Parallel Routes in Next.js

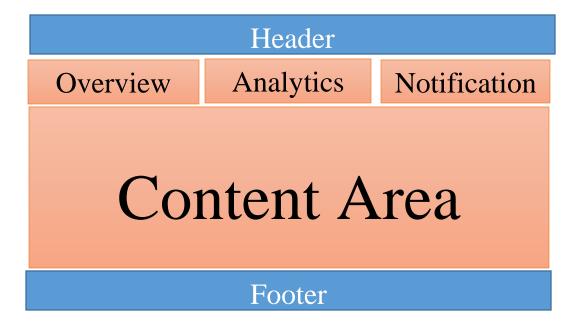
Parallel Routes in Next.js:

In Next.js, parallel routes refer to a feature that allows for the simultaneous rendering of multiple pages within the same layout. This means you can display different pages or components together, without the need for separate page navigations.

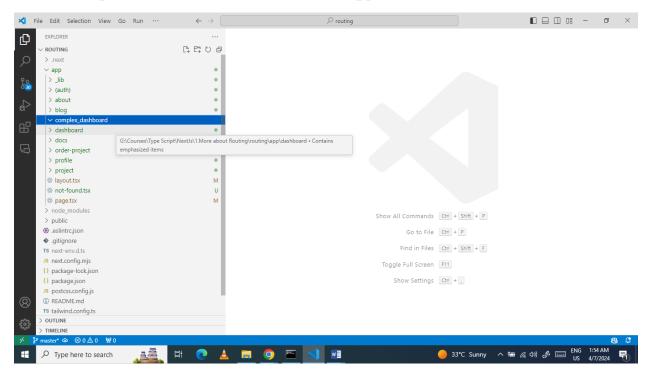
Parallel routes are implemented using a concept called slots. Slots help structure content in a modular fashion, allowing you to define distinct sections of your application. Each slot corresponds to a specific route or component, and they are organized within the same layout.

This feature is particularly useful when building complex user interfaces where multiple pieces of information need to be displayed together. It improves code organization and simplifies development by allowing different sections of the application to be developed independently.

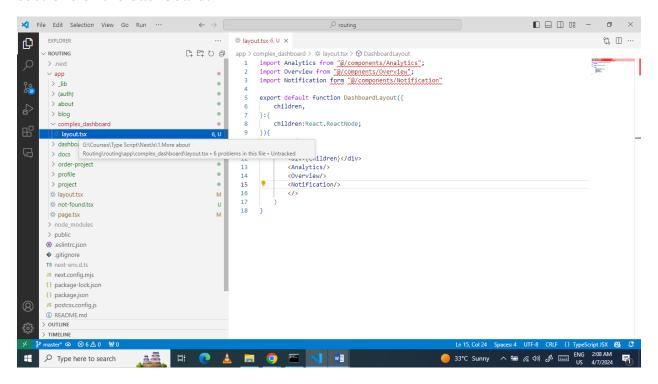
Overall, parallel routes in Next.js offer a way to create dynamic and interactive user interfaces by efficiently managing the rendering of multiple pages or components within a single layout. Below is the dashboard layout:



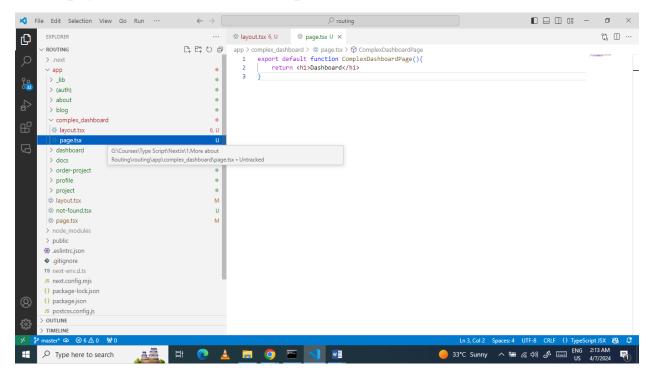
Create complex_dashboard folder inside the app folder.



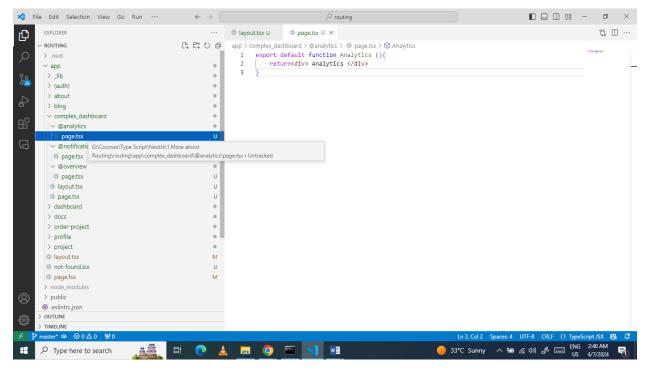
Inside the 'complex_dashboard' folder, create a 'layout.tsx' file using simple components. It might look something like this: three components for the three sections of the dashboard.

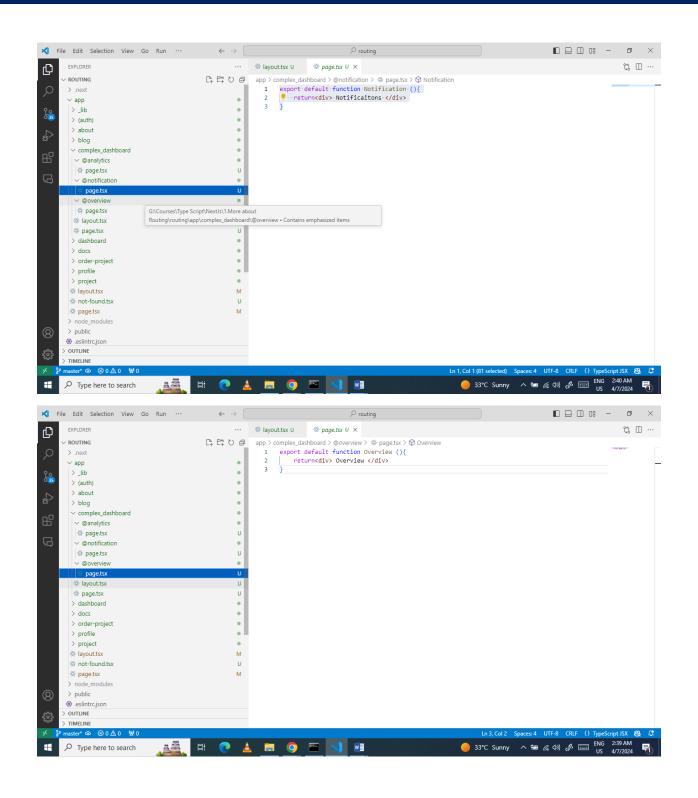


Create page.tsx file inside folder complex_dashboard

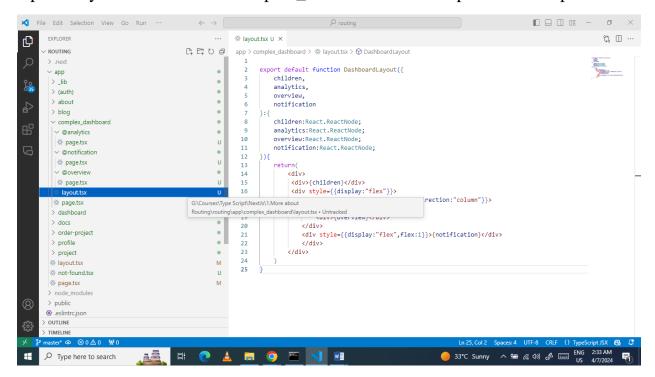


Inside the 'complex_dashboard' folder, create three folders named 'notification,' 'overview,' and 'analytics,' each starting with '@' (e.g., '@notification,' '@overview,' and '@analytics'). In each folder, create a 'page.tsx' file using simple components.

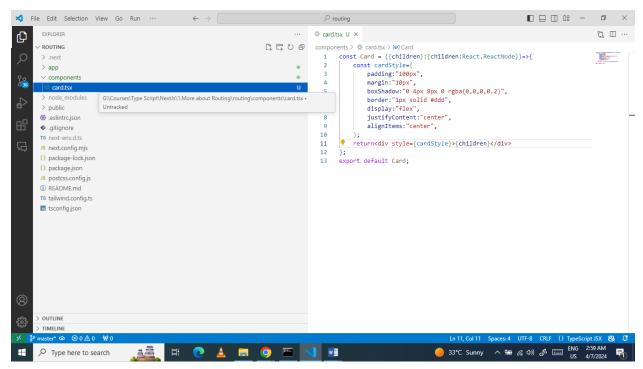




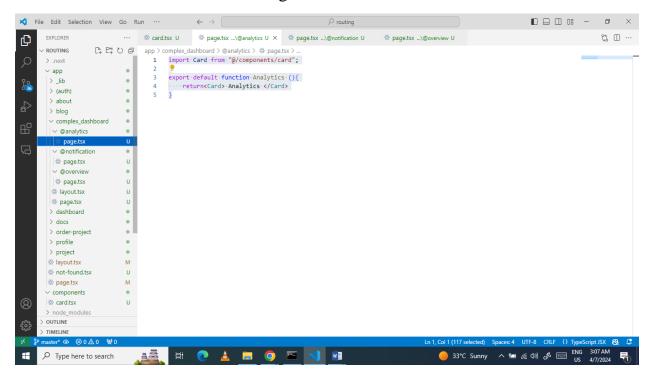
Update layout.tsx file inside complex_dashboard folder as per below snapshot

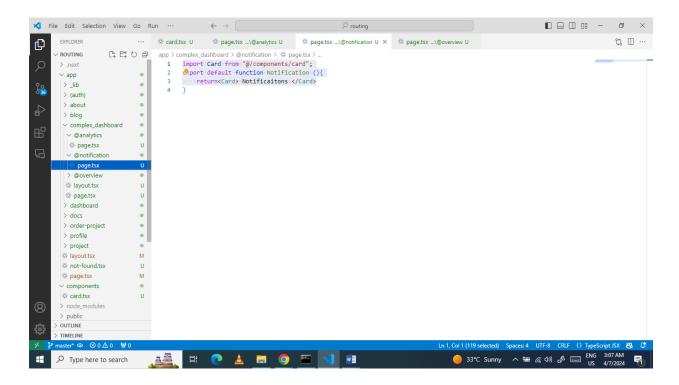


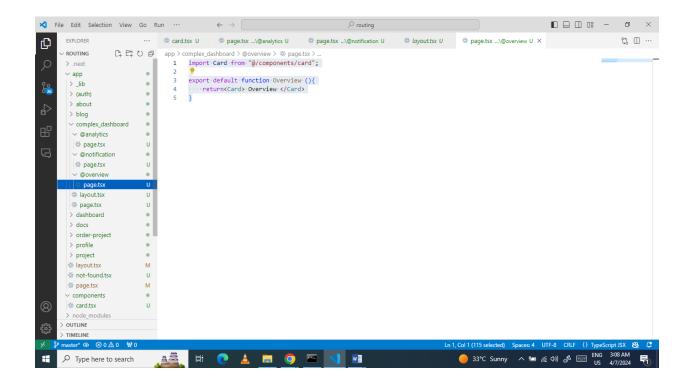
In the "src" (main folder, in my case "Routing") directory, create a new folder named "components." Inside the "components" folder, create a "card.tsx" file.



Now, replace the `<div>` tag in each file one by one with the Card component. See below screenshots for understanding.







"Go to the browser and navigate to http://localhost:3000/complex_dashboard to see the dashboard."

