Notes from first tutorial video:

Objectives of Next js:

Routes

API Routes

Rendering methods

Data fetching

Performance optimizations

Next js helps developers to efficiently build modern web operations.

Defining Next js:

Next js is a framework built for server side scripting.

Features:

File based routing

Pre-rendering (SSR & SSG)

API Handling

Performance optimizations

Why learn next js:

File based routing

Enhances react

Uses in Web Development:

Reduces boilerplate code & automates optimizations

Makes development faster

React handles only UI, next.js provides backend capabilities, routing and rendering optimizations.

Improves performance & SEO (Server Engine Optimization) making web applications faster & search engine friendly

Introduction to file based routing as a Key Feature:

Replaces traditional react’s routing with a file based routing system

Instead of defining routes based on files inside directory

Explanation of API routes:

Allows developers to build server-side API endpoints

API routes are created inside pages/api/, allowing next.js to handle backend logic, without requiring a separate server

Next js is a full stack framework

Overview of server side & client side rendering:

SSG : Static Side Generation

It pre renders pages at build time for fast performance

SSR: Server Side Rendering

Fetches data on each request, that is useful for dynamic content

CSR: Client Side Rendering

Loads data after the page loads, same as traditional react

Simplified data fetching:

(with Async and Await)

Provides simpler way to fetch data using

getStaticProps(),

getServerSideProps(),

getStaticPaths()