

:

WEEK3

1. Project Overview and Objectives

The Interactive Portfolio Website is designed to showcase the skills, projects, and contact information of the developer in a visually appealing and interactive way. The project demonstrates proficiency in **HTML, CSS, and JavaScript**, with added features like dark mode, skill animations, form validation, and a to-do list.

Objectives:

- Create a modern, responsive, and interactive portfolio.
 - Showcase technical skills (HTML, CSS, JavaScript).
 - Implement dynamic elements to enhance user experience.
 - Provide easy access to contact information and resume download.
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2. Setup and Installation Instructions

Requirements:

- A web browser (Chrome, Firefox, Edge, etc.)
- Text editor or IDE (VS Code recommended)

Steps to run the project:

1. Download or clone the project repository from GitHub.
2. Ensure the folder structure is maintained:

project-folder/

├─ index.html

├─ style.css

├─ script.js

├─ images/profile.jpg,project1.jpg,project2.jpg,project3.jpg

└─ resume.pdf

├─ screenshots/

- HomePage,

- AboutSection,
- SkillsSection,
- ImageGallery,
- ToDoList,
- ContactSection
- DarkMode

3. Open index.html in your browser.

4. The website will display all sections (About, Skills, Contact) with full functionality.

Optional:

- Use a local server in VS Code (Live Server extension) to view changes live.
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3. Code Structure Explanation

HTML (index.html):

- **Header:** Displays name, typing effect, navigation links, and dark mode toggle.
- **About Section:** Includes profile image, introduction, and resume download button.
- **Skills Section:** Displays skills with animated progress bars and tooltips.
- **Contact Section:** Form for user messages and a card with contact information.
- **Footer:** Copyright information.

CSS (style.css):

- **Reset & base styling:** Ensures consistent layout across browsers.
- **Layout & alignment:** Flexbox and responsive design for all sections.
- **Animations & Interactivity:** Hover effects, skill progress animations, smooth scrolling.
- **Dark Mode:** Toggle switch changes website theme using .dark-mode class.

JavaScript (script.js):

- **Typing Effect:** Dynamically types "Beginner Web Developer | HTML | CSS | JavaScript" in header.
- **Dark Mode Toggle:** Saves preference in localStorage to persist user choice.

- **Skill Animation & Tooltip:** Animates progress bars on scroll and shows skill descriptions on hover.
 - **Contact Form Validation:** Checks for empty fields, valid email, and minimum message length before submitting.
 - **To-Do List (Optional Feature):** Allows adding, completing, and removing tasks with localStorage support.
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4. JavaScript Features Implemented

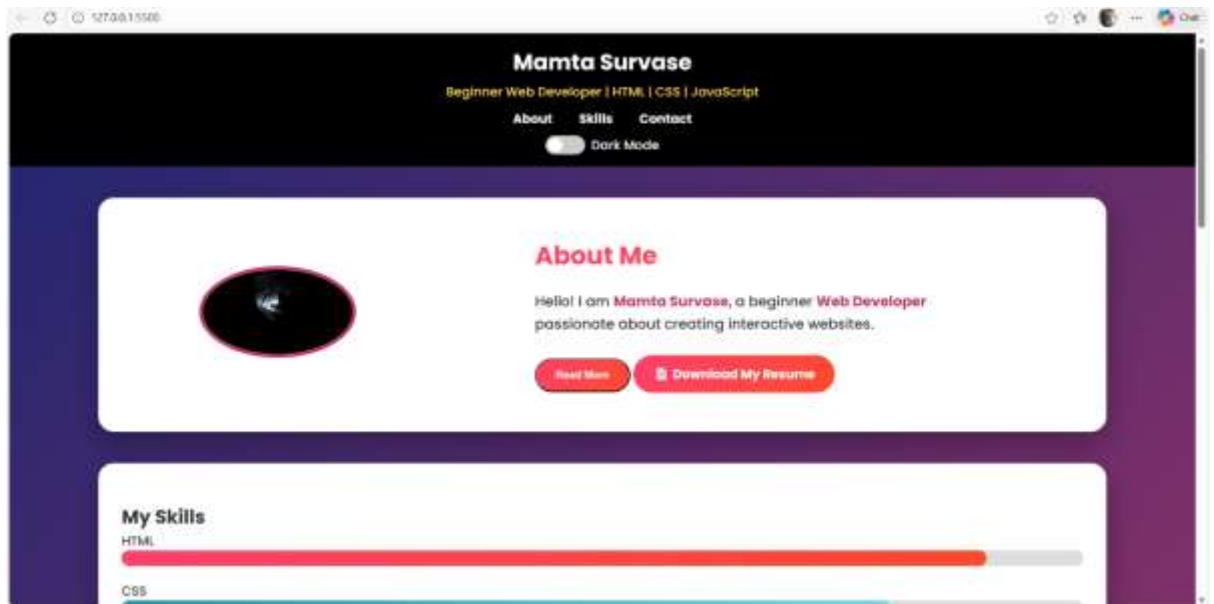
1. **Typing Animation:** Creates a dynamic header text that simulates typing.
 2. **Dark Mode Toggle:** Switches between light and dark themes and remembers preference using localStorage.
 3. **Skill Animation:** Animates skill bars on scroll to show proficiency levels.
 4. **Skill Tooltip:** Displays small description when hovering over each skill.
 5. **Contact Form Validation:**
 - Ensures all fields are filled.
 - Checks for a valid email address format.
 - Enforces minimum message length (10 characters).
 - Displays success or error messages dynamically.
 6. **Interactive To-Do List (Optional):**
 - Add, delete, mark tasks complete.
 - Stores tasks in localStorage to persist data.
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5. Interactive Elements

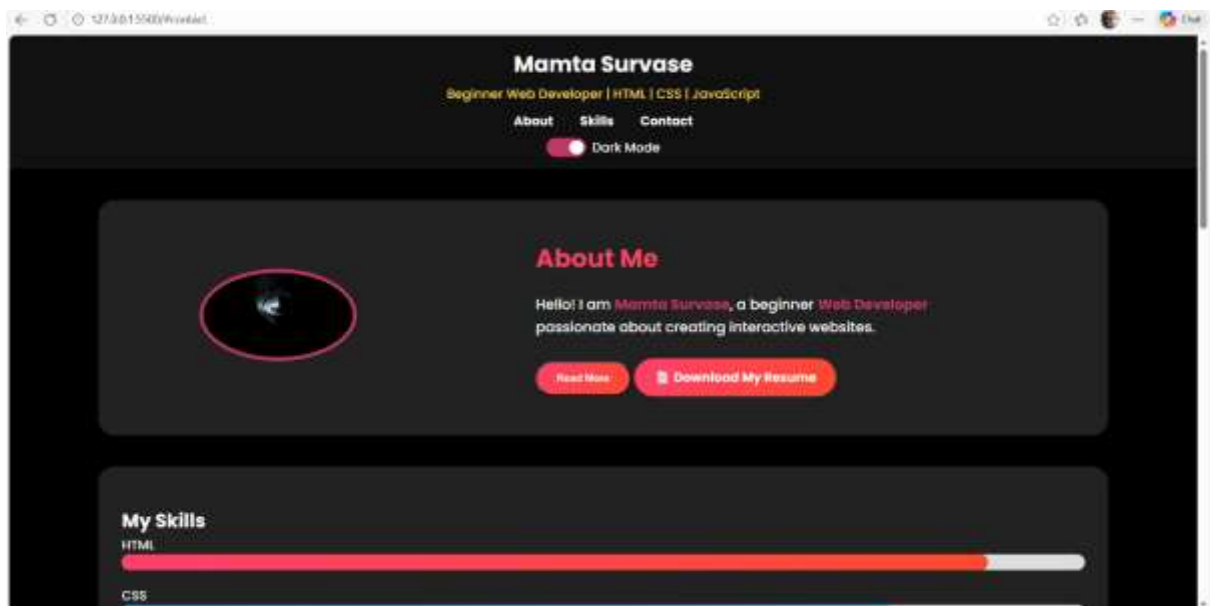
- **Navigation Links:** Smooth scrolling to About, Skills, and Contact sections.
- **Hover Animations:** Sections, buttons, images scale and highlight on hover.
- **Resume Button:** Downloadable resume in PDF format.
- **Skill Bars & Tooltips:** Progress bars animate and show descriptions dynamically.
- **Dark Mode Switch:** Interactive toggle changes website theme.
- **To-Do List:** Full interactivity with add/remove/complete functionality.

7. Screenshots

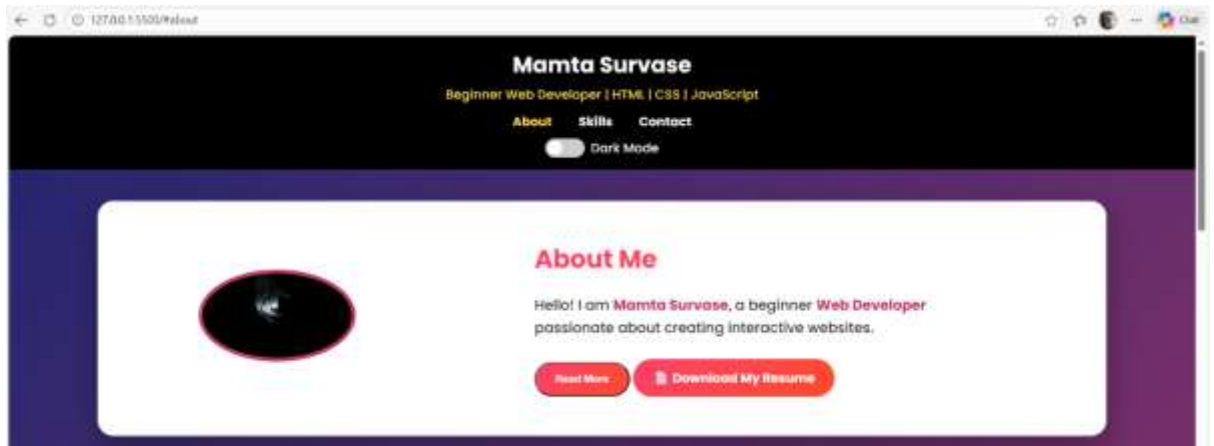
HomePage



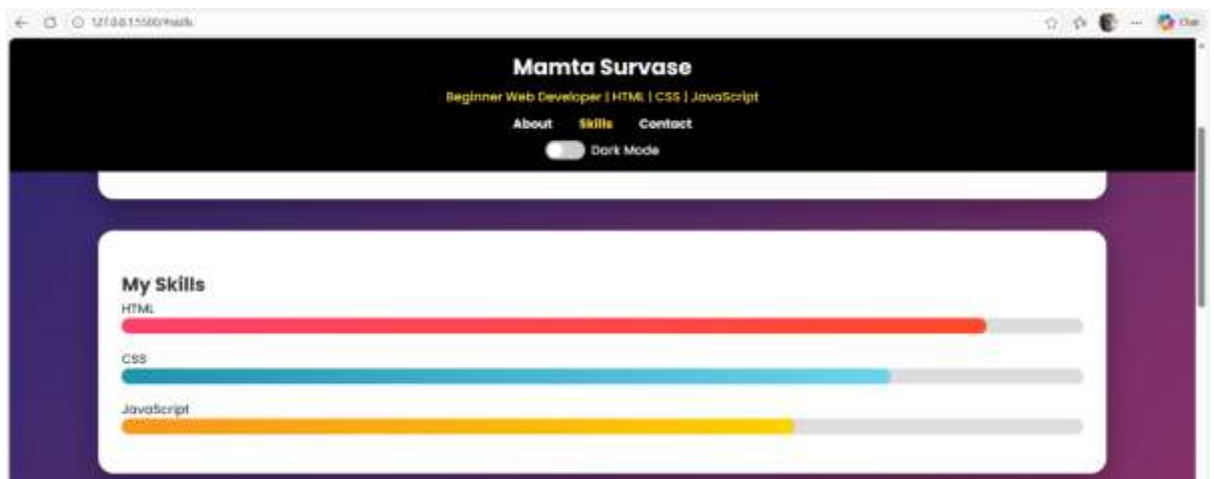
DarkMode



AboutSection



SkillsSection



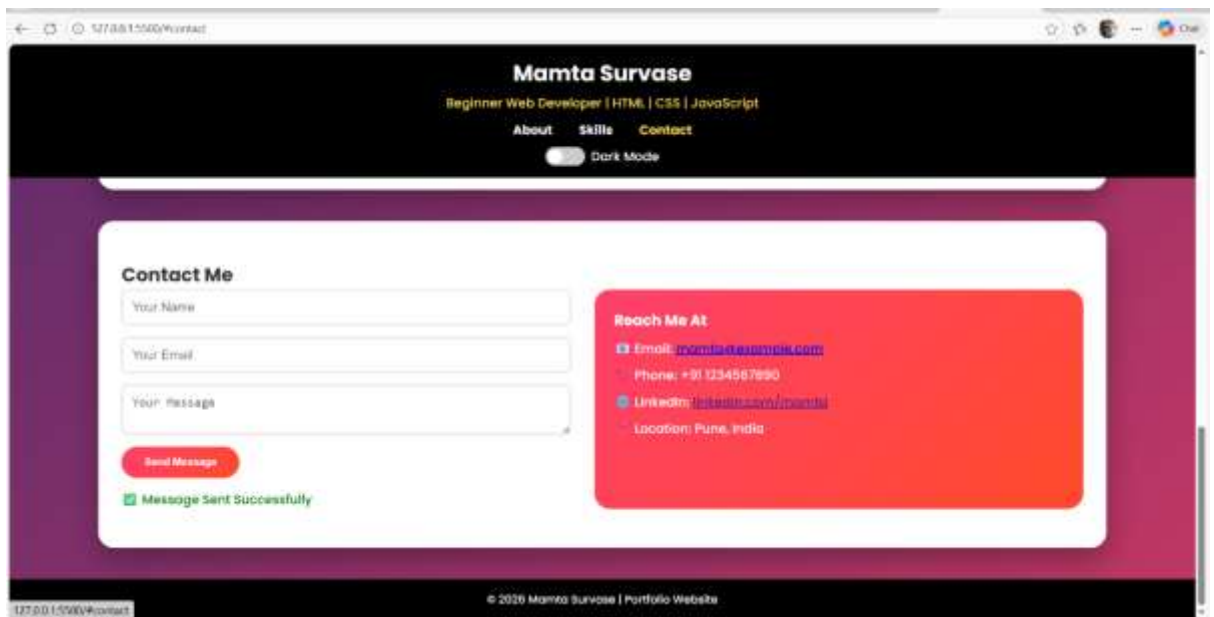
ImageGallery



ToDoList



ContactSection



7. Technical Requirements Met

- External CSS and JavaScript files linked properly.
- Responsive design using Flexbox and media queries.
- JavaScript features implemented: typing effect, dark mode, skill animation, tooltip, form validation, and to-do list.
- Interactive elements enhance user experience.
- LocalStorage implemented for dark mode and to-do list persistence.
- Smooth scrolling and hover animations included.

Conclusion:

This project demonstrates a beginner web developer's understanding of **HTML, CSS, and JavaScript**. Interactive features make the website dynamic, and the design ensures a professional and attractive presentation of skills and contact information.