For this project, you will be using the Star Wars API ([https://swapi.dev/](https://mailtrack.io/trace/link/be244b715d8a6c3a298ef6346cc4326e3a127f7d?url=https%3A%2F%2Fswapi.dev%2F&userId=1204893&signature=eb82c682a88cab8b)) to build a simple React website. Please follow the guidelines below:

Objective:

Create a React application that displays two separate lists: one for Star Wars films and another for Star Wars characters. Each list should support selecting an individual item to display more details about it.

Requirements:

• Fetch and display a list of Star Wars films from the API ([https://swapi.dev/api/films/](https://mailtrack.io/trace/link/11d1918880af875bb184e4004020a2b5458908fd?url=https%3A%2F%2Fswapi.dev%2Fapi%2Ffilms%2F&userId=1204893&signature=461043015d89b47b)).

• Fetch and display a list of Star Wars characters from the API ([https://swapi.dev/api/people/](https://mailtrack.io/trace/link/f41ff4cb8b061d64ee696edc51df9c5d497f5740?url=https%3A%2F%2Fswapi.dev%2Fapi%2Fpeople%2F&userId=1204893&signature=9acfca68bad52abc)).

• Implement pagination or infinite scrolling for the lists, as the API provides data in a paginated format.

• Allow users to select a film or character from the lists to view more details.

• Implement routing to navigate to a separate full page displaying the selected item's details.

• Ensure the application is responsive and has a user-friendly design.

React Bonus Points (optional):

• Write the application with Typescript

• Allow users to search for films or characters by name.

• Add unit tests for the key components of your application.

NestJS Bonus Points (optional):

• Create a NestJS API project that acts as a proxy for fetching data from the Star Wars API ([https://swapi.dev/](https://mailtrack.io/trace/link/f09b39540751de0adb8cdcbdb1fa0746fe7fa810?url=https%3A%2F%2Fswapi.dev%2F&userId=1204893&signature=eed5a56b3f30a8b2)).

• Modify the React application to fetch data from your NestJS API project instead of directly from the Star Wars API.

• Add caching to the NestJS API project to reduce the number of calls to the Star Wars API.

• Implement error handling and validation in the NestJS API project.