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4/10/2023

CS390

Notes

Iteration 3 instructions have been posted:
https://cs.plu.edu/courses/protected/cs390/2023s/project/iteration3.html

We can start on the server returning test hard coded information

Theres a lot to do this iteration, need consistent working on – if confused meet with wollf

IA2 will come out most likely tomorrow

Short quiz on Friday

Video posted on calendar, watch before Wednesday:
https://www.youtube.com/watch?v=14h8mMatfes&list=PLeMMGxq3FPxgAcnQh5eHqTfO4Ucs5JORw&index=5

Coupling:

- Low coupling
    - Not affected by changes in other components
    - Simple to understand in isolation
    - Convenient to reuse

Cohesion: Measures how much functionality related functions are. You want this as high as possible

Restful apis

Single page app:

- Able to interact with the page and have it update
- AJAX revolution

Service oriented architecture:

- Best tool for the job
- Easier to test
- more agile friendly
- Microservices

API:

- Defines:
    o Identity of function to be called
    o Arguments
    o A return type
    o Errors and exceptions
- Proposals:
    o SOAP, WSDL, UDDI, RML_RPC, CORBA
        ▪ None of these have really caught on
- Internet evolvs by consenous
    o Esy for developers to understand/use
    o Easy to express common use cases, possible to use rare ones
    o No burdensome license
    o Promotes code design matched to web standards
    o Winner: REST
- REST:
    o Repersential state transfer
    o URL routes, not a page & action but resource & operation
    o Archtectureal style for web services
    o Any entity can be access, identified, named, etc.
    o Request: GET, POST, PUT, PATCH, DELETE
    o Media type (mime type)

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CRUD(I)

- Create – create a instance (post)
- Read – read a instance (get)
- Update – modify an existing instance (put or patch)
- Delete – a instance (delete)
- Index – enumerate (filtered) collection of resources (get)