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REST APIs: The foundation of modern web development

As a software engineer, I have always been passionate about sharing my knowledge and helping others to understand complex technical concepts. That's why I was so excited to create this small presentation on REST API.

For those who may not know, a REST API (which stands for Representational State Transfer API) is a way for different software systems to communicate with each other through the internet.

It's a crucial component of modern software development, and something that every aspiring developer should understand.

Imagine you're trying to book a flight online. When you search for flights and enter your preferences, the website sends a request to the airline's computer system to find available flights that match your criteria. The airline's system then sends a response back to the website with the available flights, and you can choose one to book. This interaction between the website and the airline's system is made possible through a REST API.

There are five main methods used in a REST API:

GET - retrieves a specific resource or collection of resources

POST - creates a new resource

PUT - updates an existing resource

DELETE - removes a specific resource

PATCH - partially updates an existing resource

The response from a REST API can either be a success or an error. A success response typically includes the requested information or a message confirming that the requested action was completed. An error response includes a message explaining why the request

could not be completed.

Overall, a REST API is a crucial tool for allowing different software systems to communicate with each other and exchange information seamlessly.

If you're working with software systems or just want to understand how different websites and apps work together, it's important to understand the basics of REST APIs.

I know firsthand how confusing and overwhelming it can be to learn about new technologies, especially when you're just starting out in the field. That's why I wanted to create this presentation - to provide a clear, concise, and easy-to-understand explanation of what a REST API is and how it works.

I hope that this presentation will be helpful to those who are new to software development, or who are simply looking to learn more about APIs. And I plan to keep creating more such documents in the future, so that all the needy and new enthusiasts out there can benefit from my knowledge and experience.

So if you're interested in learning more about APIs, or if you have any questions or feedback about this presentation, please don't hesitate to reach out. I'm always happy to help, and I'm committed to doing my part to make the world of software development more accessible and understandable to everyone.