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Next.js

Next.js is a popular React framework for building server-side rendered and statically generated web applications. It was first released in 2016 by Zeit, a company that was later acquired by Vercel. Since then, Next.js has gained popularity in the web development community due to its ability to easily create scalable and performant web applications.

Next.js was created to solve some of the challenges faced by developers when building React applications, such as slow initial page load times and difficulty implementing server-side rendering. It provides features such as automatic code splitting, server-side rendering, and static site generation out of the box, making it easier to create high-performing web applications.

In recent years, Next.js has been adopted by many big-name companies like Hulu, Twitch, and Nike to build their web applications. This has led to increased community support and the development of many useful plugins and libraries for Next.js.

This learning plan is designed to provide you with a solid foundation in Next.js, from the basics of pages and routing to more advanced topics like data fetching and deployment. By the end of this plan, you should have the skills to build your own Next.js applications and be well-equipped to continue learning and exploring the framework on your own.

Learning Plan Tasks

- 1. Introduction to Next.js
- 2. Pages and Routing
- 3. Data Fetching
- 4. Styling and UI
- 5. Deployment and Beyond
- 6. Build Something with Next.js!

#checkoutTheDocs

- Next.js: Developer Documentation the official documentation is the best place to start learning Next.js. It's comprehensive and easy to understand, and covers all the core concepts and features of the framework.
- Next.js: Getting Started with Next.js
- Next.js: Next.js Showcase
- Traversy Media: Next.js Tutorial
- Egghead.io: Next.js Courses
- Discord: Next.js Discord Community

Next.js has a great tutorial that covers a lot of the components of this learning plan. This is embedded throughout, but you may find it helpful to do the entire tutorial at once!

1. Introduction to Next.js

This section covers the following topics:



- Read the official Next.js documentation to get a basic understanding of what it is and what problems it solves.
- Watch some introductory videos on Next.js on YouTube or Udemy.
- Set up a new Next.js project and explore the file structure and configuration options.

By completing these tasks you should have a good understanding of what Next.js is, what problems it solves, and how to set up a new project. You should also have a basic understanding of the file structure and configuration options available in a Next.js project.

Tasks

1.	Read the "Foundations" section on the official Next.js documentation
	 □ Start by reading the Abut Next.js section on the Next.js documentation website, which provides an overview of the framework and its features. □ Then, read through the From JavaScript to React section, which covers how JavaScript and React are related. □ Next, read through From React to Next.js to get an overview of what Next.js is and how to get started. □ Finally, read through How Next.js Works to get an overview of how Next.js works.
2.	Watch some introductory videos on Next.js
	 □ There are many free and paid video courses available on platforms like YouTube, Udemy, and Egghead that cover Next.js. Choose one or more that suit your learning style and preferences. □ Watch videos that cover the basics of Next.js, such as creating pages, using routing, and fetching data.
3.	Set up a new Next.js project and explore the file structure and configuration options: $ \\$
	 □ Follow the instructions on the Next.js documentation website to set up a new Next.js project using the command-line interface (CLI) tool. □ Once you have set up a new project, take some time to explore the various files and directories that are created. The main directories you should focus on are pages/, public/, styles/, and api/. □ Open pages/index.js with your text editor. Find the text that says "Welcome to" under the <h1> tag and change it to "Learn". Save the file to preview your work.</h1> □ Learn about the different configuration options available for your Next.js project by exploring the next.config.js and package.json files.

2. Pages and Routing

This section covers the following topics:

• Learn about the pages system in Next.js and how to create different routes for your app.



- Experiment with creating new pages and custom routes, including dynamic routes.
- Implement basic navigation using Next.js's built-in Link component.

By completing these tasks you should have a good understanding of how Next.js handles pages and routing, how to create custom routes, and how to implement basic navigation using the Link component. You should also have some experience with creating dynamic routes and passing query parameters and state between pages.

Tasks

1.	Learn about the pages system in Next.js and how to create different routes for your app:
	☐ Read through the Pages section of the Next.js documentation to learn how to create new pages in your app and how Next.js handles routing between them.
	☐ Learn about the different file-based routing options available in Next.js, such as dynamic routes and catch-all routes.
2.	Experiment with creating new pages and custom routes, including dynamic routes:
	 □ Start by creating a few simple pages in your Next.js app using the pages/directory. For example, create a home page and an about page. □ Then, experiment with creating custom routes using file-based routing. For example, create a new page at pages/posts/[slug].js to handle dynamic routes for individual blog posts. □ Test your routes and pages by navigating to them in your browser and ensuring that they load correctly.
3.	Implement basic navigation using Next.js's built-in Link component:
	 Use the built-in Link component from Next.js to implement basic navigation between pages in your app. Experiment with passing query parameters and state between pages using the as and href props of the Link component. Test your navigation by clicking links and verifying that the correct pages load.
4	Ruild Something!

- Idea #1 Profile: Create a personal profile that has multiple pages and Link components.
- Idea #2 E-Commerce Website: Build an online store that contains multiple pages (Home, Products, Shopping Cart, Checkout, etc.) that a user can navigate between.
- Build something brand new based on what you have learned so far!

3. Data Fetching

This section covers the following topics:



- Learn about the different methods for fetching data in Next.js, such as server-side rendering and static site generation.
- Experiment with fetching data from external APIs and rendering it on a page.
- Learn about caching strategies to improve performance.

By completing these tasks you should have a good understanding of the different methods for fetching data in Next.js, how to fetch data from external APIs, and how to use caching strategies to improve performance in your app. You should also have experience with implementing server-side rendering and static site generation in your app.

Tasks

1.	Learn about the different methods for fetching data in Next.js, such as server side rendering and static site generation:	
	 Read through the Data Fetching section of the Next.js documentation to learn about the different methods for fetching data in a Next.js app. Understand the differences between server-side rendering, static site generation, and client-side rendering, and when to use each method. 	
2.	Experiment with fetching data from external APIs and rendering it on a page:	
	 □ Choose an external API that you'd like to fetch data from, such as the OpenWeather API or the GitHub API. □ Use the built-in data fetching methods in Next.js, such as getStaticProps or getServerSideProps, to fetch data from the API and pass it to a page component. □ Render the data on the page using React components and Next.js's dynamic content rendering features. 	
3.	Learn about caching strategies to improve performance:	
	 Read through the Caching section of the Next.js documentation to learn about caching strategies that can help improve performance in your app. Experiment with different caching strategies, such as using the revalidate option in getStaticProps or implementing client-side caching using React's useState and useEffect hooks. 	

4. Styling and UI

This section covers the following topics:

- Learn about the different options for styling your Next.js app, including CSS modules and CSS-in-JS libraries like styled-components.
- Experiment with creating a basic UI for your app using your preferred styling method.
- Learn about responsive design and how to implement it in your Next.js app.

By completing these tasks you should have a good understanding of the different options for styling your Next.js app, how to create a basic UI using your preferred styling method, and how to implement responsive design principles in your app. You should also have some experience with creating responsive components and layouts using CSS.

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Tasks

1.		n about the different options for styling your Next.js app, including CSS ules and CSS-in-JS libraries like styled-components:
		Read through the Styling section of the Next.js documentation to learn about the different options for styling your app. Understand the benefits and drawbacks of each option, and choose the one that best fits your needs. Complete the Assets, Metadata, and CSS section of the app you started building on Day 1.
2.	Expe meth	eriment with creating a basic UI for your app using your preferred styling nod:
		Start by creating a basic layout for your app using HTML and CSS. Choose a styling method that you'd like to experiment with, such as CSS modules or styled-components, and implement it in your app. Create a few simple components using your chosen styling method, and experiment with different CSS styles to create a visually appealing UI.
3.	Lear	n about responsive design and how to implement it in your Next.js app:
		Read through the Responsive Design section of the Next.js documentation to learn about responsive design principles and how to implement them in your app.
		Experiment with implementing responsive design in your app using CSS media queries or responsive design frameworks like Bootstrap or Material UI.
		Test your app on different screen sizes and devices to ensure that it looks good and functions correctly.

5. Deployment and Beyond

This section covers the following topics:

- Learn about the different deployment options for Next.js, including serverless deployment on services like Vercel.
- Deploy your app to a hosting service of your choice.
- Learn about advanced topics such as internationalization and serverless functions.

By completing these tasks you should have a good understanding of the different deployment options for Next.js, how to deploy your app to a hosting service, and how to implement advanced features such as internationalization and serverless functions in your app. You should also have experience with configuring and deploying a Next.js app in a production environment.

Tasks

1. Learn about the different deployment options for Next.js, including serverless deployment on services like Vercel:

Name: Date:	
	 □ Read through the Deployment section of the Next.js documentation to learn about the different deployment options for Next.js apps. □ Understand the benefits of serverless deployment, such as automatic scaling and reduced costs, and learn how to set up a Next.js app for serverless deployment. □ Deploy the starter app using the Vercel guide
2. [Deploy your app to a hosting service of your choice:
	 □ Pick one of the other Next.js applications you have built in the previous sections. Choose a hosting service, such as Vercel, Render, Railway, or AWS, and follow their documentation to deploy your Next.js app. □ Test your deployed app to ensure that it's functioning correctly and that any external APIs are still accessible.
	earn about advanced topics such as internationalization and serverless func- ions:
	☐ Read through the Advanced Features section of the Next.js documentation to learn about more advanced topics such as internationalization and

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feature.

serverless functions.

Here are some project ideas that you can build to test your understanding of Next.js:

☐ Choose one or more advanced features to experiment with, such as adding support for multiple languages in your app using Next.js's built-in i18n support or creating serverless functions using Next.js's API Routes

- Blog: Create a blog using Next.js that supports server-side rendering and data fetching from a CMS like WordPress or Ghost. You can also experiment with different UI libraries and styling options to make your blog look great.
- **E-commerce Store**: Build an e-commerce store using Next.js that supports server-side rendering and data fetching from an API like Shopify or WooCommerce. You can also experiment with different payment processing options like Stripe or PayPal.
- Recipe App: Build a recipe app using Next.js that supports server-side rendering and data fetching from an API like Spoonacular or Edamam. You can also experiment with different UI libraries and styling options to make your app look great.
- Movie Finder: Build a movie finder app using Next.js that supports server-side rendering and data fetching from an API like OMDB or The Movie Database. You can also experiment with different UI libraries and styling options to make your app look great.
- Portfolio Website: Build a portfolio website using Next.js that showcases your skills and experience as a developer. You can also experiment with different UI libraries and styling options to make your website look great.



Next Steps

- **Build more projects**: Now that you have a good understanding of Next.js, you can start building more projects to further test and develop your skills. Try building more complex applications, experiment with new features, or create your own projects from scratch.
- Explore the Next.js ecosystem: Next.js has a large and vibrant ecosystem, with many third-party packages and tools that can help you build better and more efficient applications. Start exploring the Next.js ecosystem and see what other developers are creating.
- Join the Next.js community: The Next.js community is active and supportive, and joining it can help you stay up-to-date with the latest trends and best practices. Join the Next.js Discord server, follow Next.js on Twitter, and participate in online forums and discussions.
- Learn related technologies: Next.js is just one piece of the modern web development stack, and there are many related technologies that you can learn to expand your skill set. Consider learning about GraphQL and other popular web development tools and technologies.