

REST & APIS

Code 301

AGENDA

- ➤ Topics for Code Review
- ➤ A Conversations About REST
- ➤ RESTful APIs
- ➤ Demo of MVC and REST

TOPICS FOR CODE REVIEW

REST

A DRAMATIC READING

66

"How I Explained REST to My Brother..."

-https://gist.github.com/brookr/5977550



REST CONCEPTS

REST CONCEPTS

- ➤ REST:
 - ➤ Representational State Transfer
- ➤ HTTP:
 - ➤ Like GPS for knowledge; applying VERB to NOUN.
- > URL:
 - ➤ Points to the representation of a resource
- ➤ Web page:
 - > representation of some info in HTML



REST CONCEPTS

- ➤ REST Verbs
 - ➤ Act on a "noun" resource (hint: your Models!)
 - ➤ GET: Fetch a resource (usually to display it)
 - ➤ POST: Send info about a new resource
 - ➤ PUT: Send info about changing a resource
 - ➤ DELETE: Remove a resource, duh.



XMZ-RPC/SOAP

- > ame method, vary endpoints:
 - ➤ GET /getCop
 - ➤ GET /get //ments
 - GET aComment
 - /editComment
 - ➤ GET SteComm

RESTFUL ROUTES

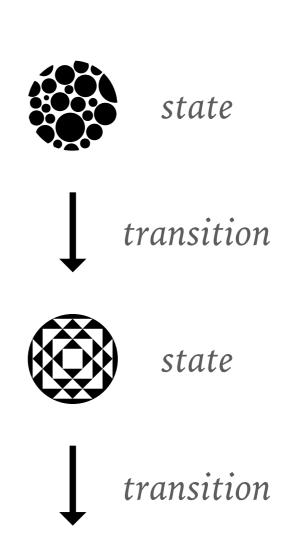
- ➤ HTTP method + resource:
- ➤ GET /comments/:id
- ➤ GET /comments
- ➤ POST /comments
- ➤ PUT /comments/:id
- ➤ DELETE /comments/:id
- ➤ Resource Oriented Architecture
- Methods address the same web-based resource

RESTFUL ROUTES

- ➤ Each "endpoint" is a route, made of noun and verb.
- > HTTP is stateless
 - Requests do not have "memory"
 - ➤ No individual request may be assumed to know anything about any other request.
 - ➤ All the required information representing the possible actions to take should be present in every **response**.
 - Hypermedia: "Here's the thing you asked for, here's what you can do next"

APP STATE AND TRANSITION

- ➤ GET:
 - ➤ asks for the current state
- ➤ POST/PATCH/PUT/DELETE:
 - changes the state



state

REST API DEMO

https://developer.github.com/v3/

ASSIGNMENT DEMO