Next.js Topics and Questions

Server-Side Rendering (SSR) and Static Site Generation (SSG)

Theory

- What is getServerSideProps (SSR) for fetching data at request time?
- What is getStaticProps (SSG) for pre-rendering pages?
- What is getStaticPaths for pre-rendering pages?
- What is the difference between getStaticProps and getServerSideProps?
- Why can't getStaticProps and getServerSideProps be used together?
- · What is Incremental Static Regeneration (ISR)?
- What is the fallback option in getStaticPaths?
- · What are use cases for SSR vs SSG?

Next.js Configuration and Structure

Theory

- What is app.js in Next.js?
- What is _document.js in Next.js?
- What is the difference between _app.js and _document.js?
- What is next.config.js?
- What is the use of the next export command?
- · What is a custom server in Next.js?
- · What is the singleton router in Next.js?

Routing and Navigation

Theory

- · How do you handle redirects in Next.js?
- What is the difference between push and replace in useRouter?

API Routes and Middleware

Theory

- · How to use API routes to build backend logic within Next.js?
- · How to create custom middleware for handling requests in Next.js?
- · What is API caching in Next.js?

Performance and Optimization

Theory

- · What is automatic code splitting in Next.js?
- · How does Next.js optimize images?
- · What is Fast Refresh in Next.js?
- What is AMP (Accelerated Mobile Pages) in Next.js?
- · What are cache-control headers in Next.js?
- · What are static and dynamic imports in Next.js?

Environment Variables

Theory

• What is the use of build-time environment variables in Next.js?

Other Features

Theory

- · What is Preview Mode in Next.js?
- How many ways are there to add CSS to a file in Next.js (e.g., CSS Modules)?

Practical

- · Build a Next.js application.
- Implement getServerSideProps for fetching data.
- Implement getStaticProps and getStaticPaths for pre-rendering.
- · Create a custom middleware for handling requests.
- · Use API routes to build backend logic.
- · Add CSS to a Next.js application using CSS Modules.