

Next.js

Question 1. What is Next.js?

Answer:

Next.js is a React framework used for building production-ready web applications with features like:

- Server-Side Rendering (SSR)
- Static Site Generation (SSG)
- File-based routing
- API routes
- SEO optimization

Question 2. Difference between SSR and CSR?

Answer:

SSR	CSR
Rendered on server	Rendered in browser
Better SEO	Slower initial load
Faster first page	Depends on JS

Question 3. What is file-based routing in Next.js?

Answer:

In Next.js, the pages folder automatically creates routes.

Example:

pages/index.js → /

pages/about.js → /about

pages/blog.js → /blog

Question 4. What is dynamic routing in Next.js?

Answer:

Dynamic routes allow dynamic URL parameters.

Example:

pages/post/[id].js

Question 15. What is Link component in Next.js?

Answer:

Link is used for client-side navigation in Next.js.

Example:

```
import Link from 'next/link';
```

```
<Link href="/about">About</Link>
```

Question 6. What are Environment Variables in Next.js?

Answer:

Environment variables store sensitive information like:

- API keys
- Database URLs
- Secret keys

Stored in:

.env.local

Question 7. How do you protect API routes in Next.js?

Answer:

- Use authentication (Firebase / NextAuth)
- Check session before allowing access
- Validate user token

Question 8. What is getStaticProps?

Answer:

getStaticProps fetches data at build time.

Used for:

- Static websites
- Blog pages
- SEO optimization

Question 9. What is getServerSideProps?

Answer:

getServerSideProps fetches data on every request.

Used when:

- Data changes frequently
- User-specific data is needed

Question 10. Difference between SSG and SSR?

Answer:

SSG

SSR

Build time rendering Request time rendering

Faster

Dynamic

Good for blogs

Good for dashboards
