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REST API Design Rulebook  - Mark Masse  - 2016-11-29  

The basic rules of REST APIs - “many nouns, few verbs, stick with HTTP” - seem easy, but that simplicity and power require discipline to work smoothly. This brief guide explains the design principles that make REST APIs work as intended. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into a workable API service. This book is aimed at developers and architects who want to get started with REST, and at those who already have a RESTful design and are looking to take it to the next level.

Hands-On RESTful API Design Patterns and Best Practices  - Harihara Subramanian  - 2019-01-31  

This cookbook includes more than 100 recipes to help you take advantage of REST, HTTP, and the infrastructure of the Web. You'll learn ways to design RESTful web services, applications, and services that adhere to the REST architectural style. This book combines short, practical, hands-on recipes with well-explained, succinct explanations of the REST architectural style.

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**API Architectures**

Matthias Biehl - 2015-05-22

Looking for the perfect way of solving API-related issues? This book is for you! Building API that consumes lots should certainly be part of any API-related project. However, it is not as easy as it sounds. For one, you need to understand the logic of API design and development, you need to define API architecture, and implements a pattern for API that simplifies the development process. This book teaches you how to do this by providing you with a set of design patterns that can be used to create a perfect API architecture.

### Key Features

- Provides an introduction to API design and development
- Explains the importance of API architecture and its role in developing API
- Offers design patterns and best practices for API development
- Helps you create APIs that are scalable, maintainable, and extensible

### Who this book is for

This book is for anyone who wants to learn about API design and development, including software developers, system administrators, and IT professionals. It is also suitable for experienced API designers who want to stay up-to-date on the latest trends and techniques in API development.

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**Spring Data**

Rob Daimeo - 2016-07-18

Spring Data is a framework that helps you compose core REST technologies such as JSON, XML, and HTML into the web services that you need for your applications. It helps you create scalable, maintainable, and easy-to-use web services.

### Key Features

- Provides a comprehensive guide on how to use Spring Data
- Explains the concepts and best practices of RESTful web services
- Offers design patterns and best practices for building web services

### Who this book is for

This book is for anyone who wants to learn about web services development, including software developers, IT professionals, and web developers. It is also suitable for experienced developers who want to stay up-to-date on the latest trends and techniques in web services development.

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**High Performance Browser Networking**

Ilya Grigorik - 2013-09-11

High Performance Browser Networking is a book that helps you understand the best practices for improving the performance of your web applications. It covers topics such as caching, compression, and server-side technologies.

### Key Features

- Provides a comprehensive guide on how to improve the performance of your web applications
- Explains the concepts and best practices of improving web application performance
- Offers design patterns and best practices for improving web application performance

### Who this book is for

This book is for anyone who wants to learn about improving web application performance, including software developers, web developers, and IT professionals. It is also suitable for experienced developers who want to stay up-to-date on the latest trends and techniques in improving web application performance.
RESTful API is an approach to system and software architecture that uses Hypertext Transfer Protocol (HTTP) for communication between system components. REST, which stands for Representational State Transfer, is a stateless, client-server architecture that uses HTTP and other protocols for communication.

A RESTful web service is a software system designed to conform to the REST architectural style. It provides a collection of resources and stateless operations on those resources. Resources are accessed via their URIs (Uniform Resource Identifiers). RESTful web services are designed with the following principles in mind:

1. **Uniform Interface**: The interface to the web service is uniform across all the operations and resource representations. This allows for a simple client-side implementation, as the client doesn’t need to know the specific implementation details of the service.

2. **Stateless Operation**: Each operation (HTTP request) is independent of the state between requests. This makes it easy to cache responses, and it simplifies the implementation of the service.

3. **Asynchronous Communication**: RESTful services can be accessed asynchronously, allowing clients to get back to work immediately after sending a request. Services can use various methods to notify the client that the request has been completed, such as HTTP status codes, callback methods, or even webhooks.

4. **Self-Description**: RESTful services provide self-documenting resources and contracts, which allow clients to discover the service and its capabilities without any prior knowledge.

5. **State on the Client**: Changes to the state of the service are reflected on the client, rather than on the server. This makes it possible to implement caching, and it simplifies the client-side implementation.

6. **Uniformity**: RESTful services provide uniformity across all interactions, which makes it easier to support multiple clients and integrate with other systems.

7. **Layered System**: RESTful services can be accessed through multiple layers of software, making it easier to implement caching and load balancing.

8. **Cacheability**: RESTful services can be cached, which helps reduce network traffic and improves performance.

A good RESTful web service is one that follows these principles and provides a simple and easy-to-use interface for clients to interact with. It should be designed with the needs of the clients in mind, and it should provide a simple and easy-to-use interface for them to interact with.

**Benefits of RESTful Services**

- **Ease of Use**: RESTful services are easy to use and understand, which makes it easier for clients to integrate with the service.
- **Scalability**: RESTful services can scale horizontally, which makes it easier to handle large numbers of clients and requests.
- **Efficiency**: RESTful services can be more efficient, as they can be optimized for specific use cases and environments.
- **Security**: RESTful services can be more secure, as they can be designed with security in mind, and they can use various security measures to protect the data and the service.

**Why Use RESTful Services?**

- **Simplicity**: RESTful services are simple to use and implement, which makes it easier for clients to integrate with the service.
- **Scalability**: RESTful services can scale horizontally, which makes it easier to handle large numbers of clients and requests.
- **Efficiency**: RESTful services can be more efficient, as they can be optimized for specific use cases and environments.
- **Security**: RESTful services can be more secure, as they can be designed with security in mind, and they can use various security measures to protect the data and the service.

**Conclusion**

RESTful services provide a simple and easy-to-use interface for clients to interact with. They are designed with the needs of the clients in mind, and they provide a simple and easy-to-use interface for them to interact with. RESTful services are easy to use and understand, which makes it easier for clients to integrate with the service. They can also be more efficient and secure, which makes them a good choice for many applications.

**Further Reading**

- [Designing Evolvable Web APIs with ASP.NET](https://www.amazon.com/Designing-Evolvable-Web-APIs-ASPNET/dp/0321583393)
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