Front-End UI/UX Mini Project   
   
Course: UI/UX Design Fundamentals

Project Title

**Digital Business Card**

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**Institution:** Christ University ,Bangalore 

**1. Abstract:**

This HTML project showcases two creative web pages, with a primary focus on a **Digital Business Card** designed to present a professional online identity. The card features essential contact details, a brief bio, and links to social profiles, structured using semantic HTML tags like header, section and footer and . Styling was applied through **CSS** and enhanced using **Bootstrap**, which provided a responsive layout and visually consistent components.

To elevate interactivity, **JavaScript** and **jQuery** were integrated for dynamic behaviors such as form validation, content toggling, and smooth animations. These additions transformed the static layout into a more engaging user experience. The project effectively demonstrates foundational web development skills while applying modern tools to create a clean, functional, and visually appealing personal profile page

**2.Objectives:**

* Modern UI Business Card Design  
  Crafted a visually appealing digital business card using contemporary UI principles, focusing on clarity, minimalism, and professional aesthetics.
* Responsive Vertical Navigation  
  Implemented a vertical navigation system that adapts seamlessly across screen sizes, ensuring intuitive access on both desktop and mobile devices.
* Eye-Catching Digital Identity  
  Designed a standout digital business card that highlights personal details, social links, and branding elements to leave a lasting impression.
* Structured Menu Card for Donut Items  
  Developed a categorized menu layout showcasing donut varieties, organized for easy browsing and enhanced user experience.
* Layered Visual Composition  
  Ensured proper layering of background and foreground elements to create depth, contrast, and visual hierarchy throughout the interface.
* Cross-Device Consistency  
  Maintained consistent styling, layout, and functionality across devices using responsive design techniques and Bootstrap utilities.

**3.Scope of the Project:**

* Front-End Development with HTML/CSS  
  Focused entirely on client-side development using semantic HTML for structure and CSS for styling, without any backend or scripting logic.
* No JavaScript or Backend Integration  
  The project intentionally excludes JavaScript and server-side functionality to emphasize pure front-end design principles.
* Menu Display & Visual Presentation  
  Designed a visually appealing menu layout that highlights content organization, readability, and aesthetic appeal.
* Responsive Multi-Device Design  
  Ensured seamless display across desktops, tablets, and mobile devices using media queries and flexible layout techniques.
* Pure CSS Animations & Transitions  
  Incorporated smooth visual effects using only CSS, enhancing user experience with hover effects, transitions, and subtle animations

**4.HTML Structure Overview:**

• Semantic structure with <header>, <nav>, <main>, and <div> sections   
• Vertical navigation bar with icon links   
• Three main sections: header banner, donut display, and menu card   
• Organized menu using <ul> lists with price spans.

**5. Tools and Overview:**

|  |  |
| --- | --- |
| **HTML5** | Markup and content structure |
| **CSS3** | Styling and layout management |
| **VS Code** | Code editor |
| **Chrome DevTools** | Testing and debugging |

**6.CSS Styling Overview:**

 External CSS file with organized sections   
• Key techniques used:

* Flexbox for layout management
* z-index for element layering
* Media queries for responsiveness
* CSS filters for background effects

**7.Js and Jquery styling Overview:**

* Dynamic Style Changes: JavaScript and jQuery allow you to modify CSS properties in real-time—for example, changing background colors, font sizes, or visibility based on user actions like clicks or form submissions.
* Interactive Effects: jQuery simplifies adding animations such as fade-ins, slide toggles, and hover effects, making the interface more engaging without writing complex CSS transitions.
* Responsive Behavior: You can use JavaScript/jQuery to detect screen size or user input and apply conditional styling, ensuring your layout adapts smoothly across devices.

**8.Bootstrap styling overview:**

* Responsive Layouts: Bootstrap’s grid system and utility classes make it easy to create layouts that automatically adjust across devices, ensuring a consistent look on desktops, tablets, and phones.
* Pre-styled Components: It offers ready-to-use elements like buttons, cards, navbars, and modals with built-in styling, saving time and maintaining design consistency without writing custom CSS.
* Customizable Themes: With Bootstrap variables and classes, you can quickly tweak colors, spacing, typography, and more to match your brand or personal style while keeping the code clean and modular.

**9.Key Features:Key Features**

|  |  |
| --- | --- |
| **Feature** | **Description** |
| **Responsive Design** | Adapts seamlessly to all screen sizes |
| **Project Cards** | Flex-based layout with hover effects |
| **Accessible Fonts & Colors** | High contrast and readable typography |

**10. 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 |

**11.Outcome:**

**•** Created an professionnal and attractive business card.  
 • Successfully implemented all visual elements using only HTML/CSS   
 • Achieved responsive behavior across device sizes   
 • Developed understanding of complex layering techniques   
 • Established effective visual hierarchy and branding

**12.Future Enhancement:**

* Structured Layout with HTML: Used semantic tags to organize content and link external profiles, forming a solid foundation for the page.
* Responsive Design via Bootstrap: Applied grid systems, cards, and utility classes to create a clean, mobile-friendly interface.
* Interactive Features with JavaScript: Added order functionality and form validation to improve user engagement and usability.
* Dynamic Enhancements using jQuery: Simplified DOM manipulation and introduced smooth animations and event handling.
* Content & Visual Expansion: Included detailed work descriptions, services offered, and graphical elements to make the page more informative and visually appealing.

**13.Sample code:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Software Engineer Business Card</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.0/css/all.min.css">

<script src="https://cdn.jsdelivr.net/npm/qrcodejs/qrcode.min.js"></script>

<style>

body {

background: linear-gradient(135deg, #dfe9f3, #ffffff);

font-family: 'Segoe UI', sans-serif;

padding: 40px;

transition: background 0.5s ease;

}

/\* Glassmorphism Card \*/

.business-card {

max-width: 420px;

margin: auto;

background: rgba(255, 255, 255, 0.15);

backdrop-filter: blur(20px);

border-radius: 20px;

border: 2px solid rgba(255,255,255,0.3);

overflow: hidden;

box-shadow: 0 8px 25px rgba(0,0,0,0.15);

transition: 0.3s, transform 0.3s, box-shadow 0.3s;

position: relative;

padding-bottom: 100px;

}

.business-card:hover {

transform: translateY(-5px);

box-shadow: 0 12px 35px rgba(0,0,0,0.2);

}

/\* Animated Gradient Border \*/

.business-card::before {

content: "";

position: absolute;

inset: 0;

border-radius: 20px;

padding: 2px;

background: linear-gradient(270deg, #6a11cb, #2575fc, #00c6ff, #0072ff);

background-size: 400% 400%;

animation: borderMove 8s ease infinite;

-webkit-mask: linear-gradient(#fff 0 0) content-box, linear-gradient(#fff 0 0);

-webkit-mask-composite: xor;

mask-composite: exclude;

}

@keyframes borderMove {

0% {background-position: 0% 50%;}

50% {background-position: 100% 50%;}

100% {background-position: 0% 50%;}

}

.card-header {

text-align: center;

padding: 30px 20px 20px;

color: #fff;

}

.card-header img {

width: 100px;

height: 100px;

border-radius: 50%;

border: 3px solid #fff;

margin-bottom: 12px;

object-fit: cover;

}

.card-header h4 {

margin: 5px 0;

font-weight: 700;

color: #fff;

font-size: clamp(18px, 2vw, 24px);

text-shadow: 0 1px 3px rgba(0,0,0,0.3);

}

.card-header p {

font-size: 14px;

font-family: "Courier New", monospace;

color: #e0e0e0;

text-shadow: 0 1px 3px rgba(0,0,0,0.3);

}

.card-body {

padding: 20px;

text-align: center;

color: #fff;

}

.contact-info p {

margin: 8px 0;

font-size: 14px;

color: #e0e0e0;

text-shadow: 0 1px 3px rgba(0,0,0,0.3);

transition: 0.3s;

}

.contact-info p:hover {

color: #00ffcc;

transform: translateX(5px);

}

.contact-info i {

color: #00c6ff;

margin-right: 8px;

}

.social-icons {

margin-top: 15px;

}

.social-icons a {

display: inline-block;

margin: 0 10px;

font-size: 22px;

color: #00c6ff;

transition: 0.3s ease;

text-decoration: none;

}

.social-icons a:hover {

color: #00ffcc;

transform: scale(1.2) rotate(5deg);

}

/\* QR Section \*/

.qr-container {

position: absolute;

bottom: 15px;

left: 50%;

transform: translateX(-50%);

background: rgba(255,255,255,0.1);

padding: 10px;

border-radius: 12px;

}

/\* Dark Mode \*/

body.dark {

background: linear-gradient(135deg, #0f2027, #203a43, #2c5364);

}

body.dark .business-card {

background: rgba(20,20,30,0.6);

border: 2px solid rgba(255,255,255,0.1);

}

body.dark .card-header h4,

body.dark .contact-info p {

color: #ffffff;

}

/\* Toggle button \*/

.toggle-btn {

position: absolute;

top: 20px;

right: 20px;

background: #00c6ff;

color: #fff;

border: none;

border-radius: 20px;

padding: 6px 16px;

font-size: 14px;

cursor: pointer;

transition: 0.3s;

z-index: 10;

}

.toggle-btn:hover {

background: #00ffcc;

}

/\* Responsive \*/

@media (max-width: 480px) {

.business-card {

max-width: 90%;

padding-bottom: 80px;

}

.card-header img {

width: 80px;

height: 80px;

}

.qr-container {

bottom: 10px;

}

}

</style>

</head>

<body>

<button class="toggle-btn" onclick="toggleMode()">🌙 Dark Mode</button>

<div class="business-card">

<div class="card-header">

<img src="https://avatars.githubusercontent.com/u/9919?s=280&v=4" alt="Profile">

<h4>John Doe</h4>

<p><i class="fas fa-code"></i> Software Engineer</p>

</div>

<div class="card-body">

<div class="contact-info">

<p><i class="fas fa-phone"></i> +91 98765 43210</p>

<p><i class="fas fa-envelope"></i> johndoe@email.com</p>

<p><i class="fas fa-globe"></i> www.johndoe.dev</p>

</div>

<div class="social-icons">

<a href="#" aria-label="GitHub Profile"><i class="fab fa-github"></i></a>

<a href="#" aria-label="LinkedIn Profile"><i class="fab fa-linkedin"></i></a>

<a href="#" aria-label="Twitter Profile"><i class="fab fa-twitter"></i></a>

</div>

</div>

<div class="qr-container">

<a href="https://www.johndoe.dev" target="\_blank">

<div id="qrcode"></div>

</a>

</div>

</div>

<script>

function generateQRCode() {

const isDark = document.body.classList.contains("dark");

document.getElementById("qrcode").innerHTML = "";

new QRCode(document.getElementById("qrcode"), {

text: "https://www.johndoe.dev",

width: 80,

height: 80,

colorDark : isDark ? "#ffffff" : "#000000",

colorLight : isDark ? "#1a1a1a" : "#ffffff",

correctLevel : QRCode.CorrectLevel.H

});

}

function toggleMode() {

document.body.classList.toggle("dark");

const btn = document.querySelector(".toggle-btn");

btn.textContent = document.body.classList.contains("dark") ? "☀ Light Mode" : "🌙 Dark Mode";

localStorage.setItem("theme", document.body.classList.contains("dark") ? "dark" : "light");

generateQRCode();

}

window.onload = function() {

const theme = localStorage.getItem("theme");

if (theme === "dark") {

document.body.classList.add("dark");

document.querySelector(".toggle-btn").textContent = "☀ Light Mode";

}

generateQRCode();

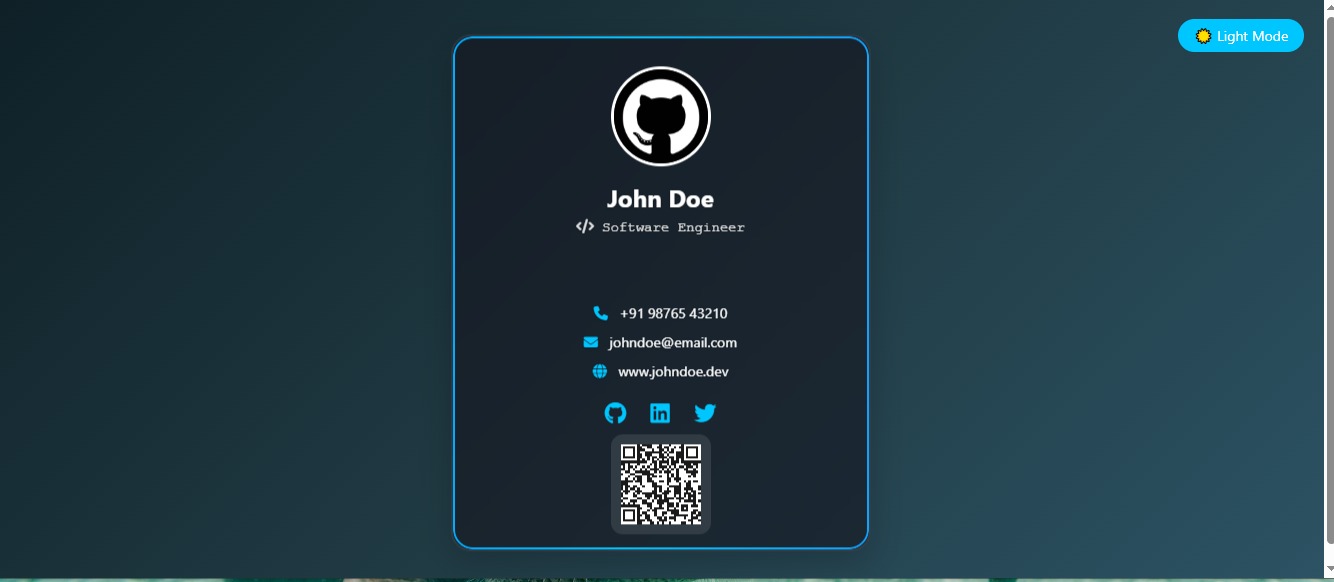
}

</script>

</body>

**</html>**

**Sample Output:**



**14.Conclusion:**

This project provided a practical understanding of how HTML, CSS, JavaScript, jQuery, and Bootstrap work together to build responsive and interactive web pages. By combining semantic structure, visual styling, and dynamic behavior, I gained hands-on experience in creating a personal profile page that is both functional and visually appealing. This foundation sets the stage for more advanced web development projects in the future.

**15.Reference:**

• L&T LMS: <https://learn.lntedutech.com/Landing/MyCourse>   
• MDN Web Docs   
• CSS-Tricks   
• W3Schools   
• Font Awesome documentation