TypeScript

Typescript is strongly typed language, built on java script.

There are 3 parts

1. Fundamentals - basic types , interface, classes, generics
2. React – typescript + react
3. Store – modern store application

Javascript is loosely typed language

No need to declare type of language when we create it

We will get the error at the runtime, managebe if few lines of code

Bigger the code, more challenging it will be to spot technically innocent bug

Typescript = javascript + static typing

All the JS code is also valid typescript

Typescript – super set of javascript

Help to catch potential bugs, without the need for 10,000 console.logs, because of the strict types

We write app in .ts or .esx( react) , there will be a transpile or compile steps, where all typescript convert to Javscript code , and then vanilla JS can run anywhere

Now JS code can run anywhere

Typescript has learning curve and it involves but, we can fix many errors easily,

Typescript playground ,

Good for learning typescript syntax by equally seeing JS syntax

"build": "tsc && vite build",

Typescript is dev dependency,

Before project build first compile to js code

All the typescript code will tranpile to good old js code