CSC309 - Winter 2017

Lab 7 - Digesting ReST Endpoints

Quick Recap

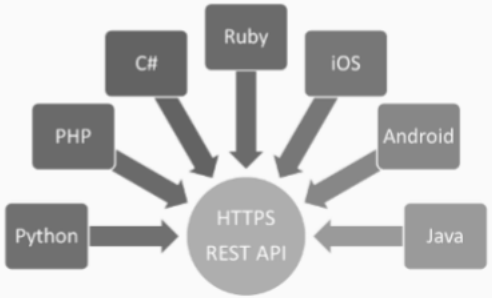
So What Exactly is ReST?

REST is an architecture style for designing networked applications.

The idea is that, rather than using complex mechanisms such as CORBA, RPC or SOAP to connect between machines, simple HTTP is used to make calls between machines.

In many ways, the World Wide Web itself, based on HTTP, can be viewed as a REST-based architecture.

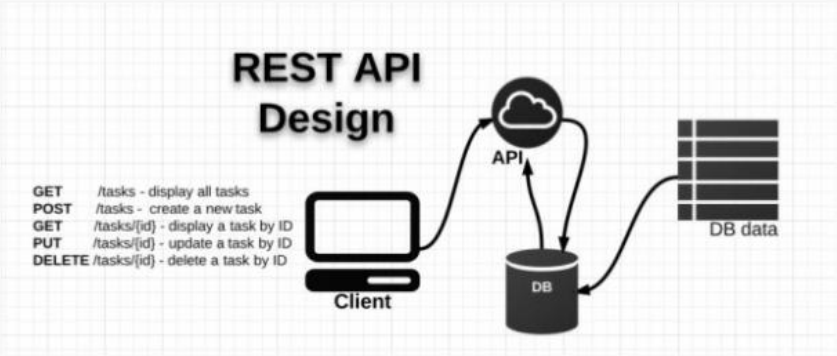
RESTful applications use HTTP requests to post data (create and/or update), read data (e.g., make queries), and delete data. Thus, REST uses HTTP for all four CRUD (Create/Read/Update/Delete) operations.



We discussed what ReST was and how we can have endpoint resources that can digest the input

Quick Recap

Rest Architecture



- URIs: persistent identifier
- Verbs: Create, Retrieve, Update, Delete becomes POST, GET, PUT, and DELETE
- Accept headers control whether you want XML, HTTP, or even a Java Object representing the resource.
- HTTP is stateless, but ReST allows you to maintain the state in the object and representing the state in the representation.
- REST is a lightweight alternative to mechanisms like RPC (Remote Procedure Calls) and Web Services (SOAP, WSDL, et al.)

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Let’s build a FrontEnd for our Backend.

- Try Following the Setup Instructions Along with the TA.
- At the end you should have something like this working.

Important Parts to Look For

- `/assets/scripts/script.js` uses jQuery to send and receive messages via get and post messages to the endpoints exposed by chatserver.js.
- jQuery is nothing but a library of some commonly used JS functions.
- Each click fires an event, which does something, go figure!
- Try chatting with your partners.
- The enter key does not send the message, it changes the url instead, why?

Quiz Time