

REST

(REpresentational State Transfer)

INTRODUCTION

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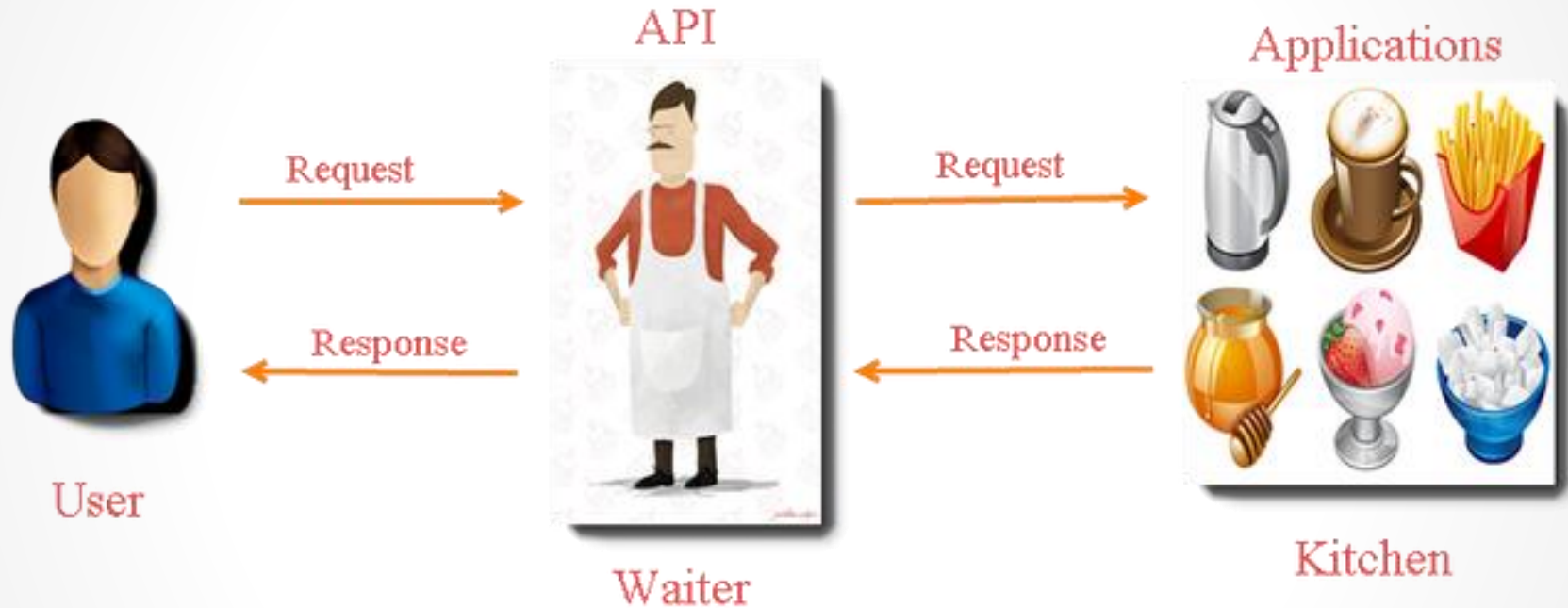
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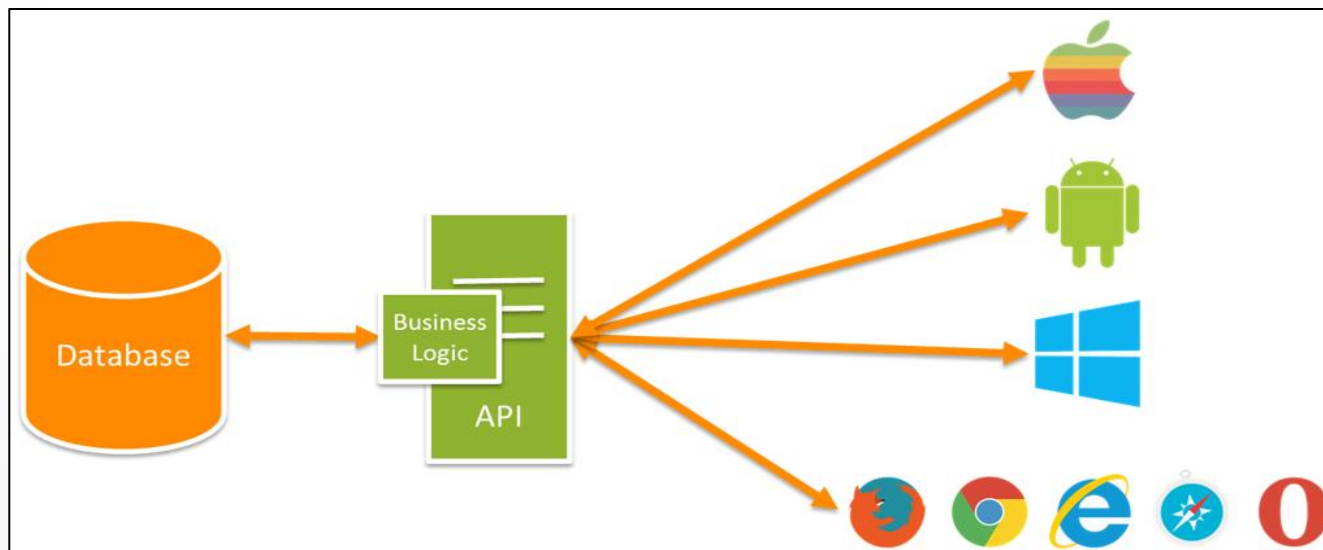
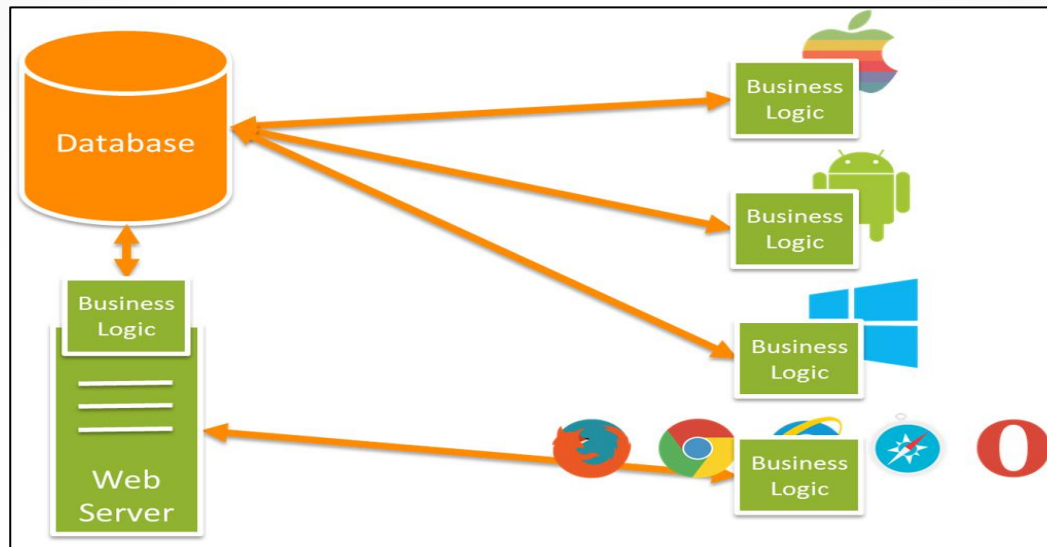
INTRODUCTION



<https://keshavtechinfo.wordpress.com/api-testing/api-manual/>



INTRODUCTION



<https://blogs.msdn.microsoft.com/martinkearn/2015/01/05/introduction-to-rest-and-net-web-api/>

What is REST?

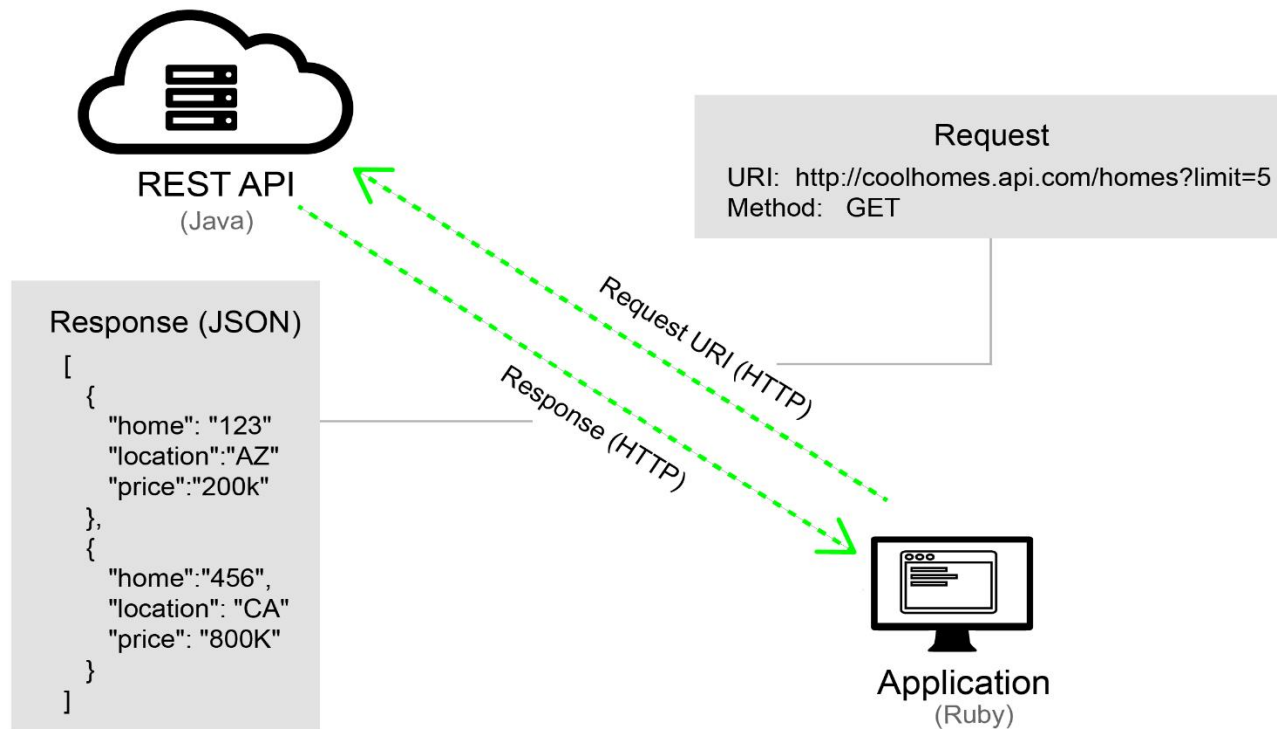
- The REST architecture was originally designed to fit the HTTP protocol that the world wide web uses.
- Central to the concept of RESTful web services is the notion of resources.
- Resources are represented by URLs.
- The clients send requests to these URLs using the methods defined by the HTTP protocol, and possibly as a result of that the state of the affected resource changes.

REST

- Simple web service as an example: querying a phonebook application for the details of a given user
- The query will probably look like this:
<http://www.acme.com/phonebook/UserDetails/12345>
- GET [/phonebook/UserDetails/12345](#) HTTP/1.1
Host: www.acme.com
Accept: application/xml
- **Complex query:**
<http://www.acme.com/phonebook/UserDetails?firstName=John&lastName=Do>

ReST API Model

REST API model



REST over HTTP – Uniform interface

- **CRUD** operations on resources
 - Create, Read, Update, Delete
- Performed through **HTTP methods + URI**

CRUD Operations

4 main HTTP methods

	Verb	Noun
Create (Single)	POST	Collection URI
Read (Multiple)	GET	Collection URI
Read (Single)	GET	Entry URI
Update (Single)	PUT	Entry URI
Delete (Single)	DELETE	Entry URI

HTTP Methods

HTTP Method	Action	Examples
GET	Obtain information about a resource	http://manipal.edu/api/v1/students (retrieve student list)
GET	Obtain information about a resource	http://manipal.edu/api/v1/students/123 (retrieve student #123)
POST	Create a new resource	http://manipal.edu/api/v1/students (create a new student, from data provided with the request)
PUT	Update a resource	http://manipal.edu/api/v1/students/123 (update student #123, from data provided with the request)
DELETE	Delete a resource	http://manipal.edu/api/v1/students/123 (delete student #123)

HTTP Status Codes

Level 200 (Success)

200 : OK

201 : Created

203 : Non-Authoritative
Information

204 : No Content

Level 400

400 : Bad Request

401 : Unauthorized

403 : Forbidden

404 : Not Found

409 : Conflict

Level 500

500 : Internal Server Error

503 : Service Unavailable

501 : Not Implemented

504 : Gateway Timeout

599 : Network timeout

502 : Bad Gateway

Characteristics of a REST system

- **Client-Server:** A Client-Server Architecture separates the user interface (the Client) from data processing and storage (the Server) so that a system has improved portability, scalability, and malleability (ability to modify on the fly).
- **Stateless:** Each request from a client must contain all the information required by the server to carry out the request. In other words, the server cannot store information provided by the client in one request and use it in another request. This makes the interface between Clients and Servers reliable.
- **Cacheable:** Caching is all about making information available at the right place at the right time. Your web browser caches data from websites (assets like images, colors, types, fonts, etc) so that it can reload them faster the next time you view them. Caching, if implemented properly, can improve the scalability and performance of an application significantly.

Characteristics of a REST system

- **Uniform Interface:** The uniform interface constraint is fundamental to the design of any RESTful system. It simplifies and decouples the architecture, which enables each part of a system (e.g. the Client or the Server) to evolve independently – which makes a system more flexible and easier to maintain..
- **Code on demand:** Code on Demand means that Servers can temporarily extend or customize the functionality of a Client by transferring executional code like Java applets or client-side JavaScript. This increases the malleability of an application built on a REST API.