React App for Review Sentiment Analysis

[Codepen Link](#)

[CodeSandbox Link](#)

[GitHub Repo Link](#)

Tasks Given and Completed

Introduction

This document provides a summary of the tasks assigned and completed during the project. The tasks involve handling and displaying reviews data using React and Tailwind CSS, and addressing issues encountered while working with Codepen.

Tasks Overview

The project began with setting up a React application on Codepen.io and creating a **ReviewList** component to fetch and display reviews from the provided **reviewsData.json** file. The next step involved implementing a **ReviewHighlighter** component to highlight sentences in reviews based on sentiment, using the **analytics** property to determine sentences and their corresponding sentiments, and applying colors to these sentences.

A **Tooltip** component was then created to display sentiment topics on hovering over highlighted sentences. This component successfully extracted and displayed the sentiment topics from the analytics data.

In terms of design and styling, the UI was developed to match provided screenshots, ensuring a clean and user-friendly interface. CSS styles were applied using Tailwind CSS for proper formatting and alignment, and the provided highlight colors were used for different sentiments.

Additionally, the optional task of using `highlight_indices` to highlight sentences using specific start and end indices was completed as an additional challenge.

Challenges and Solutions

- **Codepen Limitations**: Encountered issues with uploading files and using npm packages.
  - **Solution**: Shifted the project to CodeSandbox and GitHub Pages for better management of project dependencies and file uploads. Despite these challenges, I managed to complete the project on Codepen, demonstrating the initial setup and all the functionalities.
- **Styling Issues**: Faced challenges in achieving the desired styles for certain components.
  - **Solution**: Used Tailwind CSS for consistent and responsive styling. Customized ReactTooltip styles directly to achieve the required appearance.

Conclusion

All assigned tasks were completed successfully, despite the initial challenges with the development environment. The alternative solution using CodeSandbox and GitHub Pages proved effective in managing project dependencies and hosting. The project now features a well-structured layout with dynamically highlighted content and customizable tooltips.