



Embrace Opportunity



Software Engineering Day 10

Recap of the last two weeks. Succeeding in your internships. Q&A.

jX



Today's Overview

- Recap of the last two weeks.
- Succeeding in your internships.
- Q&A.
- Cheat Sheet:
 - [iX Cheat Sheet](#)
 - [iX Cheat Sheet - Day 10](#)

Recap

What did we do in the last two weeks?

Weeks 1 and 2 Review

- **HTML, CSS, JavaScript & Bootstrap**, we learned the fundamentals of HTML, CSS and JS.
- **JavaScript deep dive**, into language functionalities and version control with Git and GitHub
- Introduction to **ReactJS**, Components, JSX, State Management, and Hooks.
- Backend development with Node.js, **Express, MongoDB**.
- **Full Stack** integration with a focus on the **blog app** project.



Key Learnings and Challenges

- Technical Skills Gained:
 - **Frontend and Backend** JavaScript technologies
 - **RESTful API** creation and consumption
 - **CRUD** operations and database management
- Challenges Overcome:
 - **Asynchronous JavaScript** operations
 - **Local state management** in React components
 - Designing a user-friendly admin panel for blog management

Capstone Project Recap

Blog App

Project Requirements: Blog App

Create a **Blog Post Application**, that incorporates these aspects:

- Front end web app - Utilising ReactJS:
 - Allowing users to be registered and login.
 - Allow users to browse, read and create blog posts and categories.
- Backend and API – Utilising NodeJS & Express & MongoDB:
 - Handle authentication and CRUD operations for the blogs, categories and authentication.

Project Requirements: Blog App - Frontend

- This blog app will consist of these pages:
 - Landing page: **(Handled up to this point)**
 - This view displays the title card, recent blog posts section and categories section.
 - The two sections will interact with the Blogs page and the Blog page.
 - Blogs page: **(Handled up to this point)**
 - This view will allow the user to view the title card of all blogs posted.
 - Logged in users will be able to create, edit and delete blogs.
 - Each with their own modal popup.
 - Selecting a blog will open the Blog page on the selected post.
 - Blog page: **(Created later)**
 - This view will allow the user to read the full blog post.
 - Accessed from both the Blogs page, Profile page and Landing page.

Project Requirements: Blog App - Frontend

- Categories page: **(Handled today)**
 - This view will allow user to view all categories of blogs available.
 - Logged in users will be able to create, edit and delete categories.
 - Each with their own modal popup.
 - Selecting category will filter the posts on the Blogs page.
- Profile page: **(Created Later)**
 - This view will allow users to view details of the user, and the blog posts created by that user.
 - Logged in user will be able to edit their profile details.

Project Requirements: Blog App - Frontend

- Login page: (Created Later)
 - This view will allow users to login to their profile.
 - Users can navigate to the register page from here if they do not already have a profile.
- Register page: (Created Later)
 - This view will allow users to create their profile.
 - Users can navigate to the login page from here if they already have a profile.

Current Frontend - Landing Page

iX Software Engineering Blog

Home Categories Blogs About 
Profile Logout

THE BLOG

Recent Blog Posts



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My First Blog Post

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

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My Second Blog Post

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

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My Third Blog Post

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

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Categories

[Project Management](#)

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[Web Development](#)

orem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

[Software Engineering](#)

orem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

Home Blogs About

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Current Frontend - Blogs Page

iX Software Engineering Blog

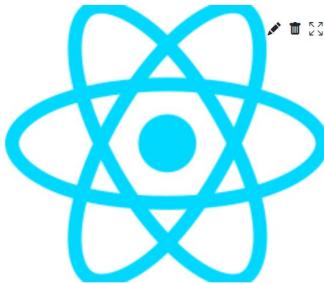
Home Categories Blogs About 

THE BLOG

[Project Management](#) [Web Development](#) [Software Engineering](#)

Blog Posts

Add Blog Post



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My First Blog Post

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Current Frontend - Categories Page

iX Software Engineering Blog

Home Categories Blogs About 

THE BLOG

Categories

Add Category

Project Management



orem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

Web Development



orem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

Software Engineering



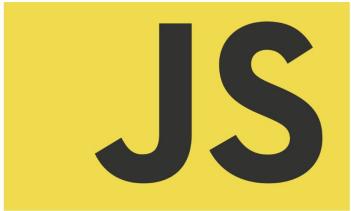
orem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

Home Blogs About

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Expected Frontend - Blog View



My Second Blog Post

2024-04-22 by [iDeveloper](#)

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

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About the author



This is my bio...

Introduction

I'm so excited to share my first blog post with the world. I've been working on this for a while and I'm happy to finally share it with you. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Body

This is the body of my blog post. I hope you enjoy reading it as much as I enjoyed writing it. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Conclusion

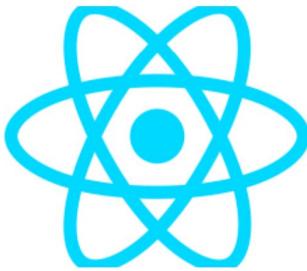
I hope you enjoyed reading my first blog post. I'm looking forward to sharing more with you in the future. Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



Expected Frontend - Profile Page



Author Blog Posts



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My First Blog Post

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My Second Blog Post

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My Third Blog Post

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...

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Expected Frontend - Login / Registration

Please login

Email address

Password

[Sign in](#)

[Register](#)

The Blog App © 2024

Author registration

First name

Last name

Bio

Email address

Password

[Register](#)

[Login](#)

The Blog App © 2024

Expected Frontend - Profile - Update

Edit Profile X

Image



First Name

Last Name

Bio

Email

Close

Save changes



Current Frontend - Blog - Create

Add Blog X

Image



+

Categories Project Management ▼

Title

Description

Content

Section Header

Section Text

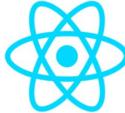
⊕ ⊖

Close Save changes

Current Frontend - Blog - Update

Edit Blog

Image



Categories Project Management

Web Development Software Engineering

Title

My First Blog Post

Description

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 15c

Content

Section Header

Introduction

Section Text

I'm so excited to share my first blog post with the world. I've been working on this for a while and I'm happy to finally share it with you.

+

Close Save changes

Current Frontend - Blog - Delete

Delete Blog

Are You sure you want to delete this Blog Post?

 My First Blog Post

Close Delete

Current Frontend - Category - Create

Add Category

X

Title

Description

Color Hexadecimal

Close Save changes

Current Frontend - Category - Update

Edit Category

X

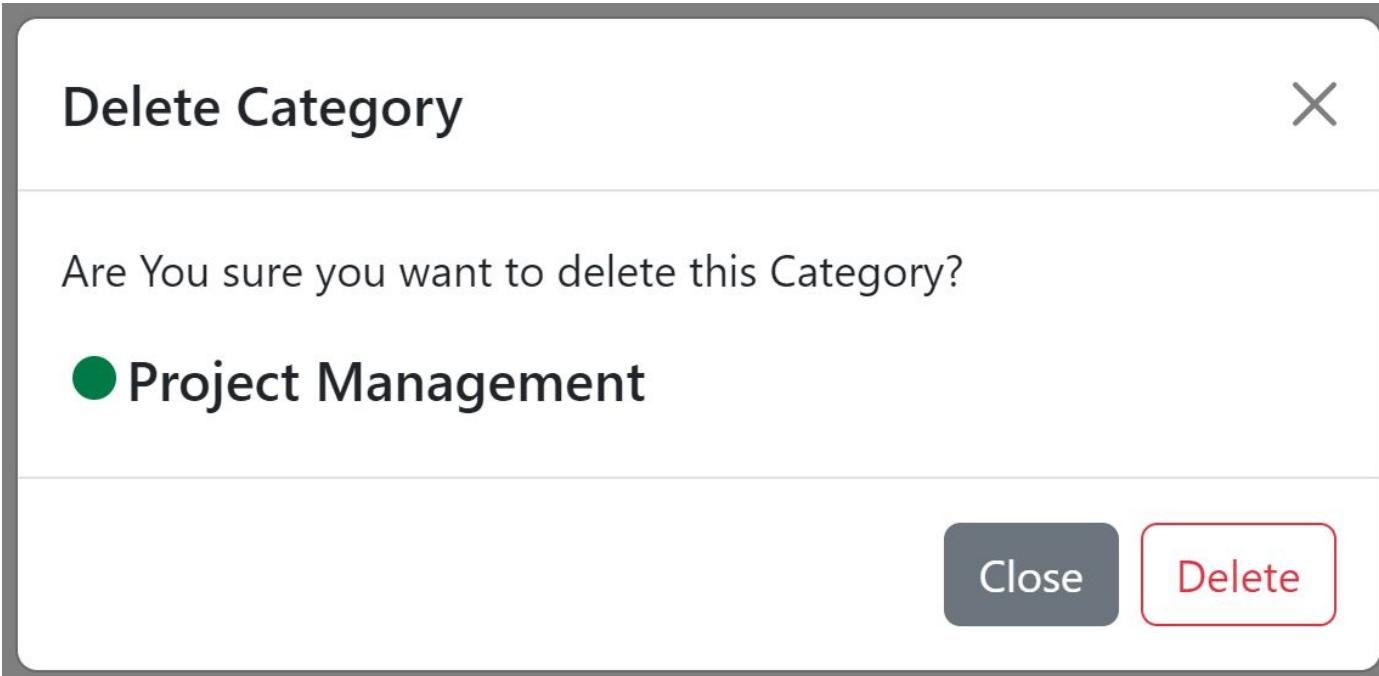
Title

Description

Color Hexadecimal

Close Save changes

Current Frontend - Category - Delete



Current Frontend - File Structure

```
└─ frontend
    ├─ public
    └─ src
        ├─ components
        ├─ pages
        ├─ services
        │   └─ App.css
        │   └─ App.jsx
        │   └─ App.test.js
        └─ dummy-data.json
        └─ index.css
        └─ index.js
        └─ logo.svg
        └─ reportWebVitals.js
        └─ setupTests.js
        └─ package-lock.json
        └─ package.json
        └─ README.md
```

```
└─ pages
    ├─ Blogs
    ├─ Categories
    └─ Home
```

```
└─ components
    ├─ AddEditBlogModal
    ├─ AddEditCategoryModal
    ├─ BlogGrid
    ├─ BlogItem
    ├─ BlogItemText
    ├─ BlogList
    ├─ Categories
    ├─ CategoriesList
    ├─ DeleteBlogModal
    ├─ DeleteCategoryModal
    ├─ EditButtons
    ├─ ErrorToast
    ├─ Footer
    ├─ Heading
    ├─ Loading
    ├─ Navbar
    ├─ Subheading
    └─ SuccessToast
```

Project Requirements: Blog App - Backend

- Node.js, Express, and MongoDB - Backend & API
- API with routes:
 - Handling authentication for users: (**Created in Day 11**)
 - Registration
 - Login
 - CRUD for blogs, categories and authentication:
 - Create
 - Read
 - Update
 - Delete

Project Requirements: Blog App - API Routes

- Routes:
 - Authentication: (Created in Day 11)
 - Create user - *login*
 - Register new user - *register*
 - Get user by ID - *getUser*
 - Update user - *updateUser*
 - Categories: (Handled up to this point)
 - Create category - *createCategory*
 - Get all categories - *getCategories*
 - Get category by ID - *getCategory*
 - Update category - *updateCategory*
 - Delete category - *deleteCategory*

Project Requirements: Blog App - API Routes

- Blog Posts: (Handled up to this point)
 - Create blogs - *createBlog*
 - Get all blog posts - *getBlogs*
 - Get blog by ID - *getBlog*
 - Get blogs by author ID - *getBlogsByAuthorId*
 - Get blogs by categories ID - *getBlogsByCategoriesId*
 - Update blog - *updateBlog*
 - Delete blog - *deleteBlog*

Current Backend - File Structure

```
backend
  node_modules
  src
    controllers
    database
    models
    routes
      index.js
    .env
  package-lock.json
  package.json
```

```
backend
  node_modules
  src
    controllers
      blogController.js
      categoryController.js
    database
      db.js
    models
      blogModel.js
      categoryModel.js
    routes
      blogsRoutes.js
      categoriesRoutes.js
      index.js
    .env
  package-lock.json
  package.json
```

Succeeding in your internship

How to make the most of the inter?

Top tips to succeed in your internship



Be Proactive - Ask questions, seek out tasks, and clarify doubts early.

Communication - Keep your mentor updated about your progress and challenges.

Apply Your Learning - Utilize the skills learned during the bootcamp to excel in real-world projects.

Top tips for effective problem solving

Break Down Problems - Divide complex problems into smaller, manageable tasks.

Seek Feedback Often - Regular feedback can guide your approach and correct misunderstandings early.



Internship Expectations

What we expect from you -

Commitment, enthusiasm, and a willingness to learn.

What you should expect -

Real-world experience, challenges, and opportunities to grow.



Q&A

What do you want to know?

Homework

Apply what we have learned

Homework

- Review the project requirements and tools
- Communicate with internship manager
 - Find out where you must go?
 - What time must you be there?
 - Be prepared with everything you need.
- Continue working on Blog App.

Stay Inspired:

You are building capabilities for a successful tech career

Each challenge is an opportunity to learn and grow

Stay Inspired!

You are building capabilities for a
successful tech career

Next Class

JSON Web Token Authentication

