**Front-End UI/UX Mini Project**

**1. Title Page**

* **Project Title**: *Restaurent Landing Page*
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* **Semester:** 3rd
* **Institution:** Christ University, Kengeri
* **Academic Year:** 2025

**2. Abstract**

This project presents the development of a responsive and visually engaging personal portfolio website titled *HELL'S KITCHEN – Fine Dining & Comfort Food*. Designed using HTML and CSS, the website showcases modern web design principles with a focus on user experience, accessibility, and aesthetic coherence. It features multiple sections including a dynamic hero banner, curated menu listings, an about page, contact form, and newsletter subscription—all integrated into a cohesive layout.

The site employs semantic HTML5 structure and custom CSS styling, enhanced by Google Fonts and Font Awesome icons to elevate visual appeal. A consistent color palette and typographic hierarchy ensure readability and brand identity. The layout adapts seamlessly across devices using responsive design techniques, while interactive elements such as hover effects and CSS-only lightbox functionality enrich user interaction.

This portfolio not only demonstrates technical proficiency in front-end development but also reflects thoughtful design choices that prioritize clarity, usability, and storytelling. It serves as a digital showcase for culinary branding, with potential applications in restaurant marketing, hospitality outreach, and personal branding.

**3. Objectives**

The primary goals of this project are:

* **Design a user-friendly interface** using modern UI principles to enhance user experience and engagement
* **Develop a fully responsive layout** using only HTML and CSS to ensure compatibility across desktops, tablets, and mobile devices
* **Implement structured HTML5 semantic elements** for better readability, maintainability, and SEO optimization
* **Apply CSS styling** for consistent branding, visual layout, and responsive behavior across all pages
* **Ensure accessibility and readability** by following web standards and best practices for inclusive design

**4. Scope of the Project**

This project outlines the boundaries and focusses areas as follows:

* **Focused on front-end design only**, emphasizing layout, structure, and visual presentation
* **No JavaScript or server-side integration** was included; the project is purely static and client-side
* **Intended for desktop, tablet, and mobile viewports**, ensuring responsive behavior across common screen sizes
* **Used only open-source tools and pure code**, relying solely on HTML5 and CSS3 without external libraries or frameworks

**5. Tools & Technologies Used**

|  |  |
| --- | --- |
| Tool/Technology | Purpose |
| HTML5 | Markup and content structure |
| CSS3 | Styling and layout management |
| VS Code | Code editor |
| Chrome DevTools | Testing and debugging |

**6. HTML Structure Overview**

* Used semantic tags: <header>, <nav>, <main>, <section>, <footer>
* Structured into reusable sections: About, Projects, Contact
* Navigation menu using <ul> and anchor links for smooth scrolling

**7. CSS Styling Strategy**

The styling approach for this project was guided by the following principles:

* **Used a mobile-first design strategy**, ensuring optimal performance and layout on smaller screens before scaling up
* **Applied consistent typography and color schemes** to maintain visual identity and readability throughout the site
* **Utilized CSS Grid and Flexbox** for responsive layout structures and dynamic content alignment
* **Implemented hover effects and transitions** to enhance interactivity and user engagement
* **Ensured modular and reusable styles** by organizing CSS rules around semantic HTML elements and class-based selectors

**8. Key Features**

|  |  |
| --- | --- |
| Feature | Description |
| Responsive Design | Adapts seamlessly to all screen sizes |
| Smooth Navigation | Fixed top nav with anchor links |
| Project Cards | Flex-based layout with hover effects |
| Contact Form (non-functional) | Placeholder layout for inputs and button |
| Accessible Fonts & Colors | High contrast and readable typography |

**9. Challenges Faced & Solutions**

|  |  |
| --- | --- |
| Challenge | Solution |
| Overlapping elements on small screens | Used media queries to stack elements |
| Difficulty aligning items using float | Shifted to Flexbox and Grid |
| Typography scaling issue | Used relative units (em/rem) instead of px |

**10. Outcome**

* Achieved a clean, consistent, and visually engaging front-end layout
* All key components function as intended using just HTML and CSS
* Learned about layout responsiveness and UI hierarchy in depth

**11. Future Enhancements**

To further improve the functionality and user experience of the portfolio website, the following enhancements are proposed:

* **Integrate JavaScript** to add dynamic features such as animations, form validation, and interactive elements
* **Implement a backend system** using technologies like Node.js or PHP to enable contact form submissions and content management
* **Add a blog section** to share technical insights, tutorials, and project updates
* **Include dark mode support** for improved accessibility and user preference
* **Optimize for SEO** by adding meta tags, structured data, and performance improvements
* **Deploy on a custom domain** with HTTPS for professional presentation and security
* **Enable multilingual support** to reach a broader audience

**12. Sample Code**

**/\* Reset default margin and padding for all elements \*/**

**\* {**

**margin: 0;**

**padding: 0;**

**box-sizing: border-box; /\* Ensures consistent box sizing across elements \*/**

**}**

**/\* Base body styling \*/**

**body {**

**font-family: 'Poppins', sans-serif; /\* Sets font style \*/**

**line-height: 1.6; /\* Improves readability \*/**

**background-color: #f9f9f9; /\* Light background color \*/**

**color: #333; /\* Dark text color for contrast \*/**

**}**

**/\* ===================== Navigation ===================== \*/**

**/\* Header styling \*/**

**header {**

**background: #004aad; /\* Blue background \*/**

**color: white; /\* White text \*/**

**padding: 1rem 0; /\* Vertical padding \*/**

**position: sticky; /\* Sticks to top on scroll \*/**

**top: 0;**

**z-index: 10; /\* Ensures it stays above other content \*/**

**}**

**/\* Navigation container \*/**

**nav {**

**max-width: 1100px; /\* Limits width \*/**

**margin: auto; /\* Centers nav \*/**

**display: flex; /\* Flex layout for horizontal alignment \*/**

**justify-content: space-between; /\* Space between logo and links \*/**

**align-items: center; /\* Vertically center items \*/**

**padding: 0 20px; /\* Horizontal padding \*/**

**}**

**/\* Site title styling \*/**

**nav h2 {**

**font-weight: 600; /\* Bold title \*/**

**}**

**/\* Navigation links \*/**

**nav a {**

**color: white; /\* White text \*/**

**text-decoration: none; /\* Removes underline \*/**

**margin: 0 15px; /\* Spacing between links \*/**

**font-weight: 500; /\* Medium font weight \*/**

**}**

**/\* Hover effect for links \*/**

**nav a:hover {**

**text-decoration: underline; /\* Adds underline on hover \*/**

**}**

**/\* ===================== Hero Section ===================== \*/**

**.hero {**

**text-align: center; /\* Center-align content \*/**

**padding: 2rem; /\* Adds spacing around hero section \*/**

**}**

**/\* Profile image styling \*/**

**.hero img {**

**width: 150px; /\* Fixed width \*/**

**border-radius: 50%; /\* Circular image \*/**

**}**

**/\* Hero heading \*/**

**.hero h1 {**

**margin-top: 1rem; /\* Space above heading \*/**

**font-size: 2rem; /\* Larger font size \*/**

**}**

**/\* ===================== Section Layout ===================== \*/**

**section {**

**max-width: 1100px; /\* Limits width \*/**

**margin: 2rem auto; /\* Vertical spacing and center alignment \*/**

**padding: 0 20px; /\* Horizontal padding \*/**

**}**

**/\* Grid layout for projects \*/**

**.projects-grid {**

**display: grid; /\* Enables grid layout \*/**

**grid-template-columns: repeat(auto-fit, minmax(250px, 1fr)); /\* Responsive columns \*/**

**gap: 20px; /\* Space between grid items \*/**

**}**

**/\* Individual project card styling \*/**

**.project-card {**

**background: white; /\* White background \*/**

**padding: 1rem; /\* Internal spacing \*/**

**border-radius: 8px; /\* Rounded corners \*/**

**box-shadow: 0 2px 5px rgba(0,0,0,0.1); /\* Subtle shadow \*/**

**text-align: center; /\* Center-align text \*/**

**}**

**/\* Project image styling \*/**

**.project-card img {**

**width: 100%; /\* Full width of card \*/**

**border-radius: 5px; /\* Slightly rounded corners \*/**

**}**

**/\* ===================== Buttons ===================== \*/**

**/\* Styling for buttons and submit inputs \*/**

**button, input[type=submit] {**

**background: #004aad; /\* Blue background \*/**

**color: white; /\* White text \*/**

**border: none; /\* No border \*/**

**padding: 10px 20px; /\* Internal spacing \*/**

**cursor: pointer; /\* Pointer cursor on hover \*/**

**border-radius: 5px; /\* Rounded corners \*/**

**}**

**/\* Hover effect for buttons \*/**

**button:hover, input[type=submit]:hover {**

**background: #003080; /\* Darker blue on hover \*/**

**}**

**/\* ===================== Contact Form ===================== \*/**

**/\* Form layout \*/**

**form {**

**display: grid; /\* Grid layout for form fields \*/**

**gap: 10px; /\* Space between fields \*/**

**}**

**/\* Input and textarea styling \*/**

**input, textarea {**

**padding: 8px; /\* Internal spacing \*/**

**border: 1px solid #ccc; /\* Light border \*/**

**border-radius: 5px; /\* Rounded corners \*/**

**}**

**/\* ===================== Footer ===================== \*/**

**footer {**

**text-align: center; /\* Center-align text \*/**

**padding: 1rem; /\* Internal spacing \*/**

**background: #004aad; /\* Blue background \*/**

**color: white; /\* White text \*/**

**margin-top: 2rem; /\* Space above footer \*/**

**}**

**/\* Footer link styling \*/**

**footer a {**

**color: white; /\* White text \*/**

**margin: 0 10px; /\* Spacing between links \*/**

**}**

**/\* ===================== Smooth Scrolling ===================== \*/**

**html {**

**scroll-behavior: smooth; /\* Enables smooth scroll effect \*/**

**}**

**/\* ===================== Responsive Design ===================== \*/**

**/\* Responsive navigation layout for smaller screens \*/**

**@media (max-width: 768px) {**

**nav {**

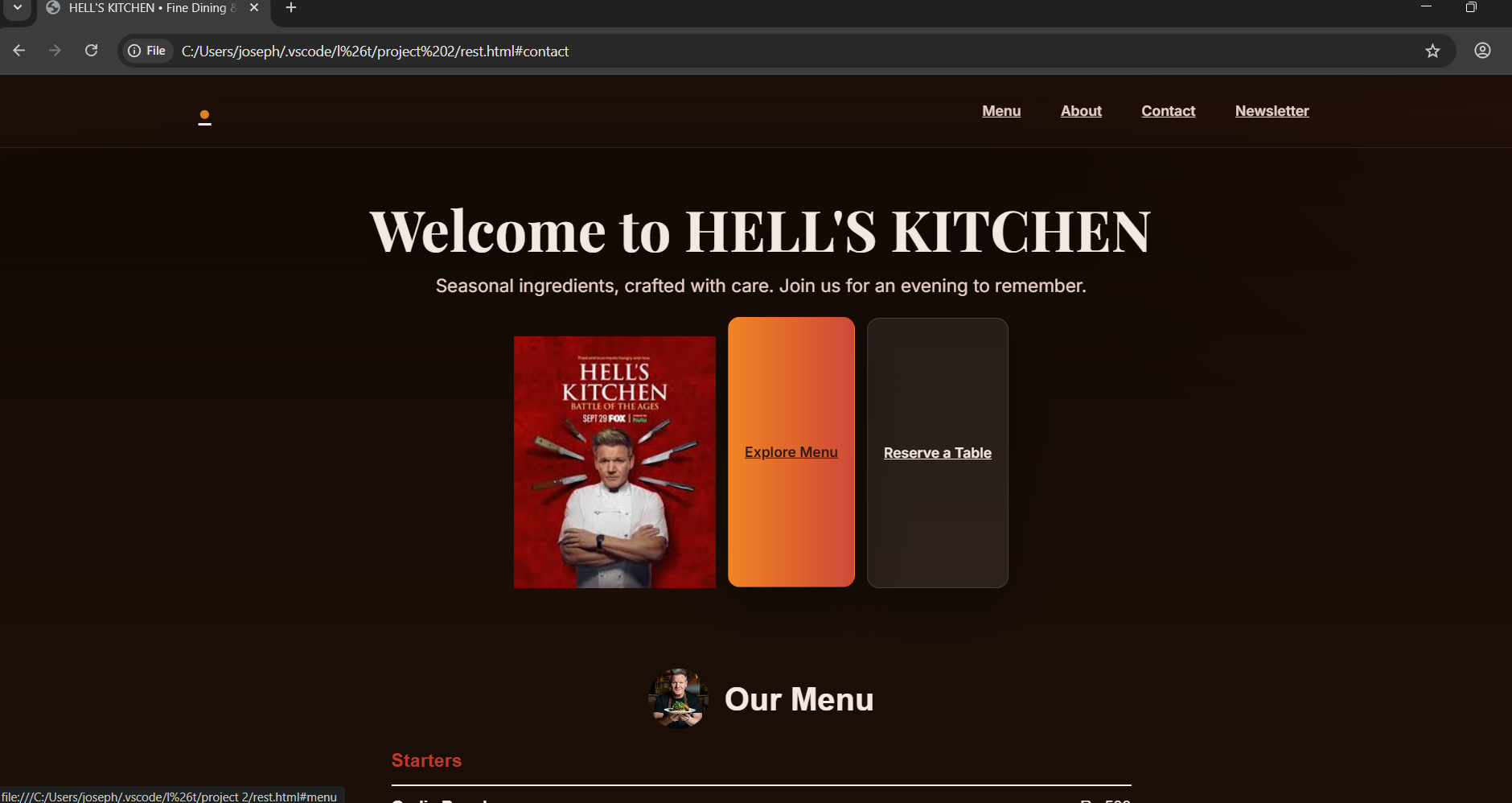
**flex-direction: column; /\* Stack nav items vertically \*/**

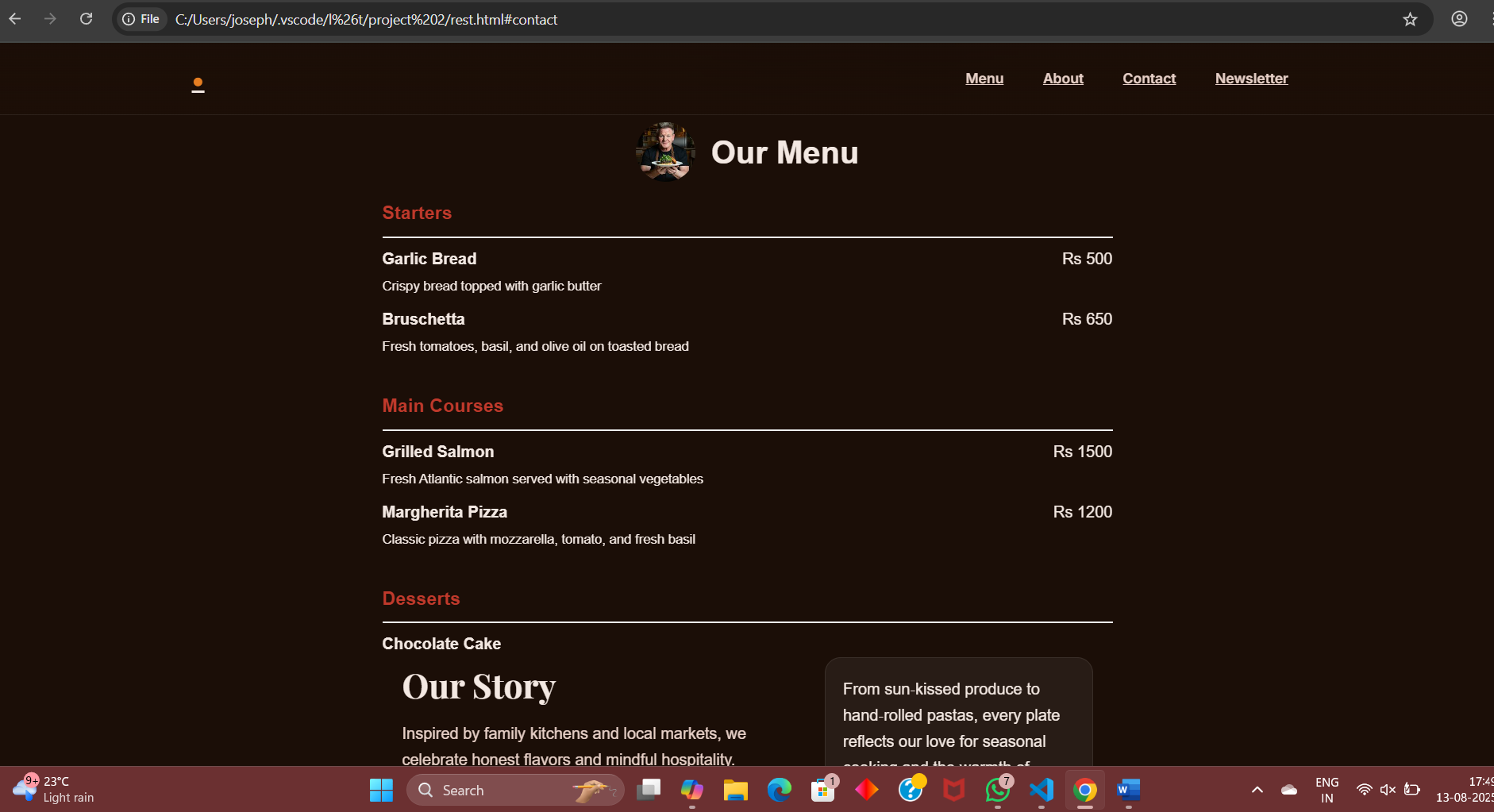
**text-align: center; /\* Center-align text \*/**

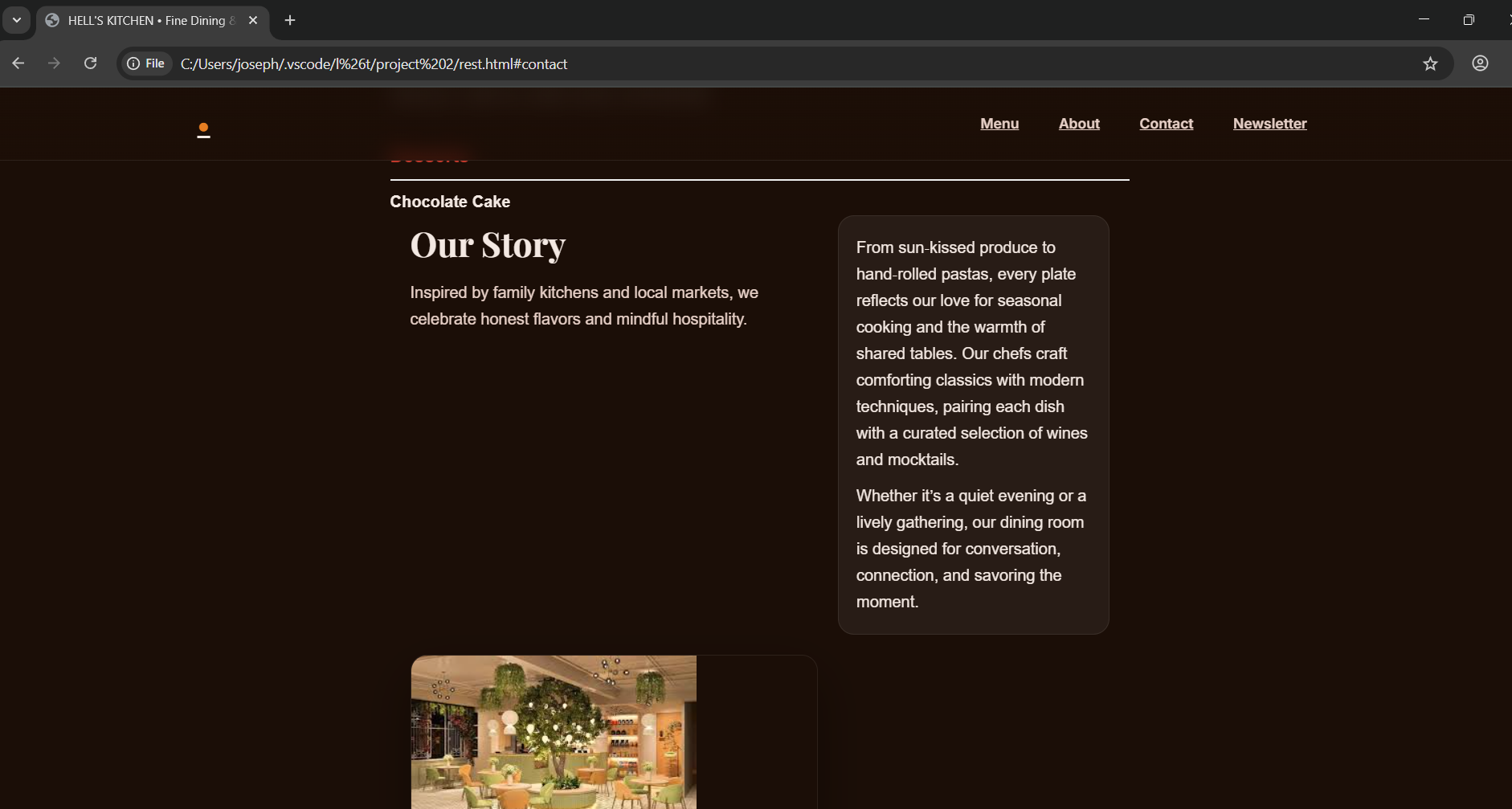
**}**

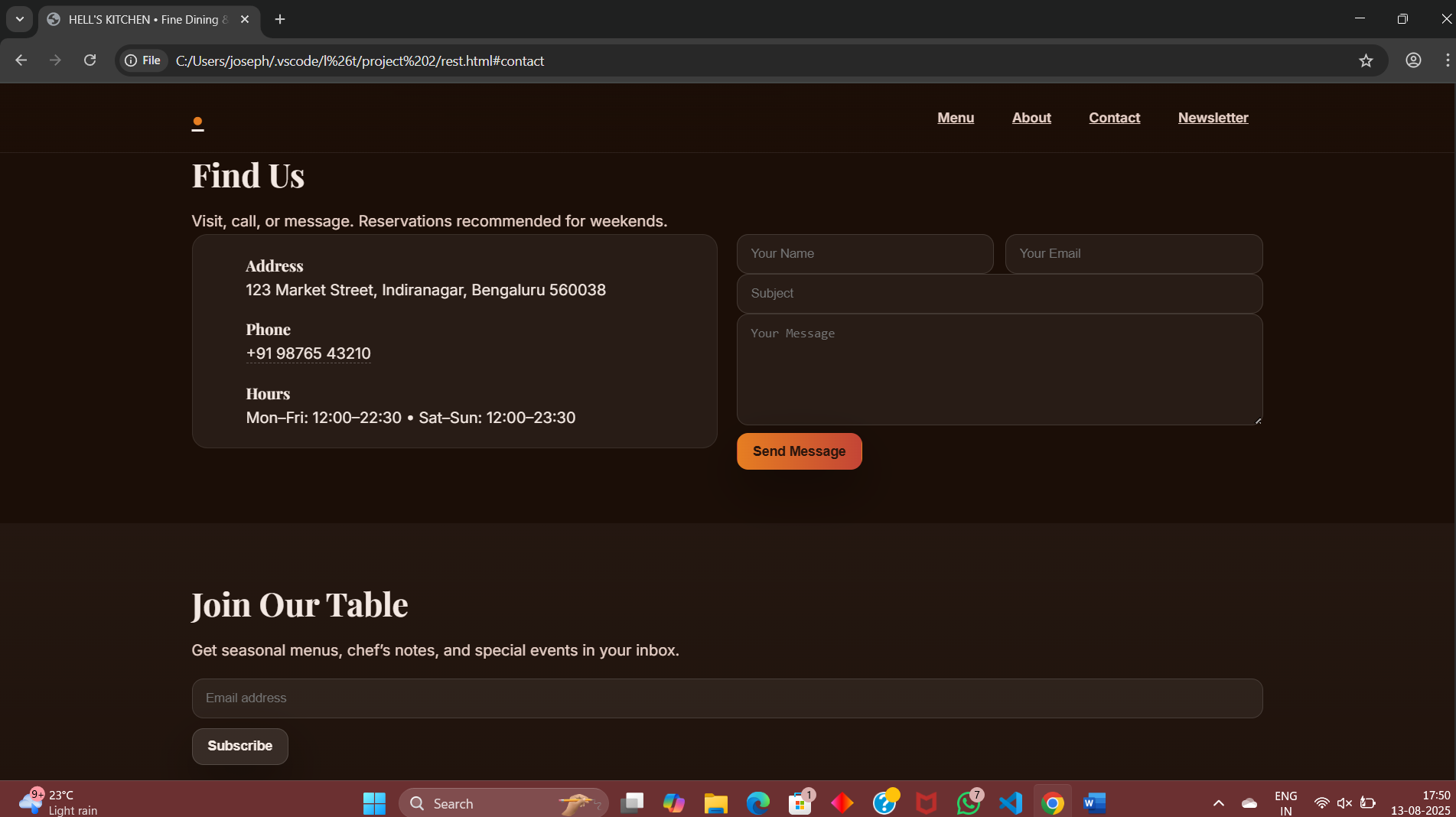
**}**

**13. Screenshots of Final Output**

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**14. Conclusion**

The personal portfolio website developed using HTML and CSS successfully fulfills its intended purpose of presenting the developer’s profile, skills, and projects in a structured and visually appealing manner. By implementing a responsive layout, semantic HTML elements, and clean CSS styling, the project demonstrates proficiency in front-end web development and modern design principles. The site is accessible across devices, easy to navigate, and serves as a professional platform for showcasing technical capabilities. This project not only enhances the developer’s digital presence but also lays a strong foundation for future enhancements such as interactivity, backend integration, and SEO optimization.

**15. References**

* W3Schools HTML & CSS Documentation
* Mozilla Developer Network (MDN)