

Front-End UI/UX Mini Project Project Submission

Project Title:

Weather Info Card UI

Submitted By:

Aaron V Shibu (2462002)

Team Members:

Alan (2462021)

Albert (2462024)

College Email ID:

aaron.v@btech.christuniversity.in

alan.j@btech.christuniversity.in

albert.b@btech.christuniversity.in

Course:

UI/UX Design Fundamentals

Instructor Name:

Ms. Nagaveena

Institution:

Christ University, Kengeri Campus, Bangalore

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Abstract

This project involves designing a responsive weather information card using pure HTML and CSS. The card displays essential weather details such as temperature, condition, city, and location in an aesthetically pleasing format. The goal was to create a visually appealing, user-friendly, and responsive weather card interface without using JavaScript or external frameworks. Core technologies include HTML5 for structure and CSS3 for styling and responsiveness. The final outcome is a fully responsive weather card that adapts to different devices while maintaining clean design and clear visual hierarchy, making it suitable for weather dashboard integration or standalone use.

Objectives

- Create an interactive weather-themed UI using pure HTML and CSS.
- Implement icons and temperature info with a clean layout.
- Ensure card responsiveness across devices.

Scope of the Project

- Focused exclusively on front-end UI development.
- No JavaScript or API integration.
- Optimized for desktop, tablet, and mobile screens.
- Uses open-source icons and assets.
- Adheres to modern UI principles and responsive design practices.

Tools & Technologies Used

Tool / Technology	Purpose
HTML5	Structure and semantic markup
CSS3	Styling, layout, and responsiveness
VS Code	Code editor
Chrome DevTools	Testing and debugging

HTML Structure Overview

- Semantic tags like `<div>` and `<section>` for card layout.
- Structured into elements for city, temperature, weather icon, and description.
- Organized for scalability and readability.

CSS Styling Strategy

- External stylesheet (`style.css`) for clean code separation.
- Flexbox for layout and alignment.
- Box shadows, rounded corners, and responsive typography.
- Media queries for device adaptability.

Key Features

Feature	Description
Responsive Design	Adapts to mobile, tablet, and desktop views
Weather-Themed Icons	Uses SVG or image-based icons for clarity
Clean Layout	Simple, modern card interface
Visual Hierarchy	Emphasizes temperature and city name

Challenges Faced & Solutions

Challenge	Solution
Maintaining consistent icon alignment	Used Flexbox centering
Text overflow in smaller screens	Applied responsive font scaling
Card shadow not visible in dark themes	Adjusted shadow opacity and blur radius

Outcome

Achieved a clean and visually appealing card-based weather UI. Ensured full responsiveness without JavaScript. Improved understanding of Flexbox and visual hierarchy in UI design.

Future Enhancements

- Integrate real-time weather data using APIs.
- Add animations for icon transitions.
- Implement light/dark theme toggling.

Sample Code

```
<div class="weather-card">
  <h2 class="city">New York</h2>
  
  <p class="temperature">25°C</p>
  <p class="description">Sunny</p>
</div>
```

Screenshots





Conclusion

The Weather Info Card UI project strengthened my skills in building clean, responsive layouts using HTML and CSS. I gained practical insights into icon usage, spacing, and mobile-first design while ensuring visual hierarchy. The project provided hands-on experience in structuring semantic HTML and applying advanced CSS techniques for responsiveness.

References

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