

Next.js Framework Overview

Understanding Next.js

Next.js Framework

- Next.js is a framework built on top of JavaScript.
- React is a JavaScript library created by Facebook.
- A library can be used in many different places for specific tasks.
- A framework provides everything you need in one place for building projects.

Client-Side Rendering in React

- React uses client-side rendering (CSR), where the browser builds and displays content.
- The user's device does the rendering work.

What Can You Do with Next.js?

1. Create Templates and Brand Designs

- Next.js allows you to build websites with reusable templates for brands.

2. Prerequisites to Start

- You need to know about UI and UX design before starting:
 - * UI (User Interface): The visible part of the website.
 - * UX (User Experience): How easy and enjoyable the website is to use.
 - * Tools:
 - Figma: A tool for creating website designs and prototypes.
 - ThemeForest: A platform to buy and sell website themes.

Core Features of Next.js

- App Router: Manages different pages of the website.
- SSR (Server-Side Rendering): Prepares content on the server before sending it to the user.
- CSR (Client-Side Rendering): The browser builds and shows the content on the user's side.
- SSG (Static-Site Generation): Creates static pages before the website goes live.
- DSG (Dynamic-Site Generation): Pages are created dynamically based on user requests.

You also need to learn React Hooks to manage data and update the UI without refreshing the page.

What Does an Interface Mean?

- An interface is a middleman in programming. It helps one part of the code work with others.

Important Commands:

- `npx create-next-app .` -> This command creates a new Next.js project.
- `npm run dev` -> Starts the project for development.