**Week 14**

**14.1 Intro to NextJS**

* Crawlers initially didn’t run JS. They only went through HTML. The initial HTML file doesn’t necessarily has anything. When JS runs, it eventually puts things on DOM. You first get index.html file, then the script.js. This causes SEO issues and Waterfalling.
* NextJS applications cannot be scaled via CDNs. React can be because of caching.
* The root level layout.tsx creates a layout for page.tsx as well as all the internal routes.
* If you need SEO then it should be server side component.
* Every component by default is a server side component.
* Files which have onClick handler need to be added “use client” to tell Next that is a client side component. useState is also something that should be client side.
* You should not put everything in client component as it will take advantage of server side away.

**14.2 NextJS Backend**

* In NextJS, you can do one deployment for both FE and BE.
* NextJS lets you do async components in server side. This does not work on client side. React does not let you do async components.
* Async components lets you do server side rendering.
* While the await operation is stuck in page.tsx, loading.tsx would be shown.
* NextJS FE is not distributed through CDN. We use edge network.
* You can sacrifice loading and use statically generated pages so that crawler can read the page.