Weather Dashboard

Project Overview

Objective: The objective of this project was to create a dynamic Weather Dashboard that displays real-time weather information for different cities, offering users an engaging and interactive experience. The dashboard includes features such as a day/night mode toggle, seasonal backgrounds, and a responsive design.

Key Features Implemented:

1. **Responsive Layout:**
    - Utilized Bootstrap for a mobile-friendly design that adjusts seamlessly across various screen sizes.
2. **Day/Night Mode Toggle:**
    - Implemented a toggle switch that allows users to switch between day and night modes. The dashboard's colors and backgrounds change dynamically based on the selected mode.
3. **Dynamic Backgrounds:**
    - Background images change according to the current weather conditions (e.g., sunny, rainy, snowy) and the time of day, enhancing the visual experience.
4. **City Weather Cards:**
    - Each city is represented with a card that displays the current weather conditions, temperature, and a corresponding image for easy recognition.
5. **Weather Slider:**

    - Incorporated a carousel slider to allow users to navigate through different city weather cards, providing an interactive way to view multiple locations.

6. **Custom Toggle Switch Design:**
    - Styled the toggle switch to resemble a modern on/off switch, improving the user interface and experience.
7. **JavaScript Interactivity:**
    - Utilized JavaScript to handle event listeners for the toggle switch, dynamically updating the page elements and background based on user interaction.

Technologies Used:

- **HTML5**: For the basic structure of the dashboard.
- **CSS3**: For styling, enhanced with Bootstrap for responsive design.
- **JavaScript**: For interactivity, managing dynamic updates, and handling the toggle functionality.

Project Structure:

- **index.html**: Contains the structure of the Weather Dashboard.
- **style.css**: Holds all custom styling for the dashboard elements and responsive design.
- **script.js**: Manages the interactive features of the dashboard, including the toggle switch and dynamic content updates.

Conclusion: This Weather Dashboard project successfully showcases the ability to combine HTML, CSS, and JavaScript to create a functional and visually appealing web application. Future enhancements could include integrating a weather API for real-time data and additional features to improve user engagement.