

① API

SERVICES A REQUEST
WITH A RESPONSE

UA

★ CONTRACT
MECHANISM / ACCESS PATTERN

```
FUNCTION X (ARG) {  
    RETURN DIFFTHING;  
}
```

VAR THING = X (?);

HTTP://BOOKINDEX.COM/API/V1/CHARMPOOR
{ } { }

URL

HTTP:// SITE.COM / API / V1 / PEOPLE
PROTOCOL DOMAIN V2 / PEOPLE

← RESOURCE

FTP:// FILE://
MAILTO://

HOW DOES OUR API WORK?

HTTP://LOCALHOST/API/STUDENTS/S

PRE-LUNK : ALL THAT WIRING

① METHOD? (GET/POST/...)

② PARSE PATH [API, STUDENTS, S]

③ WHICH CONTROLLER TO RUN?

INSTANTIATE STUDENTS CONTROLLER

④ WHICH METHOD IN CONTROLLER TO RUN

ANNOTATIONS: /API/STUDENT/S

⑤ DO WORK

↳ OFFLOAD WORK TO A SERVICE THAT DOES THE WORK

↳ SERVICE: USE TOOLS (DB CONTEXT) TO FETCH/MODIFY DATA

⑥ RESPONDS WITH RESULT OF THE WORK

SERVICE LAYER

INTERFACE

SERVICE 1: INTERFACE

← DB CONTEXT

SERVICE 2: INTERFACE

← REMOTE API CALL

/API/STUDENT/7

{

id: 7

FIRSTNAME: "JOHN",

LASTNAME: "COKOS",

ENROLLMENTS: []

NULL

ENROLLMENTS: [

{

COURSE: "DN-13",

PRICE: \$1

},

{

COURSE: "201",

PRICE: 13

}

>

- ✓ ① ENROLLMENTS MODEL
 - ✓ ② CONTEXT @ MODEL[↑]
 - ✓ ③ TELL CONTEXT @ COMPOSITE KEY
 - ✓ ④ TELL STUDENT + COURSE @
ENROLLMENTS - NAV PROPERTY
 - ✓ ⑤ MIGRATE + UPDATE
-

⑦ CRUD
ON
ENROLLMENT

⑥ LINK! TO PULL +
MERGE TABLES

" ADD A STUDENT TO A COURSE

POST

/API/COURSES/CID/SID
1 3