

Front-End UI/UX Mini Project

Project Submission Template

1. Title Page

- **Project Title:** X RESTAURANT
- **Submitted By:**
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- **Course:** *UI/UX Design Fundamentals*
- **Instructor Name:** Mr. Dhiraj alte
- **Institution:** *Christ University*
- **Date of Submission:** 25/09/2025

2. Abstract

This project involves the design and development of a responsive restaurant website titled *X KITCHEN*. The main goal is to provide an attractive and user-friendly online presence for a restaurant, showcasing its menu, services, and contact details. Core technologies used include HTML5, CSS3, Bootstrap, jQuery, and Font Awesome. The website features sections such as Home, Starters, Mains, Desserts, About Us, and Contact, along with smooth scrolling, hover effects, and a "back to top" button. The final outcome is a visually appealing, responsive, and functional static front-end website that enhances customer engagement and accessibility across devices.

3. Objectives

- Design a modern, user-friendly restaurant website.
- Use HTML5 semantic elements and CSS3 for structured, responsive design.
- Incorporate Bootstrap for layout and styling efficiency.
- Implement smooth navigation and interactive elements (hover, scroll).
- Provide a visually consistent menu display with pricing.

- Ensure compatibility across desktop, tablet, and mobile devices.

4. Scope of the Project

The project focuses exclusively on front-end development, showcasing the restaurant's menu, ambiance, and contact details. It does not include backend integration or dynamic ordering functionality. The scope is limited to creating a visually engaging and responsive design that can serve as a promotional platform for the restaurant.

5. Tools & Technologies Used

| Tool/Technology | Purpose |
|-----------------|---|
| Bootstrap 5 | Grid layout, responsive design, prebuilt components |
| jQuery | Smooth scrolling, back-to-top button |
| VS Code | Code editor |
| Chrome DevTools | Testing and debugging |

6. HTML Structure Overview

- <header> for title and navbar.
- <section> for each key part: Hero, Starters, Mains, Desserts, About, Contact.
- <footer> for copyright.
- Navigation via anchor links with smooth scrolling.
- Images integrated into sections with hover transitions.

7. CSS Styling Strategy

- Bootstrap classes for grid layout and responsiveness.
- Custom CSS for background image, header/footer, hover effects.
- Mobile-first approach with scaling.
- Transitions for images (zoom on hover).
- Fixed background for immersive design.

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

The project successfully produced a **visually engaging, responsive restaurant website** with well-structured sections, smooth navigation, and interactive features. It demonstrates how front-end development can create an effective digital presence for businesses.

11. Future Enhancements

- Add online ordering system with backend integration.
- Include customer reviews/testimonials.
- Integrate Google Maps for location.
- Implement light/dark mode toggle.
- Add animations and JavaScript-based interactivity (sliders, carousels).

12. Sample Code

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="utf-8">
5    <title>X KITCHEN</title>
6    <meta name="viewport" content="width=device-width, initial-scale=1">
7
8    <!-- Bootstrap CSS -->
9    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
10
11    <!-- Font Awesome (icons) -->
12    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.1/css/all.min.css">
13
14    <style>
15      body {
16        background-image: url('https://i.pinimg.com/originals/56/66/ed/56668b23162c018afae8061cfcdc.png');
17        background-size: cover;
18        background-repeat: no-repeat;
19        background-attachment: fixed;
20        font-family: Arial, sans-serif;
21        margin: 0;
22      }
23
24      header {
25        background-color: #b21a48;
26        color: #fff;
27        padding: 15px 0;
28        text-align: center;
29        box-shadow: 0 4px 6px #000;
30      }
31
32      header h1 {
33        font-family: 'Georgia', serif;
34        font-size: 26px;
35        letter-spacing: 2px;
36        margin: 0;
37      }
38
39      section {

```

```

40        padding: 50px 20px;
41        background-color: #f8d7da;
42        margin: 20px auto;
43        border-radius: 10px;
44        width: 90%;
45        max-width: 1100px;
46        text-align: center;
47      }
48
49      section img {
50        width: 100%;
51        height: 180px;
52        object-fit: cover;
53        border-radius: 8px;
54        transition: transform 0.3s;
55      }
56
57      section img:hover {
58        transform: scale(1.05);
59      }
60
61      footer {
62        background-color: #b21a48;
63        color: #fff;
64        text-align: center;
65        padding: 20px;
66        margin-top: 20px;
67      }
68
69      /* Back to top button */
70      #backtoTop {
71        position: fixed;
72        bottom: 30px;
73        right: 30px;
74        display: none;

```

```

75      }
76
77      #backtoTop {
78        background-color: #b21a48;
79        color: #fff;
80        border: none;
81        padding: 10px 15px;
82        border-radius: 50%;
83        font-size: 18px;
84        cursor: pointer;
85        z-index: 999;
86      }
87
88      </style>
89    </head>
90    <body>
91
92      <!-- Bootstrap Navbar -->
93      <nav class="navbar navbar-expand-lg navbar-dark justify-content-center">
94        <div class="nav-item">
95          <a href="#" class="nav-link">Home</a>
96          <a href="#" class="nav-link">Starters</a>
97          <a href="#" class="nav-link">Main</a>
98          <a href="#" class="nav-link">Desserts</a>
99          <a href="#" class="nav-link">About Us</a>
100         <a href="#" class="nav-link">Contact Us</a>
101       </div>
102     </nav>
103
104     <!-- Hero -->
105     <div class="hero">
106       <h1>Welcome to X KITCHEN</h1>
107       <p>Delicious food, warm ambience, and great service.</p>
108     </div>

```

```

146
147 <!-- Desserts -->
148 <section id="desserts">
149   <h2>Desserts</h2>
150   <div class="row g-4">
151     <div class="col-md-4">
152       
153       <p>ICE CREAM - ₹60</p>
154     </div>
155     <div class="col-md-4">
156       
157       <p>GULAB JAMUN- ₹90</p>
158     </div>
159   </div>
160 </section>
161
162 <!-- About -->
163 <section id="about">
164   <h2>About Us</h2>
165   <p>At X KITCHEN, we bring you the finest flavors crafted with love. Our chefs use fresh ingredients to prepare dishes that delight your senses.</p>
166   
167 </section>
168
169 <!-- Contact -->
170 <section id="contact">
171   <h2>Contact Us</h2>
172   <p><i class="fa fa-map-marker-alt"></i> near Christ University Kengeri campus, Karminike</p>
173   <p><i class="fa fa-phone"></i> +1 234 567 890</p>
174   <p><i class="fa fa-clock"></i> Mon-Sun: 10:00 AM - 10:00 PM</p>
175 </section>
176
177

```

```

183 <!-- Back to Top -->
184 <button id="backToTop"><i class="fa fa-arrow-up"></i></button>
185
186 <!-- jQuery + Bootstrap JS -->
187 <script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>
188 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
189
190 <script>
191   // Smooth scrolling for nav links
192   $("nav ul li a").on("click", function(e) {
193     if (this.hash != "") {
194       e.preventDefault();
195       const hash = this.hash;
196       $("html, body").animate({
197         scrollTop: $(hash).offset().top - 20
198       }, 800);
199     }
200   });
201
202   // Back to top button
203   $(window).scroll(function() {
204     if ($(this).scrollTop() > 200) {
205       $("#backToTop").fadeIn();
206     } else {
207       $("#backToTop").fadeOut();
208     }
209   });
210
211   $("#backToTop").click(function() {
212     $("html, body").animate({ scrollTop: 0 }, 800);
213   });
214 </script>
215
216 </body>
217 </html>
218

```

```

183 </ Back to Top >
184 <button id="backtoTop" class="fa fa-arrow-up"/></button>
185
186 </ jQuery >
187 <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
188 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.2/dist/js/bootstrap.bundle.min.js"></script>
189
190 <script>
191 // Smooth scrolling for nav links
192 $(document).on('click', function(e) {
193   if ($(this).prop("href") !== "#") {
194     e.preventDefault();
195     const hash = this.hash;
196     $('html, body').animate({
197       scrollTop: $(hash).offset().top - 20
198     }, 800);
199   }
200 });
201
202 // Back to top button
203 $(window).scroll(function() {
204   if ($(this).scrollTop() > 700) {
205     $('#backtoTop').fadeIn();
206   } else {
207     $('#backtoTop').fadeOut();
208   }
209 });
210
211 $('#backtoTop').click(function() {
212   $('html, body').animate({ scrollTop: 0 }, 800);
213 });
214 </script>
215
216 </body>
217 </html>
218

```

11. Conclusion

The *X KITCHEN* project helped me strengthen front-end development skills by applying HTML, CSS, and Bootstrap to build a responsive restaurant website. I learned how to integrate design principles, improve navigation, and enhance user experience through interactivity. The project emphasized the importance of usability, consistency, and aesthetics in web design.

12. References

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