Digital Portfolio

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DEPARTMENT: B.SC.COMPUTERSCIENCE

COLLEGE: COLLEGE/ UNIVERSITY: IMMACULATE COLLEGE FOR WOMEN
ANNAMALAI UNIVERSITY

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.GithubLink

PROBLEM STATEMENT:

- FOR FORM CREATION

Design and develop a web-based registration formusing HTML, CSS, and JavaScriptthat collects essential user information and provides real-time validation.

- FOR TABLE CREATION

Design and develop a student record tableusing HTML, CSS, and JavaScriptthat displays and organizes student information in a clear and interactive manner.

PROJECT OVERVIEW:

- Thisproject demonstratesthecreation of a Student Admission Portal using HTML, CSS, and JavaScript.
  It consists of two main modules: a registration formand 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.,

  emailformat, phonenumberpattern,requiredfields).

  The form is styled with CSS to provide a clean, user-friendly, and responsive design.
  CSSisused to stylethetablewithalternaterowcolors,hovereffects, and responsiveness.
  The student records table displays student information in a structured format with columns for Roll No, Name, Course, Marks, and Grade.
  JavaScript adds interactivity by enabling column sortingand a search

  featureto filterrecords.

  This makes it easy to organize, find, and manage student details.
  The project highlights frontend web development skillsincluding

  layoutdesign, styling,andclient-sidescripting.

WHO ARE THE END USERS?

 Students/ Applicants

•They usethe **registration form**to enter their personal and academic details for admission.

•They interact withthe 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 theproject 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.FormCreation 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**–Listofsectionswith pagenumbers.
- **Introduction**–Brief on forms & tables in web development.
- **ProblemStatement&Objectives**–Whytheprojectisneededandits goals.
- **Tools & Techniques**–HTML, CSS, JavaScript, Browser, Editor.
- **System Design**–Layout diagrams/wireframes of form and table.
- **Implementation**–Code snippets+screenshotsofoutput.
- **Results**–Successful form validation & interactive table.
- **Conclusion**–Keylearnings& outcomes.
- **Future Scope**–Database integration, login, export features.
- **References**–Books,websites, ortutorialsused.

FEATURES AND FUNCTIONALITY

- Form Creation

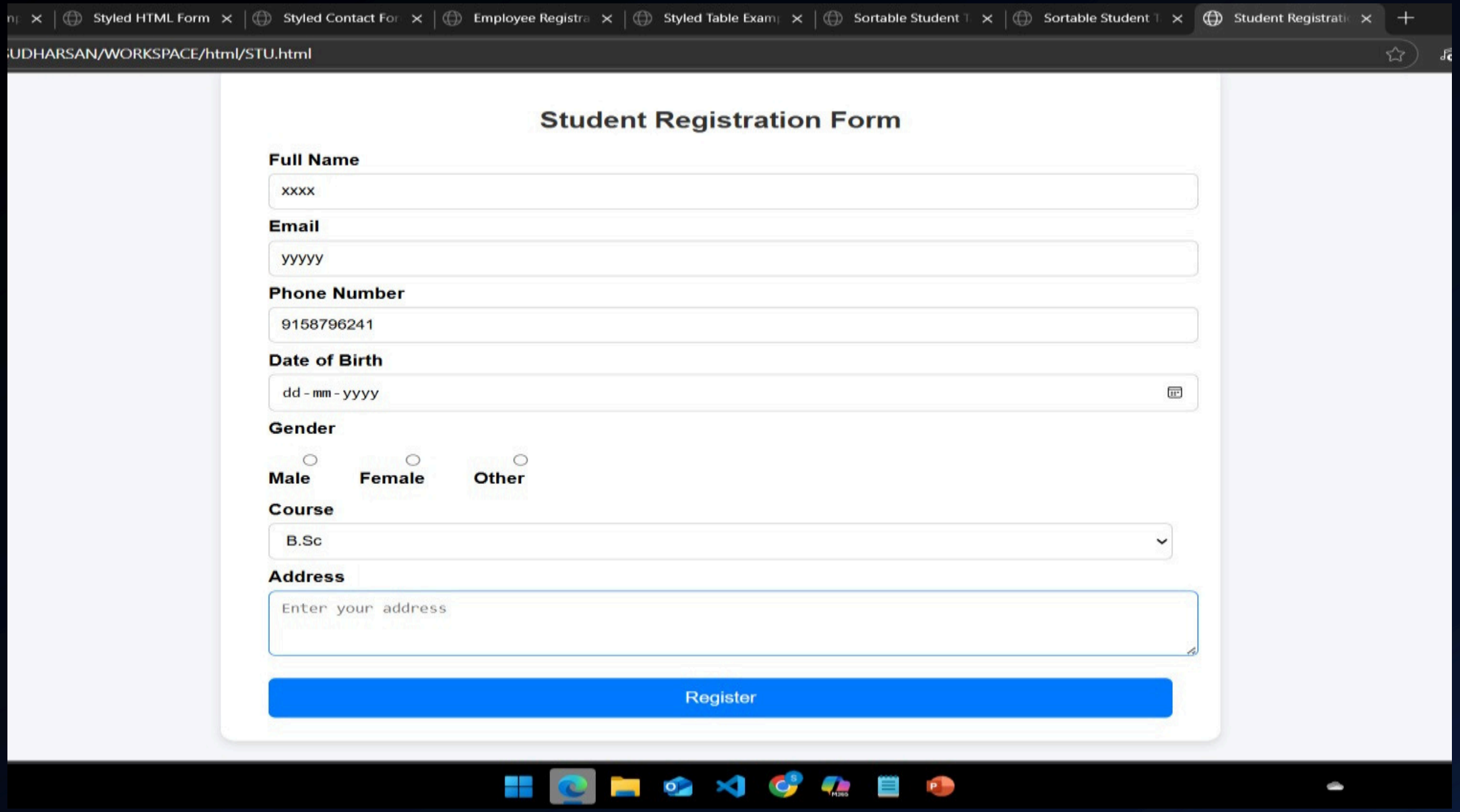
•User-friendlyformwithlabeledfields(Name, Email, Phone, DOB, etc.).
•Validationusing HTML5 and JavaScript

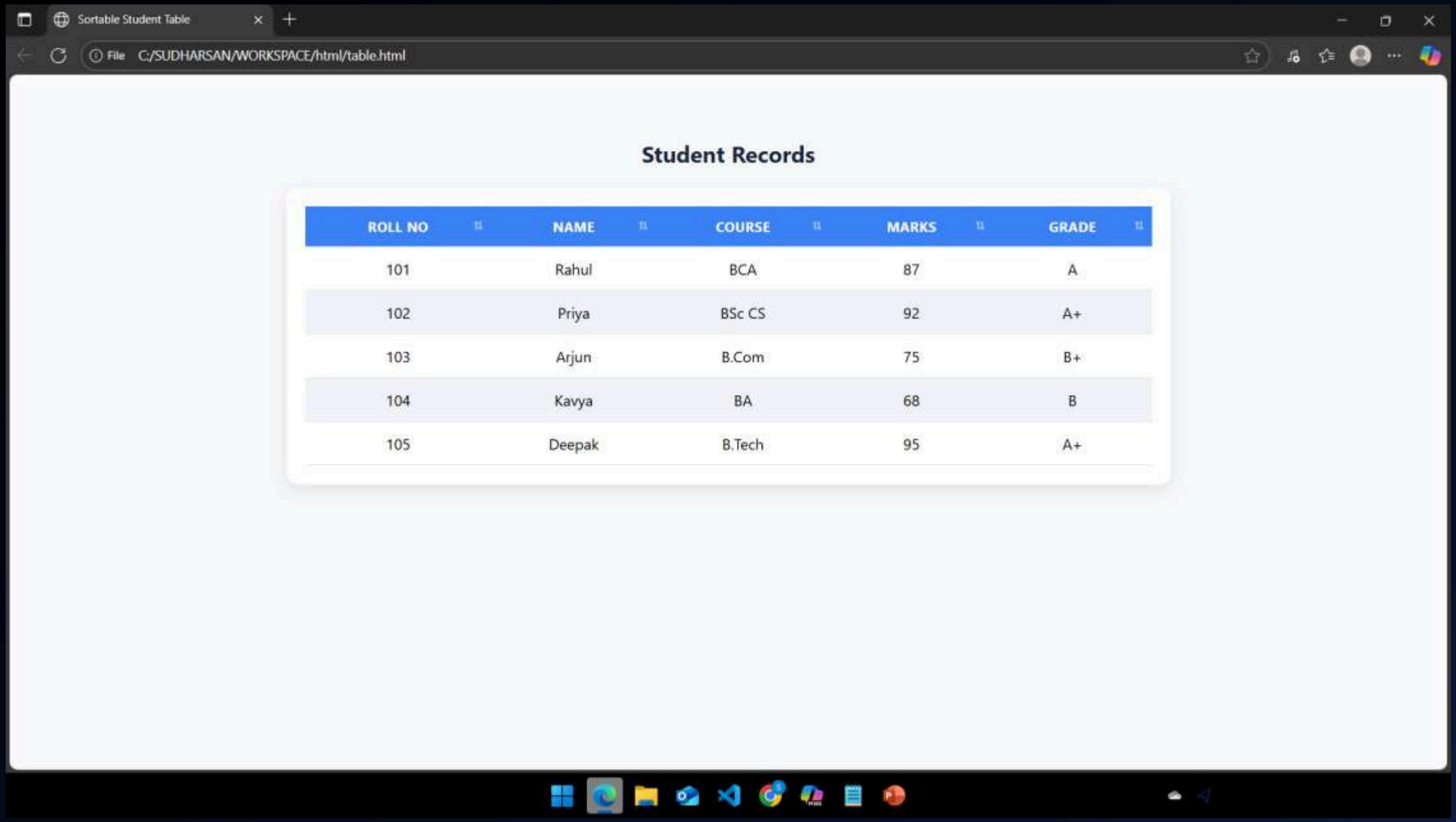
(required fields, email format, number limits).

- Table Creation

Structured data display using rows and columns.
StyledlayoutwithCSS(borders,alternating row colors, hover effects).
Dynamicupdate(newentriescanbeadded from form into table).

RESULT AND OUTPUT




Sortable Student Table
File C:/SUDHARSAN/WORKSPACE/html/table.html
Student Records
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

TheForm and TableCreation projectdemonstrates the effectiveuseofHTML, CSS,and JavaScriptin building interactive and user-friendly web applications. The form allowsstructureddata collection from users with validation for accuracy, while the tableprovides 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.