

Digital Portfolio

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WEBDEVELOPMENT:

- FORM CREATION
- TABLE CREATION

AGENDA:

- 1.Problem Statement
- 2.Project Overview
- 3.End Users
- 4.Tools and Technologies
- 5.Portfolio design and Layout
- 6.Features and Functionality
- 7.Results and Screenshots
- 8.Conclusion
- 9.Github Link

PROBLEM STATEMENT:

- FOR FORM CREATION

Design and develop a **web-based registration form** using **HTML, CSS, and JavaScript** that collects essential user information and provides real-time validation.

- FOR TABLE CREATION

Design and develop a **student record table** using **HTML, CSS, and JavaScript** that displays and organizes student information in a clear and interactive manner.

PROJECT OVERVIEW:

- This project demonstrates the creation of a **Student Admission Portal** using HTML, CSS, and JavaScript.
It consists of two main modules: a **registration form** and a **student records table**.
The **registration form** collects user details such as name, email, phone, gender, course, and address.
Form fields are validated using JavaScript to ensure correct input (e.g., email format, phone number pattern, required fields).
The form is styled with CSS to provide a clean, user-friendly, and responsive design.
The **student records table** displays student information in a structured format with columns for Roll No, Name, Course, Marks, and Grade.
CSS is used to style the table with alternate row colors, hover effects, and responsiveness.
JavaScript adds interactivity by enabling **column sorting** and a **search feature** to filter records.
This makes it easy to organize, find, and manage student details.
The project highlights **frontend web development skills** including layout design, styling, and client-side scripting.

WHO ARE THE END USERS?

❖ **Students / Applicants**

- They use the **registration form** to enter their personal and academic details for admission.
- They interact with the form fields, validations, and submit their information.

❖ **College / University Administration**

- They use the **student records table** to view, sort, and search student data.
- Helps in managing admission records efficiently.

❖ **Teachers / Staff**

- They can check student details, marks, and grades from the table.
- Useful for maintaining departmental records.

❖ **System Developers / Designers** (secondary end users)

- They test and enhance the form and table functionalities.
- Use the project as a learning/demo tool for frontend web development.

TOOLS AND TECHNIQUES

TOOLS

◆ TOOLS USED:

HTML5 – FOR CREATING THE STRUCTURE OF THE FORM AND TABLE.

CSS3 – FOR STYLING (COLORS, FONTS, BORDERS, HOVER EFFECTS, RESPONSIVENESS).

JAVASCRIPT – FOR ADDING VALIDATION TO THE FORM, SORTING, AND SEARCHING IN THE TABLE.

TEXT EDITOR / IDE – E.G., VISUAL STUDIO CODE, SUBLIME TEXT, OR NOTEPAD++.

WEB BROWSER – E.G., GOOGLE CHROME / MOZILLA FIREFOX FOR TESTING AND EXECUTION.

TECHNIQUES

◆ TECHNIQUES APPLIED:

1. Form Creation Techniques

- Input fields (text, email, tel, date, radio, checkbox, file upload).
- Validation using HTML attributes (required, pattern, minlength) and JavaScript.
- CSS styling for user-friendly interface.

2. Table Creation Techniques

- Table structure with <table>, <thead>, <tbody>, <tr>, <td>.
- CSS styling: borders, row striping, hover highlighting, responsive design.

POTFOLIO DESIGN AND LAYOUT

- **Cover Page** – Project Title, Your Name/Roll No, College/Dept, Year.
- **Index** – List of sections with page numbers.
- **Introduction** – Brief on forms & tables in web development.
- **Problem Statement & Objectives** – Why the project is needed and its goals.
- **Tools & Techniques** – HTML, CSS, JavaScript, Browser, Editor.
- **System Design** – Layout diagrams/wireframes of form and table.
- **Implementation** – Code snippets + screenshots of output.
- **Results** – Successful form validation & interactive table.
- **Conclusion** – Key learnings & outcomes.
- **Future Scope** – Database integration, login, export features.
- **References** – Books, websites, or tutorials used.

FEATURES AND FUNCTIONALITY

◆ Form Creation

- **User-friendly form** with labeled fields (Name, Email, Phone, DOB, etc.).
- **Validation** using HTML5 and JavaScript (required fields, email format, number limits).

◆ Table Creation

Structured data display using rows and columns.

Styled layout with CSS (borders, alternating row colors, hover effects).

Dynamic update (new entries can be added from form into table).

RESULT AND OUTPUT

Student Registration Form

Full Name
xxxx

Email
yyyyy

Phone Number
9158796241

Date of Birth
dd-mm-yyyy

Gender
☐ Male ☐ Female ☐ Other

Course
B.Sc

Address
Enter your address

Register

ROLL NO	NAME	COURSE	MARKS	GRADE
101	Rahul	BCA	87	A
102	Priya	BSc CS	92	A+
103	Arjun	B.Com	75	B+
104	Kavya	BA	68	B
105	Deepak	B.Tech	95	A+

CONCLUSION

The **Form and Table Creation project** demonstrates the effective use of **HTML, CSS, and JavaScript** in building interactive and user-friendly web applications. The **form** allows structured data collection from users with validation for accuracy, while the **table** provides an organized and readable display of the collected information. Styling with CSS enhances the visual appeal, and JavaScript adds interactivity such as validation, sorting, or dynamic updates.

This project highlights how basic web technologies can be combined to create simple yet powerful tools for **data entry and management**, which can be further extended for real-world applications like student registration systems, employee records, or online surveys.