

To implement website( i choose website because it can easily access through browser on many devices) .For this system, we have to separate database (i choose postgres because it can handle and store large consistent data efficiently in time complexity) and backend / frontend out of together.

For backend i have to developed Restful api endpoints to query data from third party (json) and modify in to text i.e. price aggregator services (i choose coingecko because it contain realtime and update price data to transfer through api to our backend and passing through frontend that interact with users to send back price ) to build an exchange which i choose decentralized exchange because it can secure data privately on only sender and receiver  
As model product .

For code i choose MVC (model-view-controller) pattern because it easiest to implement as prototype to reduce time to do

NOTE we have to error handling for data type and data structure such as integer, float and json  
To increase data consistency while we connect together however we also have to add load balance to keep it accuracy and realtime

Note: tech stack

Frontend Next.js SCSS Typescript alpine.js vercel

Backend Node.js express cloudflare AWS serverless

Database postgres s3 rds

Devops jenkins docker