TODO Application – using Typescript

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Approach: For this technical assessment, I decided to create a Todo app using TypeScript. My approach was to create a simple yet functional app that allows users to add, delete, and update their tasks. I started by creating a basic HTML layout and then used TypeScript to add functionality to the app.

To create the app, I used Visual Studio Code as my development environment and TypeScript as my programming language. I also used npm to manage my project dependencies and Bootstrap for styling the app. Bootstrap was particularly useful as it allowed me to easily add icons and buttons to the app.

The app uses static typing and interfaces extensively. I created an interface for the Todo item and used it throughout the app to ensure that the data types were consistent. I also used classes to encapsulate the app's functionality and to make the code more modular.

Challenges: One of the main challenges I faced was working with TypeScript's strict typing system. While it's great for catching errors early, it can be time-consuming to ensure that all data types are consistent. However, I found that using interfaces helped to simplify this process.

Another challenge was making the app user-friendly and intuitive. I spent some time designing the app's layout to ensure that it was easy to use and understand. I also added proper validation to ensure that users could not add empty tasks or delete tasks by mistake.

Overall, I found this technical assessment to be a great learning experience. TypeScript is a powerful language that can help to make code more robust and maintainable. By using TypeScript and Bootstrap, I was able to create a functional Todo app that meets all of the requirements of the assessment.