



Front-End UI/UX Mini Project

Project 1

1. Title Page

- **Project Title:** *Digital Business Card*
- **Submitted By:**
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- **Course:** *e.g., UI/UX Design Fundamentals*
- **Instructor Name:** *Dhirag*
- **Institution:** *Christ University*
- **Date of Submission:** *11/08/2025*

2. Abstract

This project focuses on creating an interactive and visually appealing digital business card using only HTML and CSS. The main feature is a flip animation that reveals additional information when toggled. The project aims to replace traditional paper cards with a responsive, stylish, and modern alternative. Core technologies used include HTML5 for structure, CSS3 for styling and animations, and Font Awesome for icons. The final output is a smooth, professional, and interactive UI component suitable for personal branding or corporate profiles.

3. Objectives

- Design an engaging, user-friendly digital business card interface.
- Use pure HTML and CSS to create a flip animation effect.
- Ensure responsive design for different screen sizes.
- Apply modern UI principles for clean aesthetics.
- Integrate social media links with interactive icons.

4. Scope of the Project

- Focused solely on front-end design and animation.
- No JavaScript or server-side integration.
- Designed for desktop, tablet, and mobile screens.
- Uses only open-source tools and code.
- Suitable for personal branding, portfolios, or corporate networking.

5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Structure and content
CSS3	Styling, layout, animations
Font Awesome	Icons for contact and social media
Google Fonts	Typography
VS Code	Code editor
Chrome DevTools	Testing and debugging

6. HTML Structure Overview

- Semantic HTML tags used: <header>, <section>, <div>, <footer>.
- Card divided into front (profile and contact info) and back (logo) sides.
- Social media links implemented using <a> tags with Font Awesome icons.
- Used an <input type="checkbox"> and <label> technique to trigger the flip effect.

7. CSS Styling Strategy

- External CSS file (style.css) for all styles.
- Organized with clear comments and sections.
- Techniques used:
 - Flexbox for layout alignment.
 - 3D transforms & transitions for the flip effect.



- Media Queries for responsiveness.
- Hover effects for interactive social icons.
- Color palette chosen for a professional and modern feel.

8. Key Features

Feature	Description
Flip Animation	Smooth 3D flip effect between front and back
Responsive Design	Adapts to various screen sizes
Social Media Links	Clickable icons linking to external profiles
Minimalist Layout	Clean, modern design with good spacing
Accessibility	Clear text, icons with titles for better UX

9. Challenges Faced & Solutions

Challenge	Solution
Challenge Solution Flip animation not smooth	Used transform-style: preserve-3d and optimized transition duration
Text overlapping on small screens	Shifted to Flexbox and Grid and media queries to adjust font size and layout
Icon alignment issues	Used Flexbox for consistent spacing

10. Outcome

- Created a professional, animated business card website using only HTML and CSS.
- Learned practical application of CSS 3D transforms and responsive layouts.
- Achieved a visually engaging result suitable for real-world use.

11. Future Enhancements

- Add JavaScript for enhanced interactivity (e.g., auto-flip, animations on hover).
- Implement a theme switcher (light/dark mode).
- Add QR code linking to personal portfolio.
- Make it editable via a form for quick updates.



12. Sample Code

```
body {  
  margin:0;  
  padding:0;  
  display:flex;  
  justify-content:center;  
  align-items:center;  
  height:100vh;  
  font-family:'Montserrat',sans-serif;  
  background:linear-gradient(135deg,#0f2027,#203a43,#2c5364);  
  color:white;  
}  
  
#flip-toggle {  
  display:none;  
}  
  
.overlay {  
  position:fixed;  
  inset:0;  
  z-index:1;  
  cursor:pointer;  
}
```

This block styles the entire page to have a centered layout, gradient background, and clean modern typography.

13. Screenshots of Final Output



Desktop View



Mobile View



14. Conclusion

The Business Card Flip project successfully demonstrates the use of HTML and CSS to create a modern, interactive UI element without relying on JavaScript. This project enhanced my understanding of 3D transformations, responsive design principles, and effective UI/UX styling. It is a practical example of how front-end development can replace traditional physical materials with creative, digital alternatives.

15. References

- L&T LMS : <https://learn.lntedutech.com/Landing/MyCourse>
- [Font Awesome](#) – Icons
- Google Fonts – Typography
- W3Schools – HTML & CSS reference