

# Sela.

NextJSReactFramework

## NextJS-The React Framework

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# NextJS-The React Framework

NextJSReactFramework - Version: 1

 4 days Course

## Description:

This 4-day syllabus is designed to provide participants with a comprehensive understanding of the latest features and updates in Next.js 13. The syllabus covers topics such as the app directory structure, layouts, server components, and streaming capabilities. Participants will gain hands-on experience through practical exercises and projects, allowing them to apply their knowledge in real-world scenarios. By the end of the course, attendees will be equipped with the skills to build performant and efficient web applications using Next.js 13.

## Intended audience:

This syllabus is suitable for web developers and designers who have a basic understanding of JavaScript and web development concepts. It is ideal for those who are familiar with Next.js and want to upgrade their skills to the latest version (Next.js 13). Whether you are a beginner looking to learn Next.js or an experienced developer seeking to stay up to date with the latest features, this syllabus provides valuable insights and practical knowledge.

## Prerequisites:

- Basic understanding of JavaScript and web development concepts (HTML, CSS)
- Familiarity with Next.js or a similar framework
- Experience with building web applications
- Knowledge of Git version control system (recommended but not mandatory)
- Development environment set up with Node.js and a code editor of choice



## Objectives:

This training is specifically designed for experienced React developers who want to deepen their knowledge and skills in advanced React concepts and techniques. Intended Audience: JavaScript and Frontend developers Prerequisites: Basic knowledge of JavaScript and Frontend development

## Topics:

### Next.js Fundamentals

- Introduction to Next.js and its benefits
- Setting up a Next.js project
- Understanding the app directory structure
- Routing in Next.js: Basic routing and dynamic routing
- Next/link: Navigating between pages
- Next/image: Optimizing image loading and performance

### Advanced Routing and Layouts

- Advanced routing patterns in Next.js
- Nested layouts: Creating multiple layers of layouts
- Colocated application code: Organizing code within layouts
- State preservation: Maintaining state across page transitions
- Using Next.js Server Components for enhanced performance

### Server Components and Streaming Capabilities

- Introduction to Next.js Server Components
- Benefits of async Server Components

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- Implementing async data fetching with Server Components
- Streaming capabilities in the app directory
- Progressive rendering and incremental streaming of UI units

## Project Work and Recap

- Hands-on project work using Next.js
- Implementing advanced routing patterns in a real-world application
- Applying nested layouts and state preservation techniques
- Exploring Server Components and streaming capabilities
- Recap of Next.js 13 features and their significance