

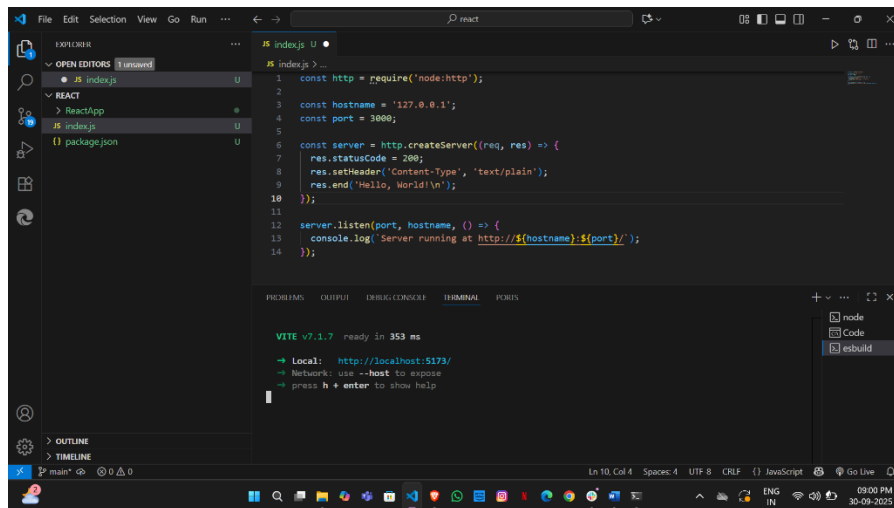
NAVYA NARAYAN PANICKER

WEEK 2

DAY 1: 29/09/25 [FRIDAY]

TASK 1: Scaffold app; setup basic folder structure; create homepage with MUI Typography and AppBar.

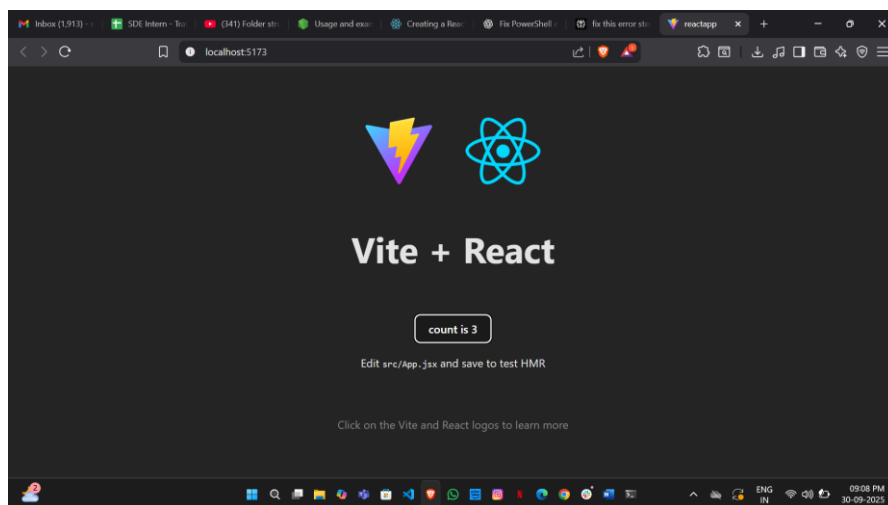
- React with vite set up:



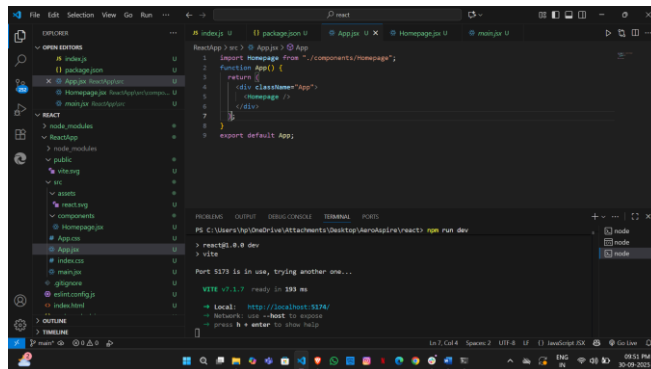
The screenshot shows the VS Code editor with a file explorer on the left containing 'index.js' and 'package.json'. The main editor displays the content of 'index.js', which is a simple HTTP server using the 'http' module. The code sets a hostname to '127.0.0.1' and a port to '3000'. It creates a server with a single route that responds with 'Hello, World!'. The terminal at the bottom shows the command 'vite' being executed, resulting in 'VITE v7.1.7 ready in 353 ms' and the local URL 'http://localhost:5173/'.

```
1 const http = require('node:http');
2
3 const hostname = '127.0.0.1';
4 const port = 3000;
5
6 const server = http.createServer((req, res) => {
7   res.statusCode = 200;
8   res.setHeader('Content-Type', 'text/plain');
9   res.end('Hello, World!\n');
10 });
11
12 server.listen(port, hostname, () => {
13   console.log(`Server running at http://${hostname}:${port}/`);
14 });
```

VITE v7.1.7 ready in 353 ms  
→ Local: http://localhost:5173/  
→ Network: use --host to expose  
→ press h + enter to show help



My first component:



#### QUESTIONS:

1. What files/folders does Vite produce and what is the build / dev flow?  
It produces many folders like src, main, and components you want to create while making a webpage.  
So when we build whatever changes are made in the source is immediately reflected on the webpage and stores the results in the dest/ folder.
2. What is bundling / hot reloading. How does Vite help speed up development?  
Bundling is the process of gathering multiple javascript files so that the loading is efficient.  
Hot reloading is t\when u don't have to reload the entire page and whatever changes are done it will immediately update and correct the changes without actually reloading it.

It starts the server instantly using hot reloading. It reduces time and is efficient ass the developers see the changes instantly.

3. Describe how React components are structured: what parent/child relationship, what props?

It is structured in a hierarchical manner.

The parent passes the data to the child using props.

It will organise and manage the flow of the data.

Props are properties that the parent passes to the child, that mans the child cannot do any changes but can use the properties.