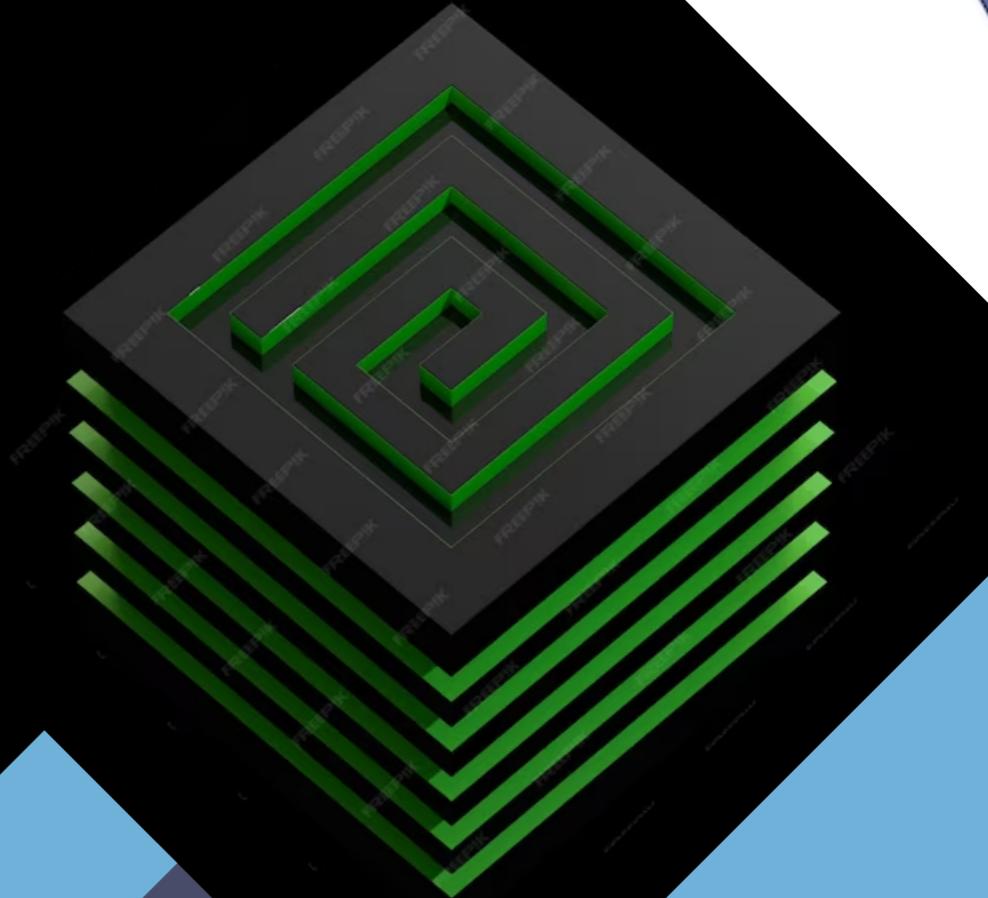


# Building a Web Application with MERN STACK : A Food Ordering Project (Order It)



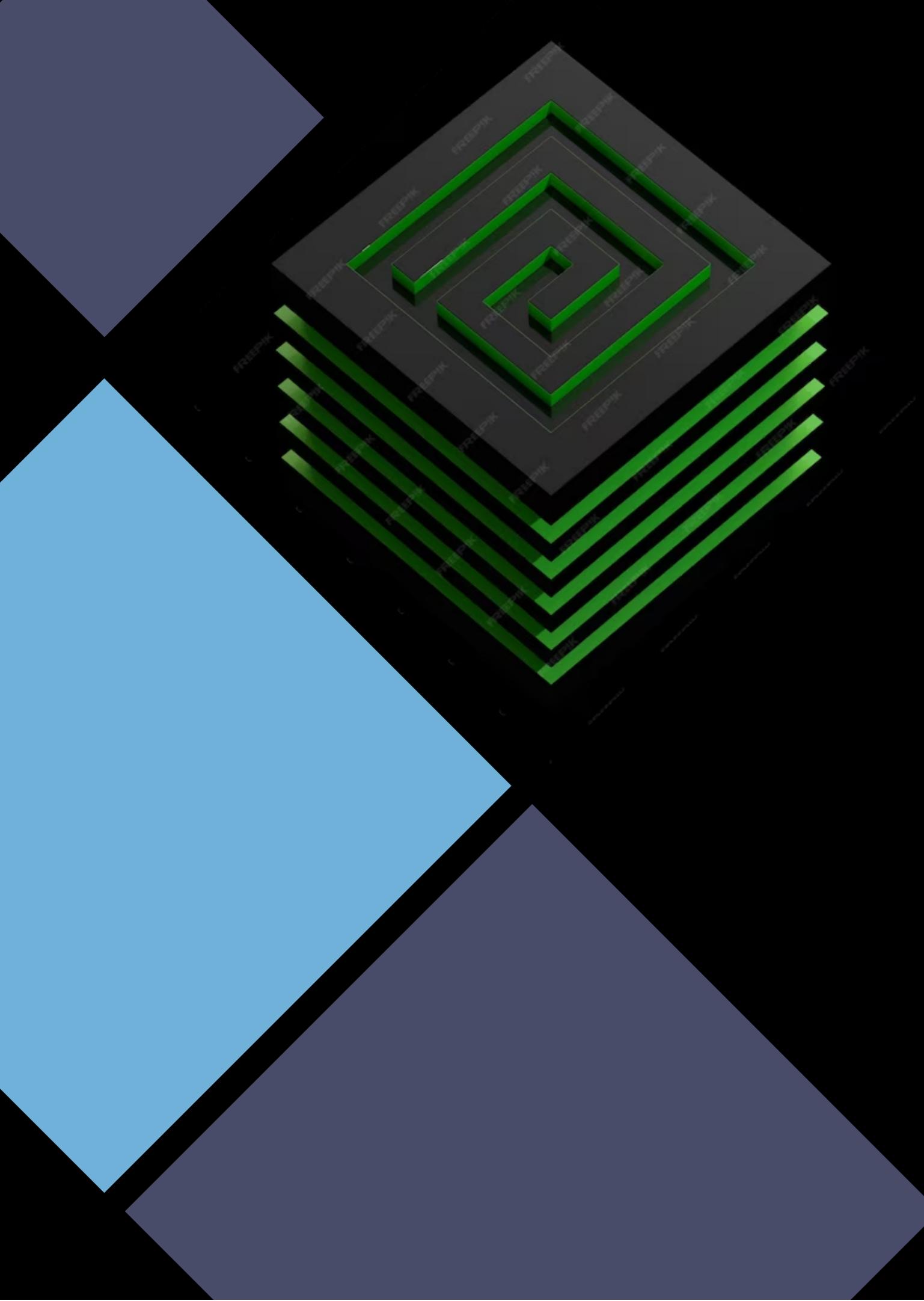
# Introduction

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A Delicious Journey through MERN STACK Development Food Ordering Project.

This presentation will take you through the process of how i built a full-stack food ordering web application using the MERN stack. The project will be focused on food and will demonstrate the use of MongoDB, Express, React, and Node.js.





# MERN Stack

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The MERN stack is a popular full-stack JavaScript framework that includes **MongoDB, Express, React, and Node.js**. MongoDB is used for database management, Express is used for server-side development, React is used for client-side development, and Node.js is used for server-side JavaScript execution.

# Project Overview

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The food ordering project is a full-stack web application that allows users to browse and order food items from a restaurant.

The project includes a MongoDB database to store food items and user information, an Express server to handle requests and responses, a React client to display the user interface, and Node.js to execute server-side JavaScript code.

The app will use the MERN stack and will be built in stages, starting with the frontend and backend, then moving on to the database .



# Frontend

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The frontend of the app will be built using React, a popular JavaScript library for building user interfaces. We will use Redux, a predictable state container for JavaScript apps, to manage the state of the app. We will also use React Router, a routing library for React, to handle navigation between pages.





# Backend

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The backend of the app will be built using Node.js and Express. We will create a RESTful API that will handle requests from the frontend and communicate with the MongoDB database. The API will be responsible for handling user authentication, food ordering and payments, and other backend functionality.

# Database

The database for the app will be MongoDB, a NoSQL database that allows for flexible and scalable data storage. We will use Mongoose, an Object Data Modeling (ODM) library for MongoDB and Node.js, to interact with the database and define the schema for our data.





# Styling

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For styling the web app, we will use CSS & HTML modules, a CSS file that is scoped to a specific component, to create reusable and maintainable styles. We will also use a CSS framework, such as Bootstrap or Material UI, to provide pre-built components and styles.



# Challenges

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Some of the challenges faced during the development process include handling user authentication and authorization, managing database transactions, and optimizing performance. These challenges were overcome using various techniques for authentication, using Mongoose for database transactions, and using React for performance optimization.

## Future Work

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Future work includes adding more features like real time tracking and Notifications, Enhanced Payment Options, Customer Support and AI Chatbots.

The application can also be improved by optimizing the user interface, improving the performance, and adding more security features. The application can also be extended to include mobile apps for iOS and Android.



# Conclusion

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In conclusion, the food ordering project is a full-stack web application built using the MERN stack can provide a seamless and efficient development experience.

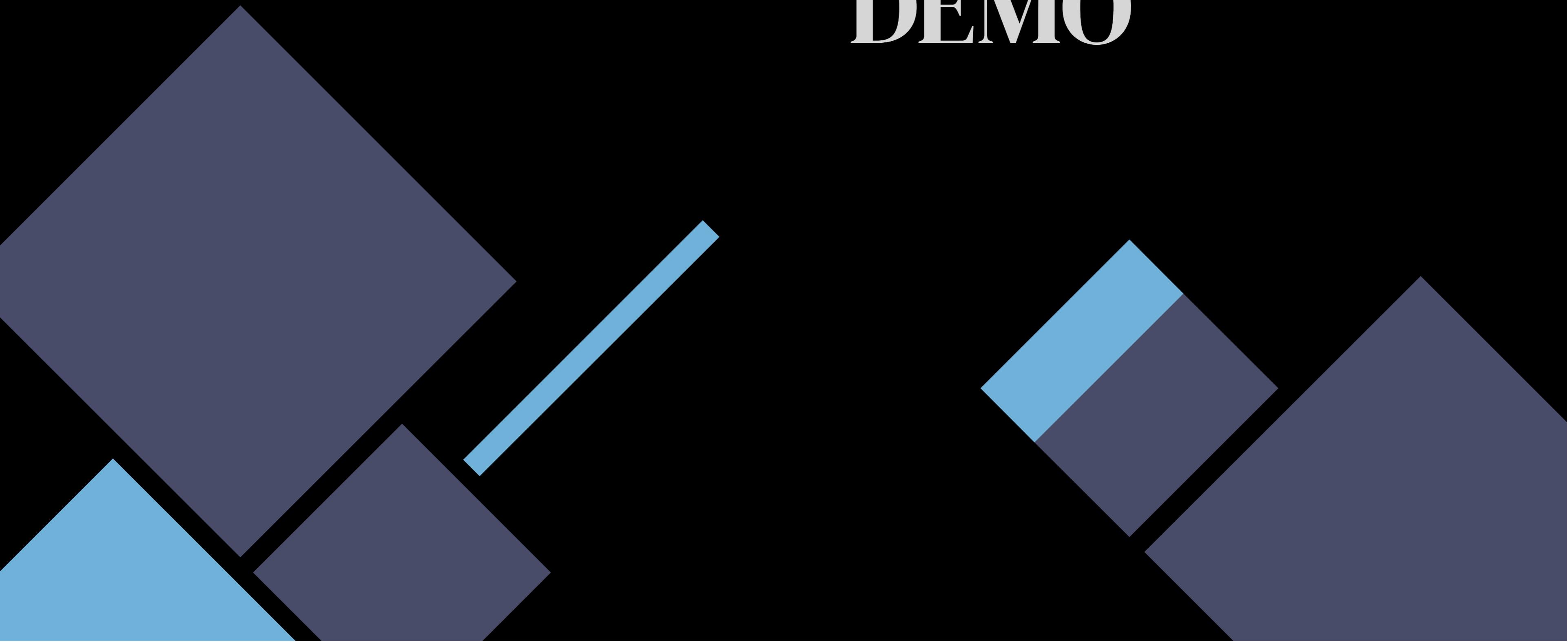
By using MongoDB, Express, React, and Node.js, we can create a flexible, scalable, and dynamic webapplication.

The project includes a MongoDB database, an Express server, a React client, and Node.js for server-side execution.

The project faced various challenges during development but was successfully completed using various techniques.

Future work includes adding more features and improving the application.

# DEMO



# Thanks!

Regards - M RISHI GOWDA

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