

Project Submission Report: Digital Business Card

Here is a project submission report for the "Digital Business Card" mini-project, following the provided template.

1. Title Page

1. Title Page

- **Project Title:** Digital Business Card
 - **Submitted By:**
 - Mervin A, 2462113, mervin.a@btech.christuniversity.in
 - Jason Cyrus I, 2462078, jason.cyrus@btech.christuniversity.in
 - Sabharimanivel, 2462187, sabharimanivel.b@btech.christuniversity.in
 - **Course:** UI/UX Design Fundamentals
 - **Instructor Name:** Dhiraj
 - **Institution:** Christ University
 - **Date of Submission:** 13/08/2025
-

2. Abstract

This project involves designing and developing a responsive digital business card using only HTML and CSS. The card serves as a clean, modern, and interactive online presence, showcasing a person's name, title, a brief bio, and essential contact links. The primary goal was to create a visually appealing, user-friendly, and fully responsive layout that adapts seamlessly to different screen sizes. The core technologies used are HTML5 and CSS3. The final outcome is a single-page web component that effectively presents professional information in a compact and elegant format, demonstrating a strong understanding of fundamental front-end design principles.

3. Objectives

- To design a user-friendly and aesthetically pleasing interface for a digital business card using modern UI principles.
 - To develop a fully responsive layout that adapts to desktop, tablet, and mobile devices using only HTML and CSS.
 - To implement structured HTML5 semantic elements for a clean and accessible code base.
 - To apply CSS styling for branding, layout, and interactive features like hover effects and transitions.
 - To ensure high accessibility and readability of content across various devices and screen sizes.
-

4. Scope of the Project

The project focuses exclusively on **front-end design** and development using pure HTML and CSS. It does not include any JavaScript for interactivity or server-side integration for functionalities like form submission. The project is designed to be functional across desktop, tablet, and mobile viewports. The tools used are limited to open-source software and pure code.

5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling, layout management, and responsive behavior
VS Code	Code editor for development

Chrome DevTools	For testing, debugging, and inspecting the layout
-----------------	---

6. HTML Structure Overview

The HTML file (index.html) is structured with a single div container wrapping the entire business card component. Semantic tags like a `<footer>` are used to structure the page content. The card itself is composed of a header for the profile image, a content section for the text, and a div for the contact links. A `<meta name="viewport">` tag ensures proper scaling and responsiveness on different devices.

7. CSS Styling Strategy

An external CSS file (style.css) is used to manage all styling. The styling approach follows a **mobile-first design** philosophy, with media queries used to adjust the layout for larger screen sizes. The layout is managed primarily with **Flexbox** for aligning elements within the card and its sections. The CSS also includes:

- A custom gradient background for the body.
 - CSS variables for a clean and maintainable color scheme.
 - Hover effects and transitions on the card itself, the profile image, and the contact buttons to enhance user experience.
 - Relative units (rem, em) are used for typography to ensure better scalability and accessibility.
 - Specific styles for printing and reduced motion preferences are also included for accessibility.
-

8. Key Features

Feature	Description
Responsive Design	The layout seamlessly adapts to all screen sizes, from mobile phones to large desktops.
Hover Effects & Transitions	Interactive hover animations on the card, profile image, and buttons provide a dynamic feel.
Clear Visual Hierarchy	The design uses font weights, sizes, and colors to guide the user's attention effectively.
CSS-based Layout	Utilizes modern CSS techniques like Flexbox for efficient and robust element positioning.
Semantic HTML	Employs meaningful HTML5 tags for a well-structured and accessible document.

9. Challenges Faced & Solutions

Challenge	Solution
Typography scaling issue	Used relative units (em/rem) instead of fixed px to ensure text scales appropriately across different devices.

Achieving a clean, centered layout	Utilized Flexbox and margin: 0 auto on the container to center the card both horizontally and vertically on the page.
Creating interactive button effects without JavaScript	Implemented complex CSS pseudo-elements (::before) and transform properties to create a dynamic shimmer and button press effect on hover and active states.

10. Outcome

The project successfully achieved its goal of creating a clean, consistent, and visually engaging front-end layout for a digital business card. All key components, including the profile image, text content, and interactive buttons, function as intended using only HTML and CSS. This project provided hands-on experience and a deeper understanding of layout responsiveness and UI hierarchy.

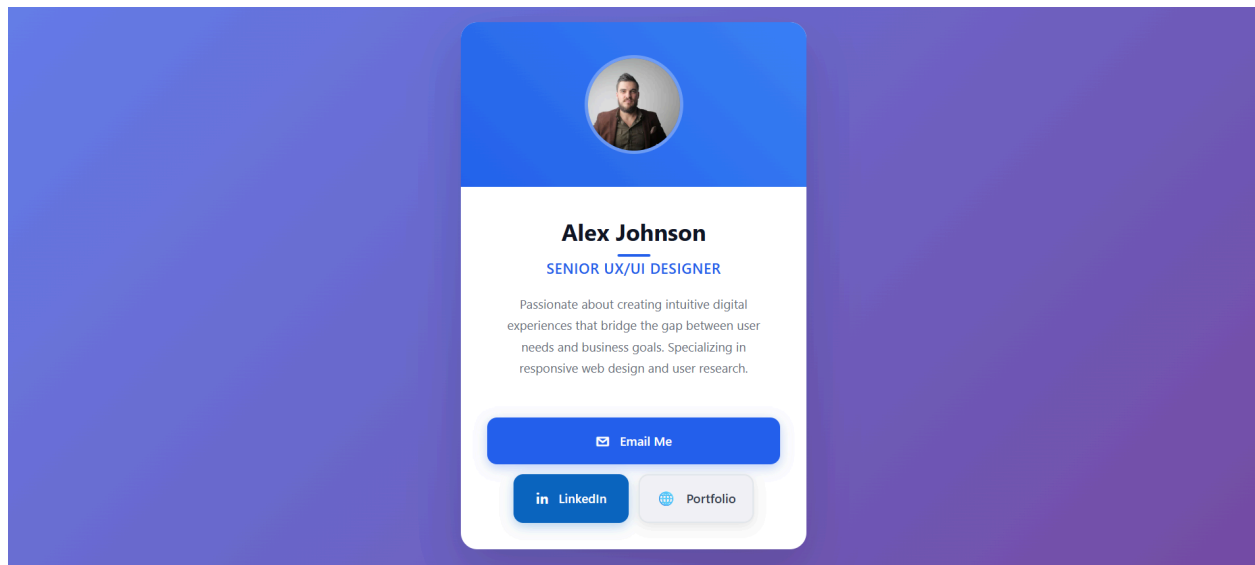
11. Future Enhancements

- Adding JavaScript for form validation on a more complex version or a contact form.
 - Integrating animations or transitions for a more dynamic user experience.
 - Implementing a theme toggler (light/dark mode) using CSS variables and a small amount of JavaScript.
 - Adding a backend to make the contact links dynamic or enable form submissions.
-

12. Sample Code

```
<body>
  <div class="container">
    <!-- Main Card Section -->
    <div class="business-card">
      <div class="card-header">
        <div class="profile-image-container">
          
          <div class="profile-overlay"></div>
        </div>
      </div>
      <div class="card-content">
        <h1 class="name">Alex Johnson</h1>
        <p class="title">Senior UX/UI Designer</p>
        <p class="bio">Passionate about creating intuitive digital experiences that bridge the gap between user needs and business
      </p>
      </div>
      <!-- Links Section -->
      <div class="links-section">
        <a href="mailto:alex.johnson@email.com" class="contact-btn email-btn">
          <span class="btn-icon">✉</span>
          <span class="btn-text">Email Me</span>
        </a>
        <a href="https://linkedin.com/in/alexjohnson" target="_blank" class="contact-btn linkedin-btn">
          <span class="btn-icon">in</span>
          <span class="btn-text">LinkedIn</span>
        </a>
        <a href="https://alexjohnson.design" target="_blank" class="contact-btn portfolio-btn">
          <span class="btn-icon">🌐</span>
          <span class="btn-text">Portfolio</span>
        </a>
      </div>
    </div>
  </div>
```

13. Screenshots of Final Output



14. Conclusion

This is a digital business card, which functions as a personal portfolio website. It showcases a user's skills, projects, resume, and contact form. The mini-project strengthened my front-end development skills using only HTML and CSS. Through this project, I gained practical insights into responsive design, layout structuring, and user interface aesthetics. The hands-on implementation of design principles also enhanced my understanding of user-centric web design.

15. References

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