**Nextjs**

Nextjs is open-source react framework developed by vercel.it is maintained and supported by the community and vercel.

The need for nextjs arises from its features and capabilities that make it easier to build react application with additional benefits.

Nextjs 13.4 is a foundational release marking stability for the app router

App Router

React Server Component

Nested Routes & Layouts

Simplified Data Fetching

Streaming & Suspense

Built-in SEO Support

Turbopack in Beta phase

Server Action in alpha phase

**create-next-app** cli tool

create-next-app is a CLI tool that enables us to quickly start building a next js application.

We can create a new project interactively by running

>npx create-next-app@latest

>yarn create next-app

>pnpm create next-app

>bunx create-next-app

We will then be asked

What is your project named? my-app

Would you like to use TypeScript? No / Yes

Would you like to use ESLint? No / Yes

Would you like to use Tailwind CSS? No / Yes

Would you like to use `src/` directory? No / Yes

Would you like to use App Router? (recommended) No / Yes

Would you like to customize the default import alias (@/\*)? No / Yes

**Why create-next-app**

Create-next-app allow us to create a new nextjs app within the seconds.it is officially maintained by the creators of Nextjs, and includes a number benefits

**Interactive Experience**

Running **npx create-next-app@latest** launches interactive experience that guides us through setting up a project.

**Zero Dependencies**

Initializing a project is as quick as one second. Create next app has zero dependencies.

**Offline support**

create next app will automatically detect if we are offline and bootstrap our project using our local package cache.

**Support for**

create next app can bootstrap our application using example from the nextjs example collection or any public GitHub repository.

**Data fetching**

Data fetching in nextjs are

1. On the server, with fetch
2. On the server, with third-party libraries
3. On the client, via a Route Handler
4. On the client, with third-party libraries
5. On the server, with fetch

React recently introduce support for async/await in Server Components. We can now write sever component using standard javascript await syntax by defining our component as async function