**NextJS theory**

1. NextJS is a React FRAMEWORK for production(a fullstack framework for React).
2. NextJS solves common problems and makes building React apps easier.
3. NextJS-Key features & Benefits: **Server-side Rendering**: -Automatic page pre-rendering:Great for SEO and inial load; -Blending client-seide and server-side:Fetch data on the server and render finished pages**; FILe-Based** **ROUTING:** -define pages and routes with files and folders instead of code;-Less code, less work, highly unserstandable; **FULLSTACK Capabilities**: - Easily add backend (server-side) code to your Next/React apps; - Storing data, getting data, authentication etc. can be added to your React projects.
4. NextJS allows us to determine WHEN a page should be pre-rendered.
5. File-based Routing instead of Code-based Routing: - Create React component files and let NextJS infer the routes from the folder structure into the special “/pages” folder.
6. With Next js we have page Pre-Rendering before the page is shown to the client. This is good for the SEO
7. Only the initial page is pre-rendered. Any other page accessed after have the same functionality as a React application.

Graphical user interface, application

Description automatically generated

1. Static Generation: -Pre-generate a page (with data prepared on the server-side) during buiold time; -Pages are prepared ahead to time and can be cached by the server / CDN serving the app.