

TokenFolio Assignment

UseCase:

Using any third-party API of your choosing, you will have to create a webapp (using React) that allows you to search for and select any of the top 50 cryptocurrencies (ranked by market cap) and display the current price (by default in USD) along with other basic information.

Approach:

To achieve the above usecase, we will be considering the following tech modules:

- ReactJS (18.*) - for View
- NodeJS (20.*) - for Infra
- Axios (1.7.8) - for API calls
- AntD (5.22.3) - for Responsive Layout
- SCSS - for Css preprocessing
- SWR (2.2.5) - for API data caching
- Redux - for state management (for huge data scenario's.)
- TypeScript - for data type safety
- RTL - React Testing Library for Unit Testing

Solutioning

Setup

We can create a Boiler plate with Create React App along with Typescript template.

TypeScript

TypeScript serves as a superset of JavaScript. TypeScript allows you to catch errors more effectively and write more maintainable and robust code, perfect for large-scale projects.

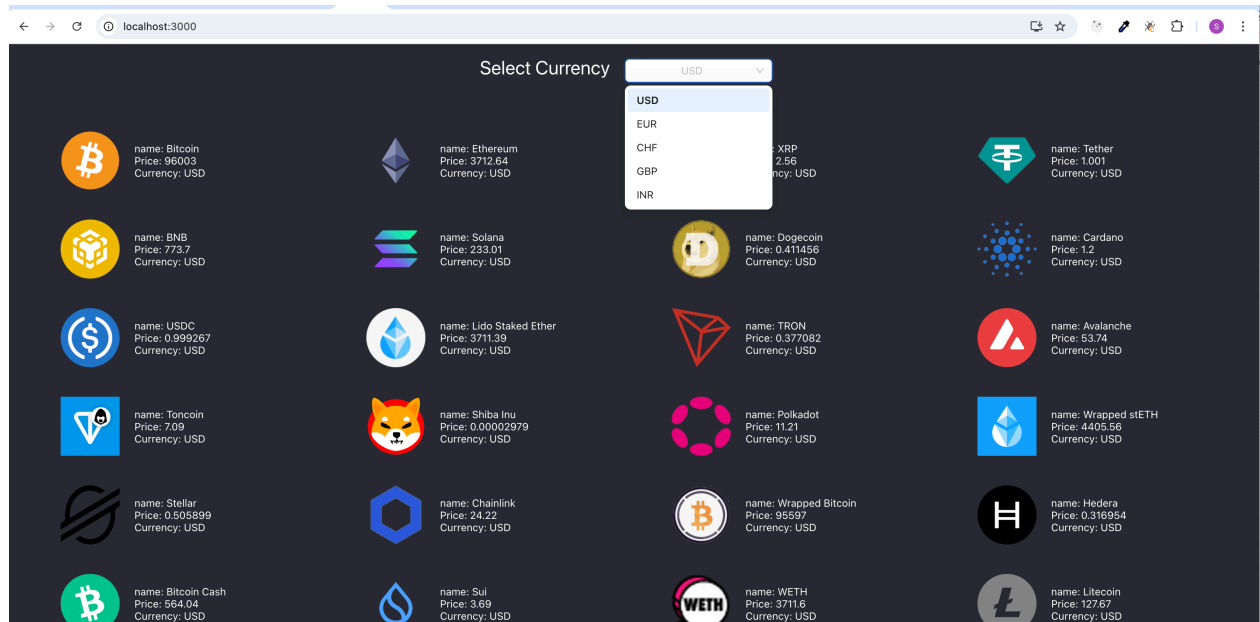
AntD

AntD is an enterprise-class UI design language and React UI library with a set of high-quality React components. It can support upto 24 column layout that helps in creating more flexible responsive views.

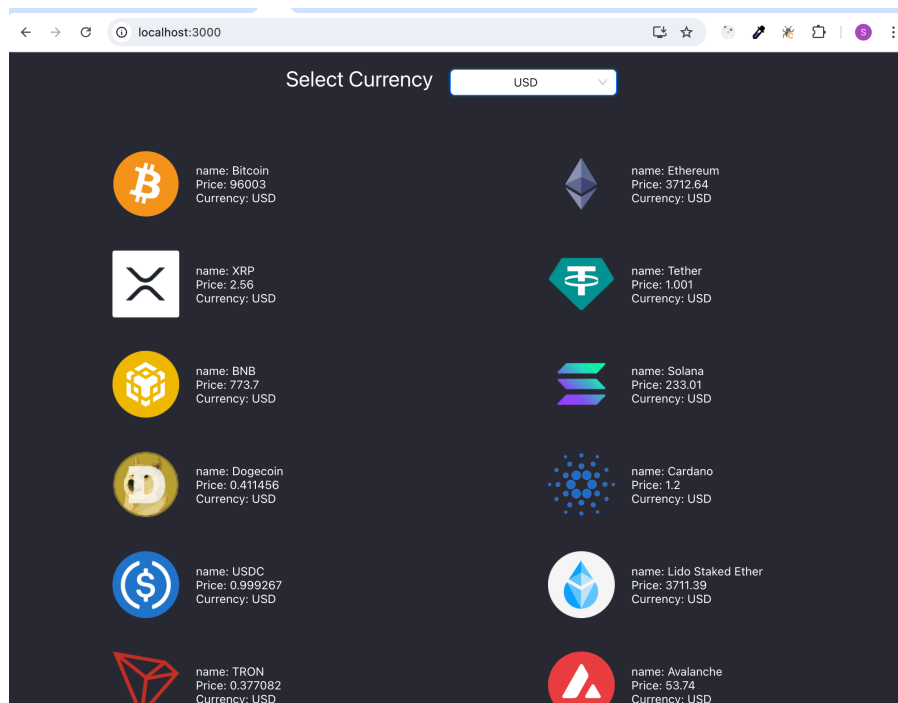
SWR

SWR (Stale While Revalidate) is a strategy to first return the data from cache, then send the fetch request, and finally come with the up-to-date data. UI rendering will be faster with SWR caching.

Desktop Page



Tablet View:



Mobile View

