.
* **Sorting**: Clickable headers to sort rows in ascending or descending order.
* **Add New Rows**: A user-friendly form to dynamically add new rows to the table.
* **Stylish Design**:
  + Gradient backgrounds
  + Smooth hover effects
  + Zebra striping for better readability
  + Subtle floating animation for the table
* **Responsive Layout**: Works seamlessly across different screen sizes.

**Technologies Used**

* **HTML**: Structuring the content.
* **CSS**: Styling the application with modern and vibrant designs.
* **JavaScript**: Adding dynamic functionality (table creation, sorting, adding rows).

**Getting Started**

Follow these instructions to set up and run the project on your local machine.

**1. Clone the Repository**

bash

Copy code

git clone https://github.com/your-username/dynamic-table.git

**2. Navigate to the Project Folder**

bash

Copy code

cd dynamic-table

**3. Open the Project**

You can open the project in your favorite code editor, such as **Visual Studio Code**:

bash

Copy code

code .

**4. Run the Project**

1. Open the index.html file in a web browser.
2. Alternatively, use the **Live Server** extension in VS Code for a better development experience.

**Usage**

1. **Initial Table Display**:
   * The page loads a default table generated from a predefined data array.
2. **Sorting**:
   * Click on any column header to sort the rows in ascending/descending order.
3. **Add New Rows**:
   * Fill in the form at the top of the page and click the "Add Row" button.
   * The new row will be added to the table dynamically.

