

Front-End UI/UX Mini Project

Responsive Restaurant Website for ADJ Restaurant

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Course: UI/UX Design Fundamentals

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Date of Submission: 11/08/2025

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Abstract

This project presents a fully responsive restaurant website—ADJ Restaurant—designed and developed using only HTML5 and CSS3. The website features a welcoming landing page, interactive menu cards, smooth navigation, and a visually appealing layout optimized for desktop and mobile devices. The primary goal was to create a modern, accessible, and seamless user experience, focusing solely on front-end technologies. Techniques like Flexbox, Grid, and media queries were used to ensure adaptability and aesthetic consistency. The final outcome is a robust, clean, and user-friendly interface suitable for a real-world restaurant, demonstrating strong UI/UX principles and practical coding skills.

Objectives

- Design a user-friendly interface using modern UI/UX principles.
- Develop a fully responsive layout with only HTML5 and CSS3.
- Implement structured HTML5 semantic elements for clarity and SEO.
- Apply CSS for branding, layout, and responsive behavior.
- Ensure accessibility and readability across all devices.

Scope of the Project

- **Inclusions:**
 - i. Focus on front-end design and user experience.
 - ii. Responsive design for desktop, tablet, and mobile.
 - iii. Usage of only HTML5 and CSS3 (no JavaScript or server-side code).
 - iv. All code and assets are open-source; no third-party libraries.
- **Exclusions:**
 - i. No dynamic interactivity (no JavaScript).
 - ii. No backend or database integration.
 - iii. No form submission or order processing.

Tools & Technologies Used

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

HTML Structure Overview

- Semantic tags: <header>, <nav>, <main>, <section>, <footer>
- Main sections:
 - i. Welcome/Landing Page (welcome.html)
 - ii. Home (Hero) Section
 - iii. Menu Section (with menu cards)
 - iv. About Section
 - v. Order Section
 - vi. Contact Section
- Navigation menu with anchor links for smooth scrolling and easy accessibility.
- Menu implemented using reusable “card” components.

CSS Styling Strategy

- Used a single, external CSS file (styles.css) for all custom styles.
- CSS organized with comments and grouped by section (navigation, hero, menu, etc.).
- **Techniques Used:**
 - i. Flexbox and CSS Grid for layout structure and alignment.
 - ii. Media Queries for responsive design across breakpoints.
 - iii. CSS custom properties (variables) for easy theme management.
 - iv. Gradients, shadows, and hover transitions for visual appeal.
 - v. Mobile-first design approach for better accessibility and scalability.

Key Features

Feature	Description
Responsive Design	Adapts seamlessly to all screen sizes (mobile to desktop)
Smooth Navigation	Fixed top nav bar with anchor links for section jumps
Menu Cards	Flex-based layout with images, prices, and hover effects
Welcome/Landing Page	Attractive entry screen before the main site
Accessible Typography	High-contrast, readable fonts and color schemes
Placeholder Contact Form	Layout present, ready for future integration

Challenges Faced & Solutions

Challenge	Solution
Overlapping elements on small screens	Used media queries to stack/fix layout issues
Difficulty aligning menu cards	Switched from floats to Flexbox/Grid
Typography scaling issues	Used relative units (em/rem) instead of px
Navigation covering content on scroll	Added spacing/margin to content sections

Outcome

- Achieved a visually engaging, consistent, and user-friendly front-end layout.
- All components (navigation, cards, hero, etc.) function as intended using only HTML and CSS.
- Gained deep understanding of responsive design, UI hierarchy, and semantic HTML.
- The project is ready for future enhancements, such as interactivity or backend integration.

Future Enhancements

- Add JavaScript for interactivity (e.g., form validation, dynamic cart).
- Integrate subtle animations for menu transitions.
- Backend integration for real order processing.
- Theme toggler (light/dark mode) for accessibility.

Sample Code

a) Navigation Bar (index.html)

```
<nav>
  <div class="logo">ADJ Restaurant</div>
  <ul id="navbar">
    <li><a href="#home" class="smooth-scroll">Home</a></li>
    <li><a href="#menu" class="smooth-scroll">Menu</a></li>
    <li><a href="#about" class="smooth-scroll">About</a></li>
    <li><a href="#order" class="smooth-scroll">Order</a></li>
    <li><a href="#contact" class="smooth-scroll">Contact</a></li>
  </ul>
  <div class="hamburger" id="hamburger">&#9776;</div>
</nav>
```

b) Responsive Menu Card (index.html)

```
<div class="card animated-card">
  
  <div class="details">
    <div class="details-sub">
      <h5>Masala Dosa</h5><span class="price">₹70</span>
    </div>
    <p>Crispy rice pancake filled with spiced potato masala, served with sambar and coconut chutney.</p>
    <button class="btn-card fancy-btn add-btn" type="button">Add to Order</button>
  </div>
</div>.
```

c) CSS Flexbox Layout (styles.css)

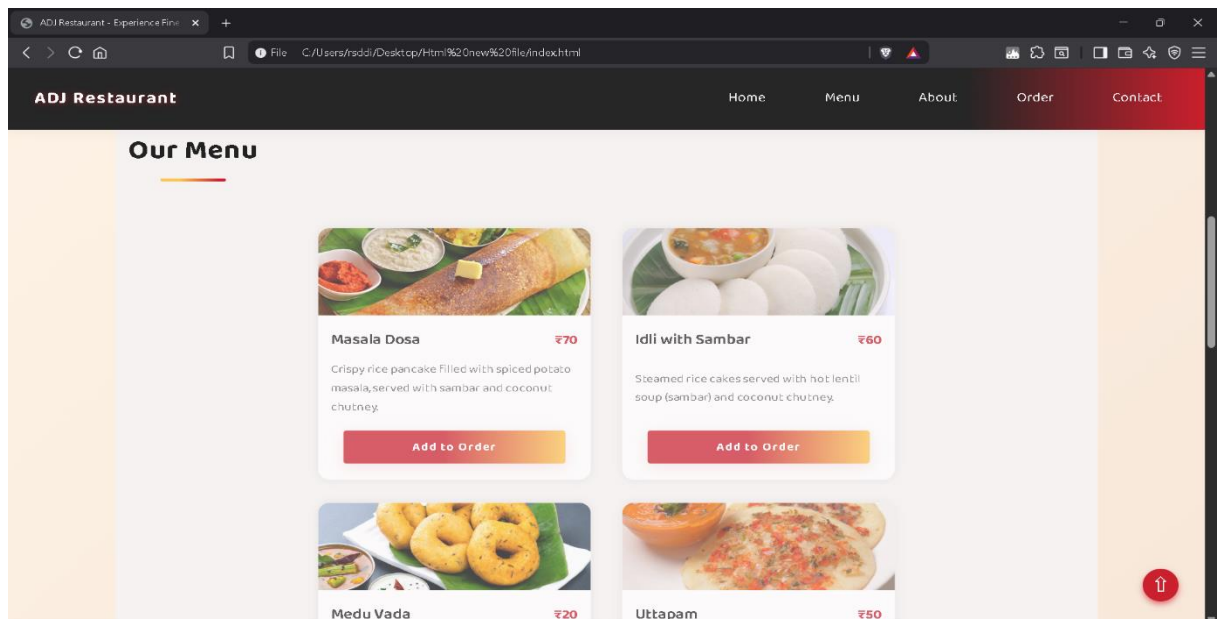
```
.cards-wrapper {
  display: flex;
  flex-wrap: wrap;
  justify-content: center;
  gap: 2rem;
}

.card {
  background: #fff;
  border-radius: 16px;
  box-shadow: 0 4px 24px rgba(203,32,45,0.12);
  width: 320px;
  transition: transform 0.22s, box-shadow 0.22s;
}

.card:hover {
  transform: translateY(-10px) scale(1.04);
  box-shadow: 0 8px 36px rgba(203,32,45,0.19);
}
```

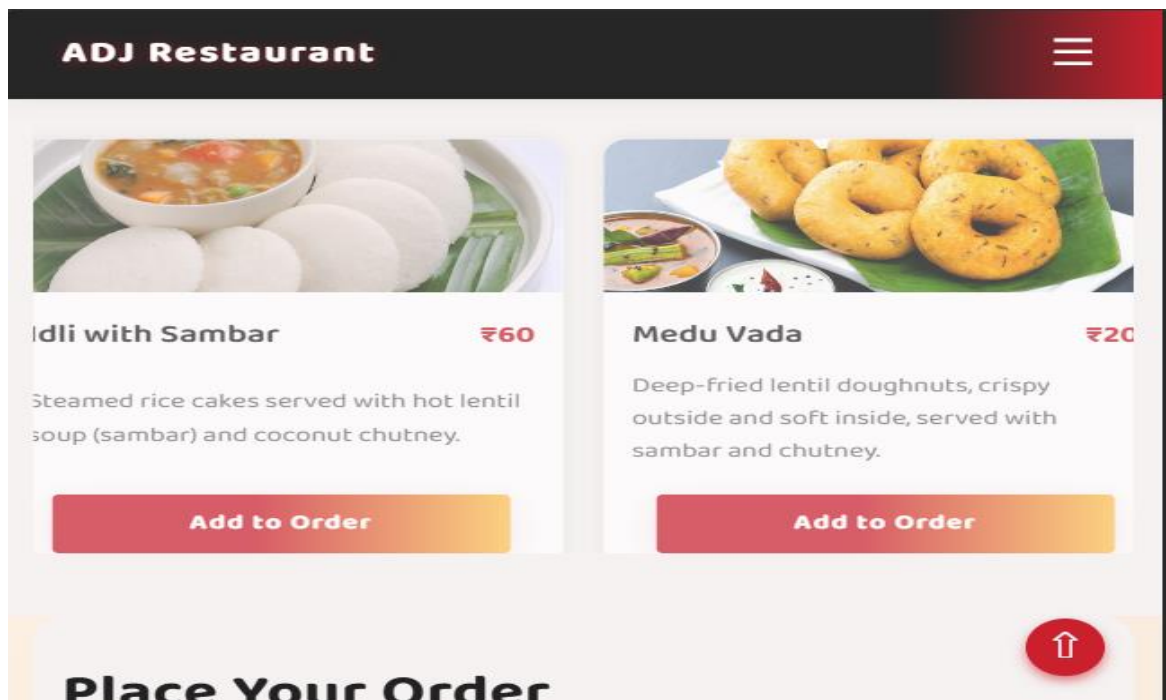
Screenshots of Final Output

a) Desktop View



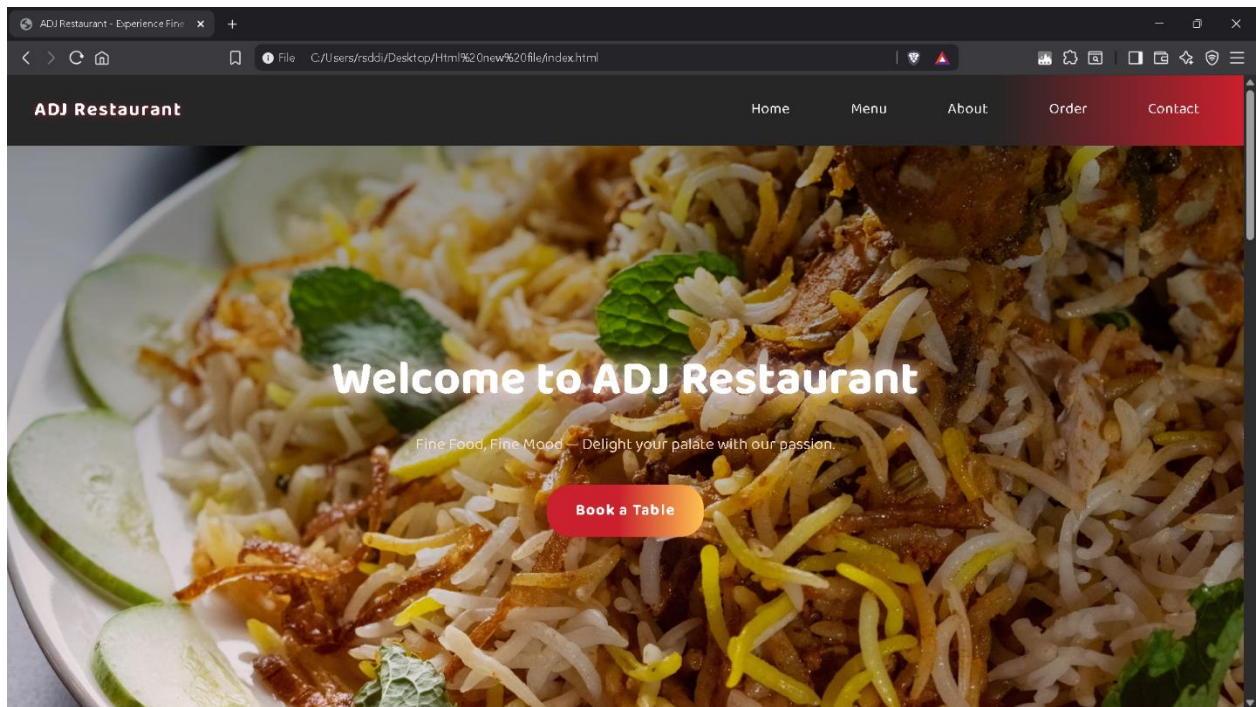
Caption: Homepage on desktop with hero section and navigation.

b) Mobile View



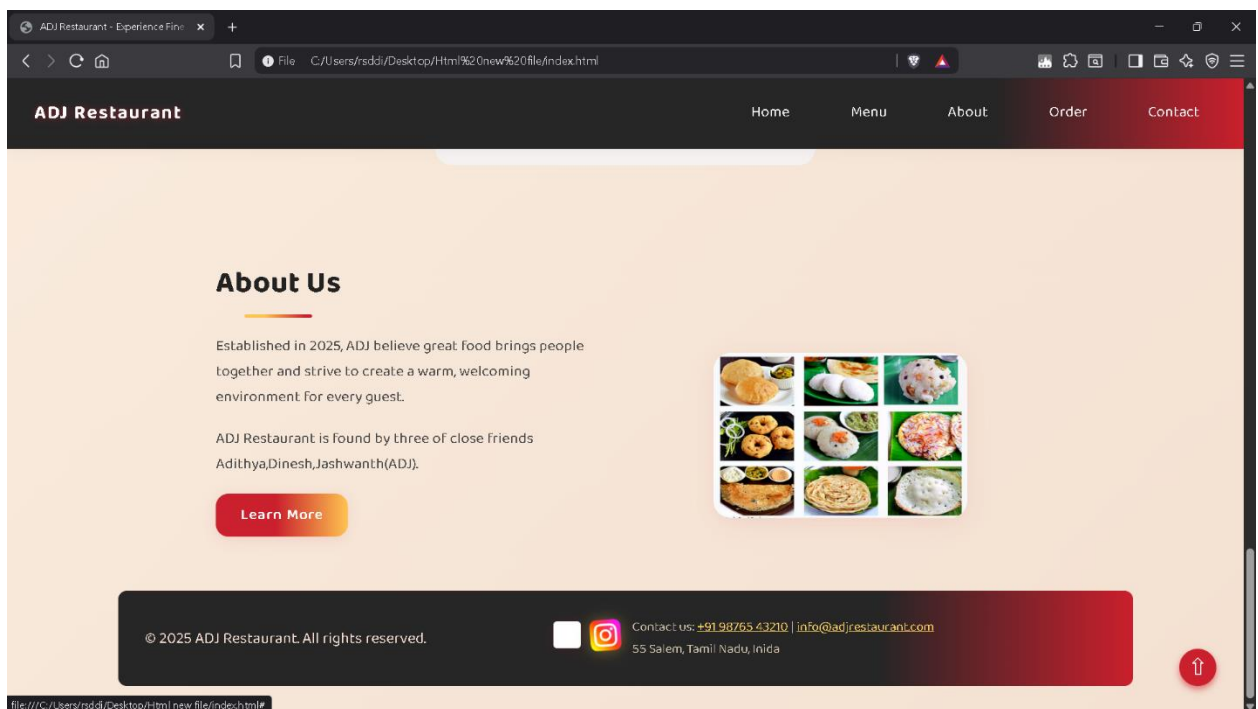
Caption: Menu section as seen on a mobile device.

c) Welcome Page



Caption: The attractive landing page users see when visiting the site.

d) About Section



Caption: About section with responsive text and visuals.

Conclusion

This responsive restaurant website showcases the skills, menu, and contact options for ADJ Restaurant. The project strengthened my ability to design and implement modern, accessible UI/UX solutions using only HTML5 and CSS3. I gained valuable insights into semantic structuring, responsive techniques, and aesthetic consistency—key competencies for front-end development. Future enhancements could add interactivity, animation, and backend functionality to bring the site even closer to real-world deployment.

References

- L&T LMS: <https://learn.lntedutech.com/Landing/MyCourse>