Programmatic Navigation in Next.js

Navigation:

Navigation is simply moving from one page to another within a website or web application. Think of it like traveling from one place to another on the internet.

Navigation refers to the process of moving between different pages or routes within a web application. In the context of Next.js, navigation typically involves moving between different pages within a Next.js application, which follows file-based routing

File based routing:

In Next.js, the structure of your project's folders and files determines the URLs of your web pages. Each page typically corresponds to a specific file in your project. So, when you visit a URL, Next.js looks for the corresponding file to display the page.

Users navigate through a web application either by manually entering URLs in the browser's address bar, clicking on UI elements like links, or through programmatic navigation, such as after completing an action.

Programmatic Navigation:

Programmatic navigation involves using code to navigate between pages or routes within a web application. This can be triggered by user actions, such as clicking a button or submitting a form, or by application logic. In Next.js, programmatic navigation can be achieved using the built-in router provided by the Next.js framework.

UI Elements for Navigation:

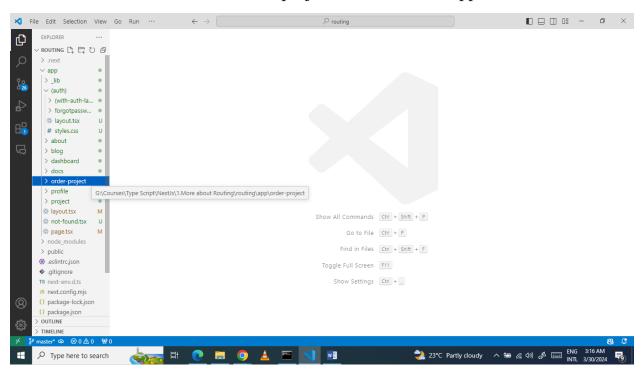
Instead of typing URLs, users often navigate through a website by clicking on buttons or links. These are called UI elements. Clicking on them directs users to different pages or sections of the website.

UI Navigation:

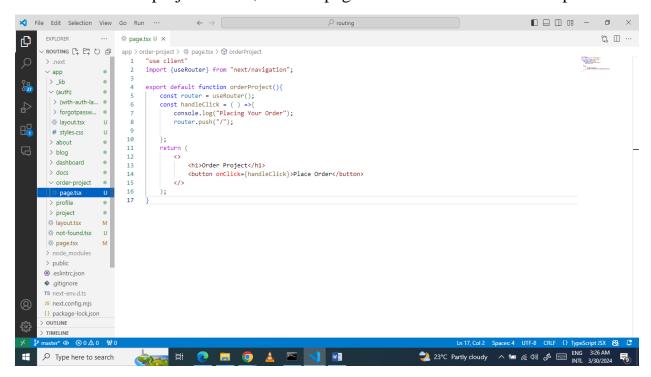
This refers to the process of moving from one page to another within a website programmatically, typically triggered by user interactions with UI elements. For instance, if you're on the home page of a website and you click on a "Place Order" button, you expect to be taken to the checkout page.

"Programmatic Navigation in Next.js: Step-by-Step Guide with Screenshots"

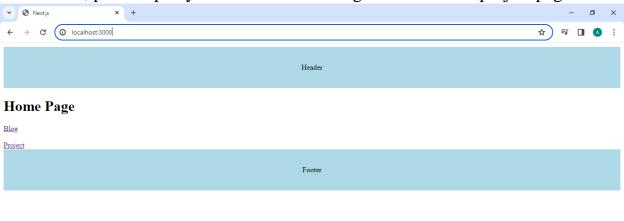
"Please create an 'order-project' file inside the 'app' folder."



"Inside the order-project folder, create a page.tsx file and add React components."

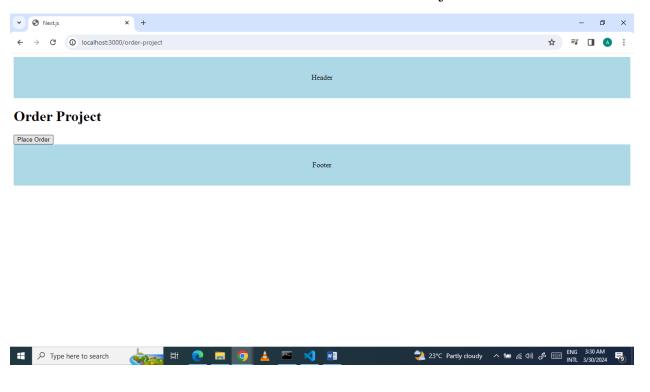


"Now, please open your browser and navigate to the order project page."

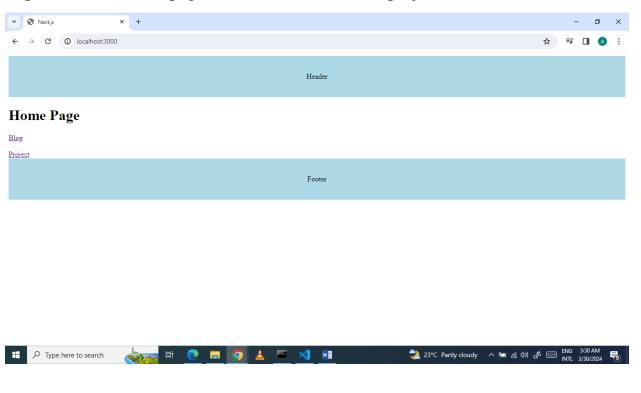




"Navigate to the order-project page after navigating to the order page. You will see the **Place Order** button below labeled 'Order Project'."



By clicking on the "Place Order" button, you will navigate to the Home Page as per our code in the page.tsx file inside the order-project folder.



"The above discussion about programmatic navigation in Next.js, which involves using code to move between pages or routes within a web application, explains the concept of navigation, file-based routing, programmatic navigation, and UI elements for navigation. Programmatic navigation is achieved through user interactions or application logic and is facilitated by the Next.js framework's builtin router. Additionally, it provides step-by-step guidelines for implementing programmatic navigation in a Next.js application, including creating files and components, and navigating between pages."