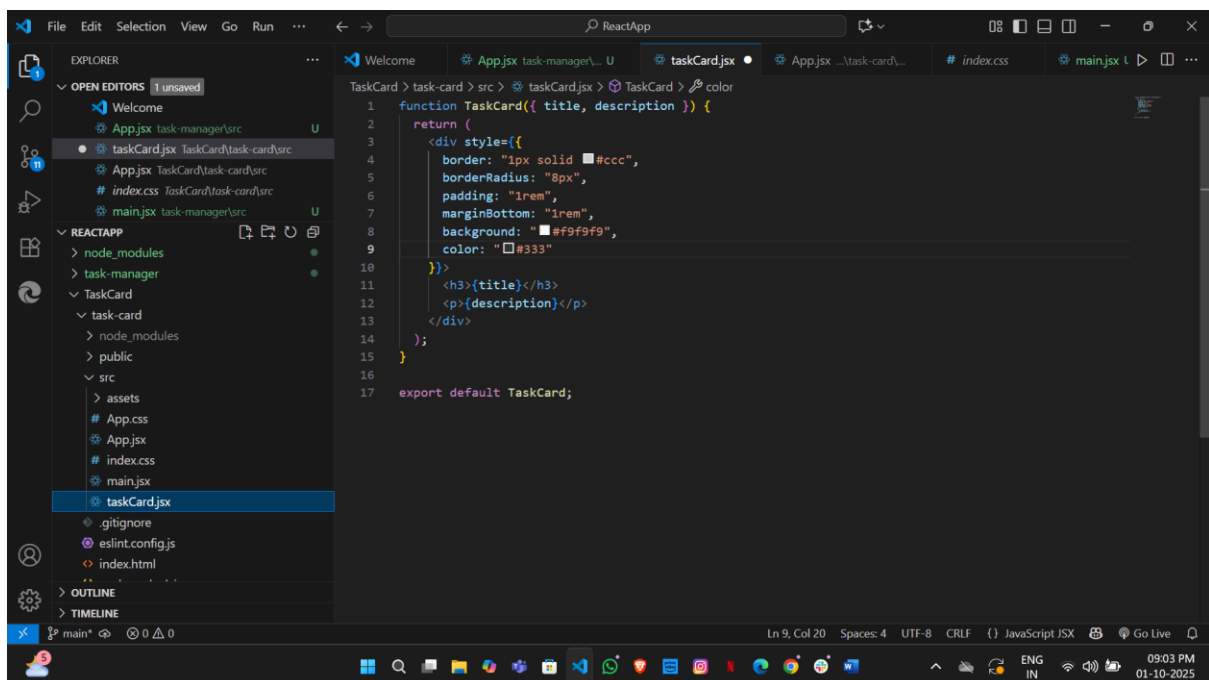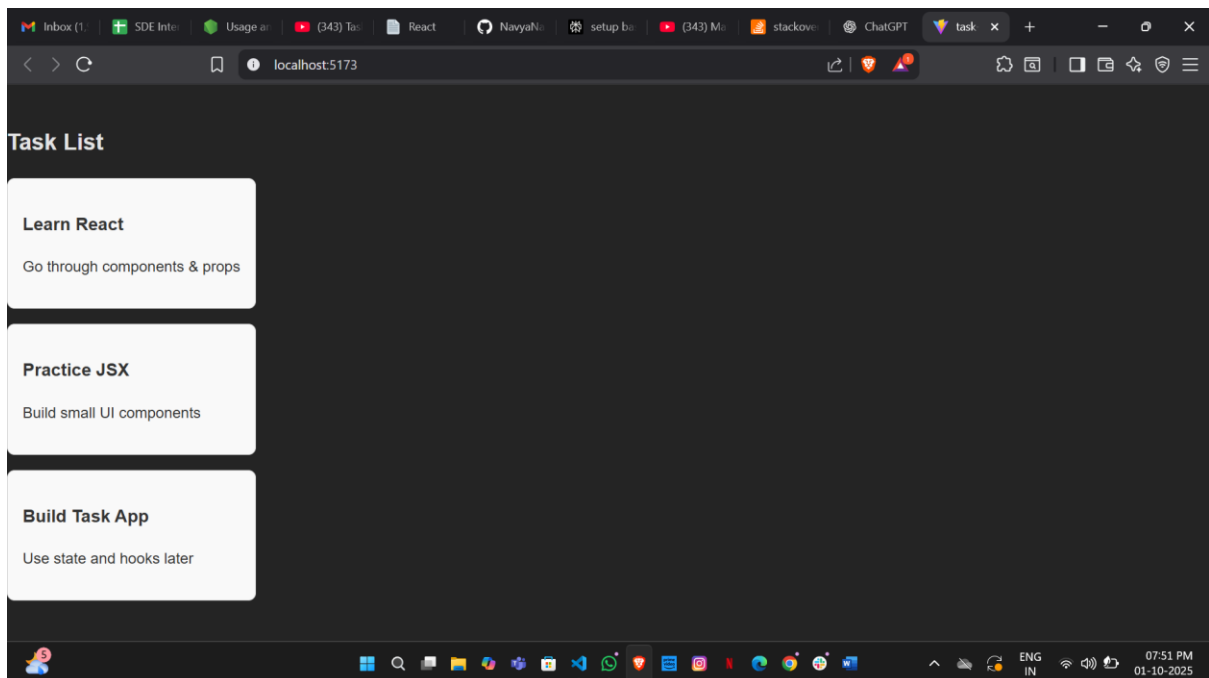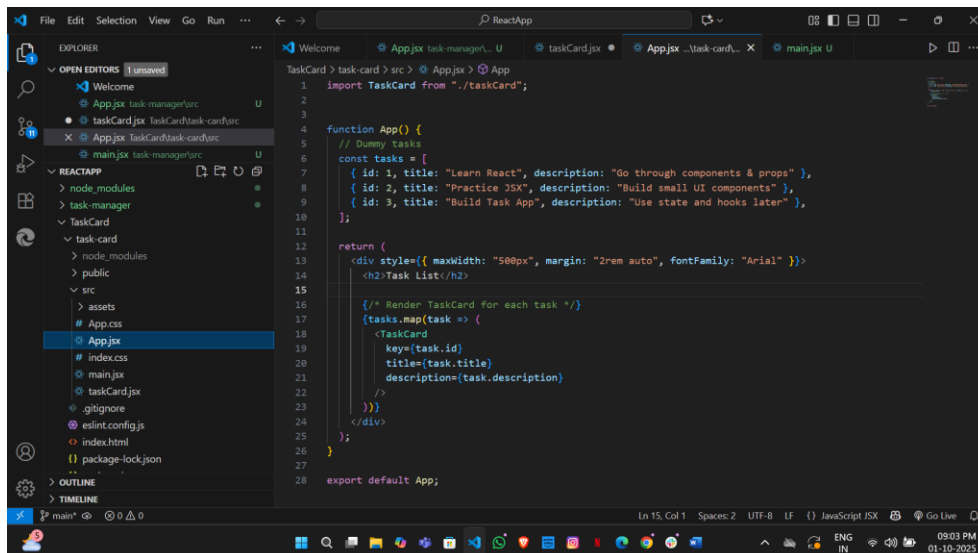NAVYA NARAYAN PANICKER

WEEK 2

DAY2: 30/09/25[TUESDAY]

TASK 2: TaskCard component; render list of dummy tasks via props

QUESTIONS/REFLECTIONS:

1. Explain how props are passed from parent to child; what happens if props change?
So the parent includes the child in jsx file
The child will accept these values as in parameters and the child can use them…it Cnnot alter it but can access it.

When the parent alters the props it will re render and the changes are saved and the child can use them accordingly.
The childs UI will update according to the changes done.

2. What is the virtual DOM in React and how does re-render happen when props change?

Virtual DOM is the in memory representation of an actual DOM.

Its does not actually exist like the word says its virtual and it is lightweight.

- First the react will build a virtual DOM representing the UI
- When the parent passes new props to the child, it will create a new dom for the changes.
- So react will compare both the new dom and the old one to see what changes were made.
- Then it will change only those parts of the real dom . this will make it fast and efficient .

3. How to avoid unnecessary re-renders?
- Use react.memo for functional components: so basically it will re render only if the contents actual change
- Avoid defining functions or objects directly under jsx as it causes unnecessary re renders.
- Use developer tool to see which file is re rendering and why its happening.