

Laboratorul 11

Tehnologii Web

Obiectivele laboratorului



Restful API Overview



REST Methods



Response Codes



Exercitii

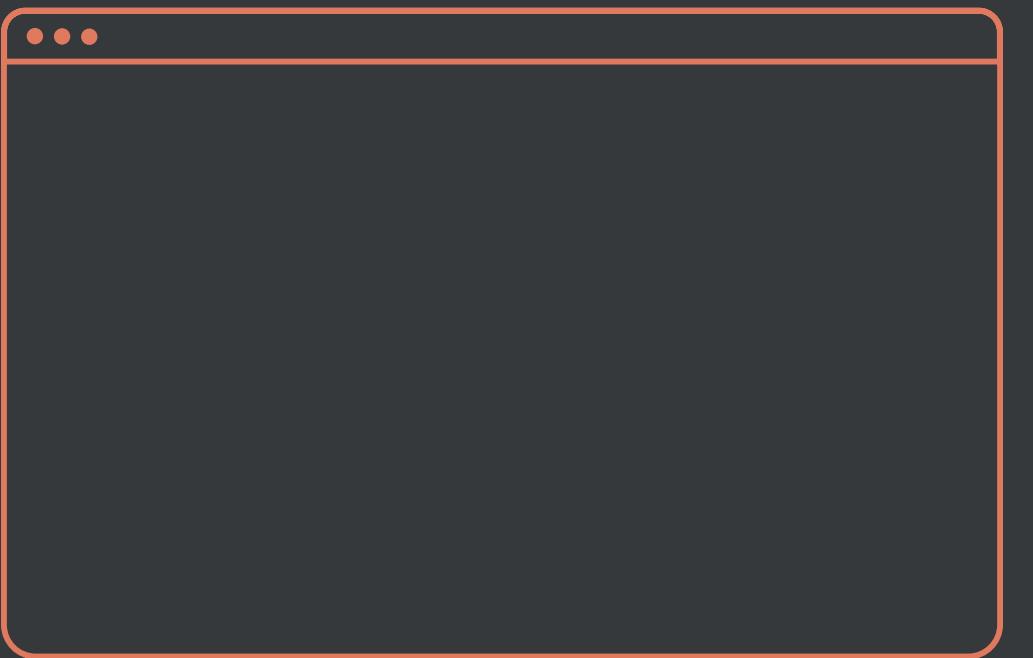
RESTFUL API

Representational
EState
Transfer

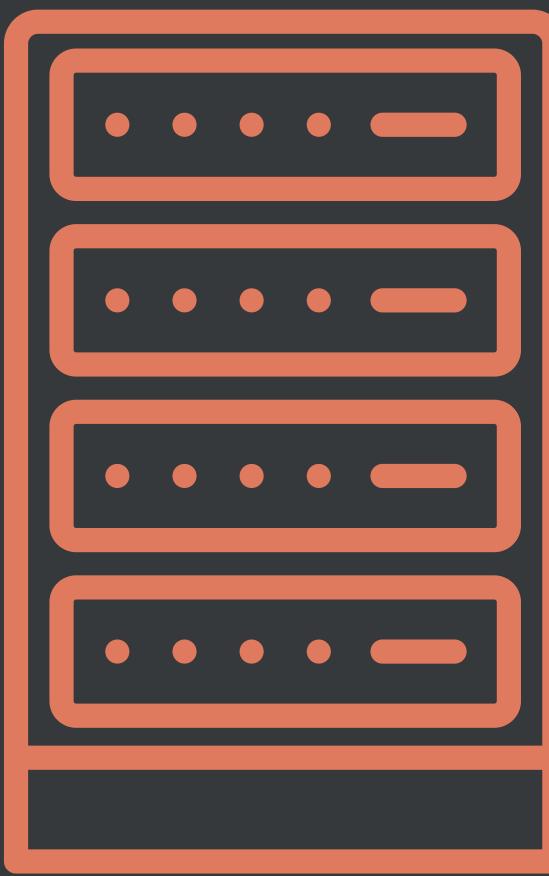


Rest Overview

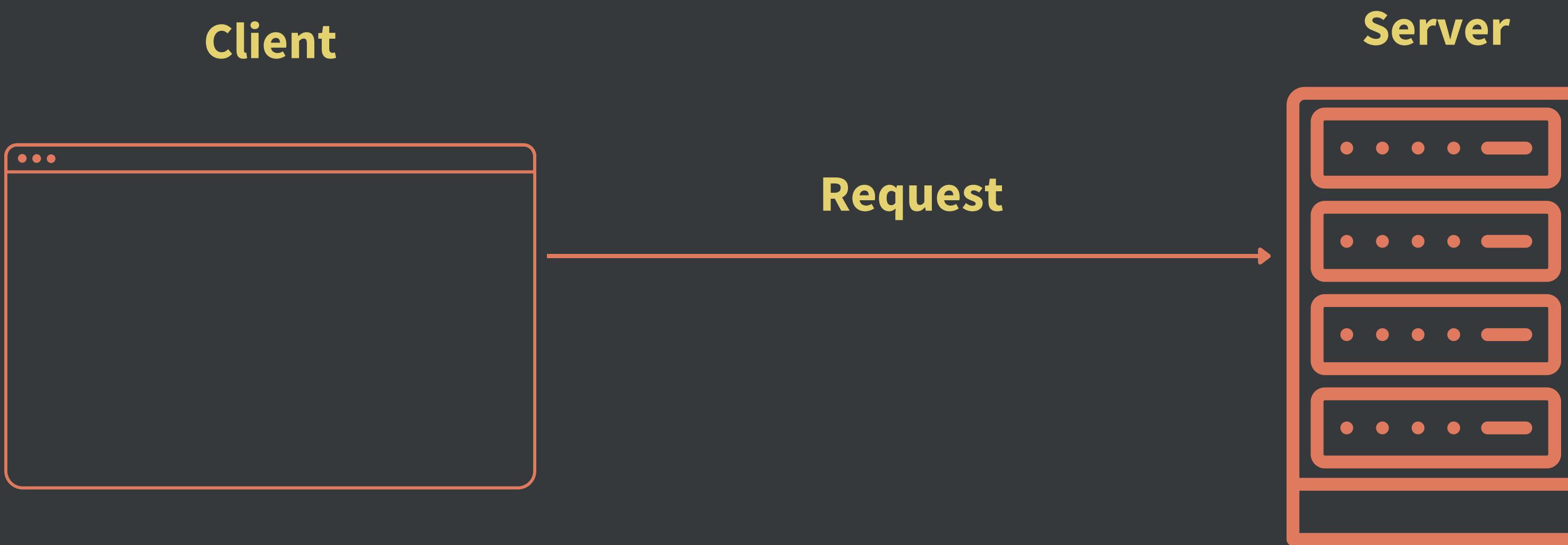
Client



Server



Rest Overview



Rest Overview

Request



```
<form action="myForm.php" id="myForm" method="POST">
```

Rest Overview

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Rest Methods

GET

**Accesarea unei resurse sau
apelarea unei functii**

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Rest Methods

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**Este cel mai adesea folosit
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Rest Methods

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PUT

**Utilizat pentru inlocuirea unei
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Rest Methods

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**Utilizat pentru inlocuirea unei
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DELETE

Stergerea unei resurse

Rest Methods

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**Accesarea unei resurse sau
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pentru a crea resurse noi**

PATCH

**Updatare
resursa**

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```

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**Utilizat pentru inlocuirea unei
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DELETE

Stergerea unei resurse

Rest Methods

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**Accesarea unei resurse sau
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PATCH
**Updatare
resursa**

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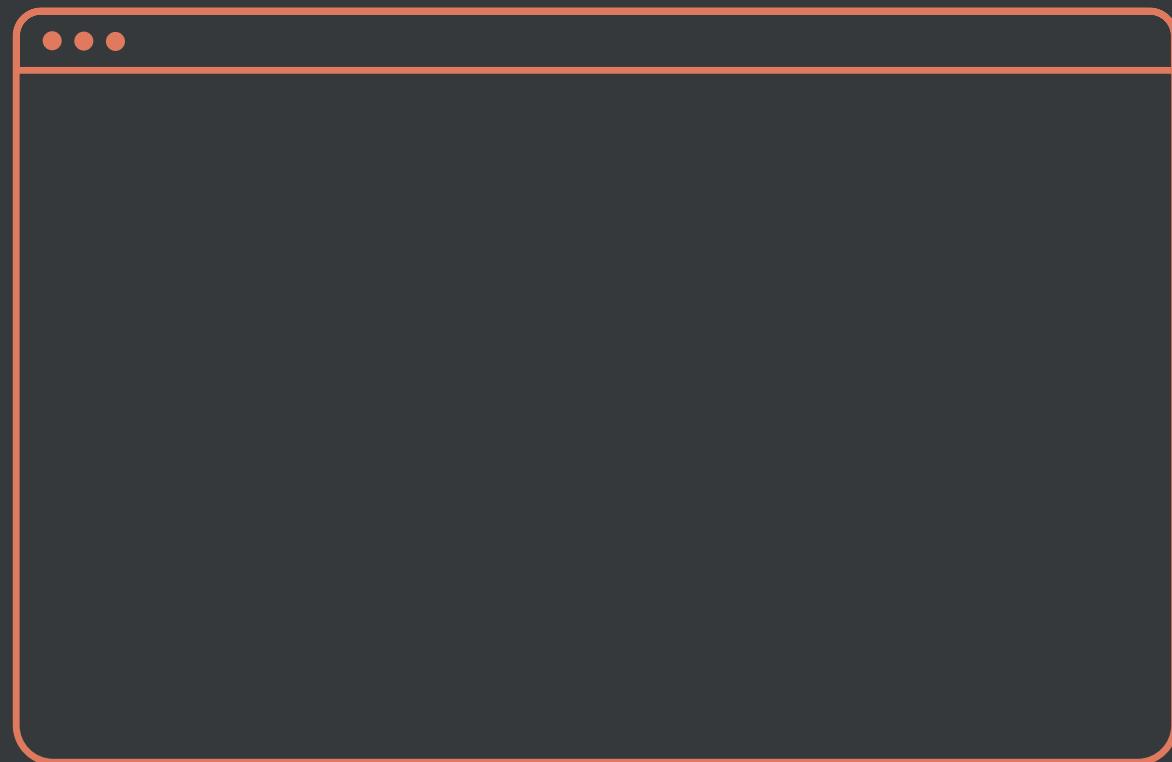
CRUD

PUT
**Utilizat pentru inlocuirea unei
resurse**

DELETE
Stergerea unei resurse

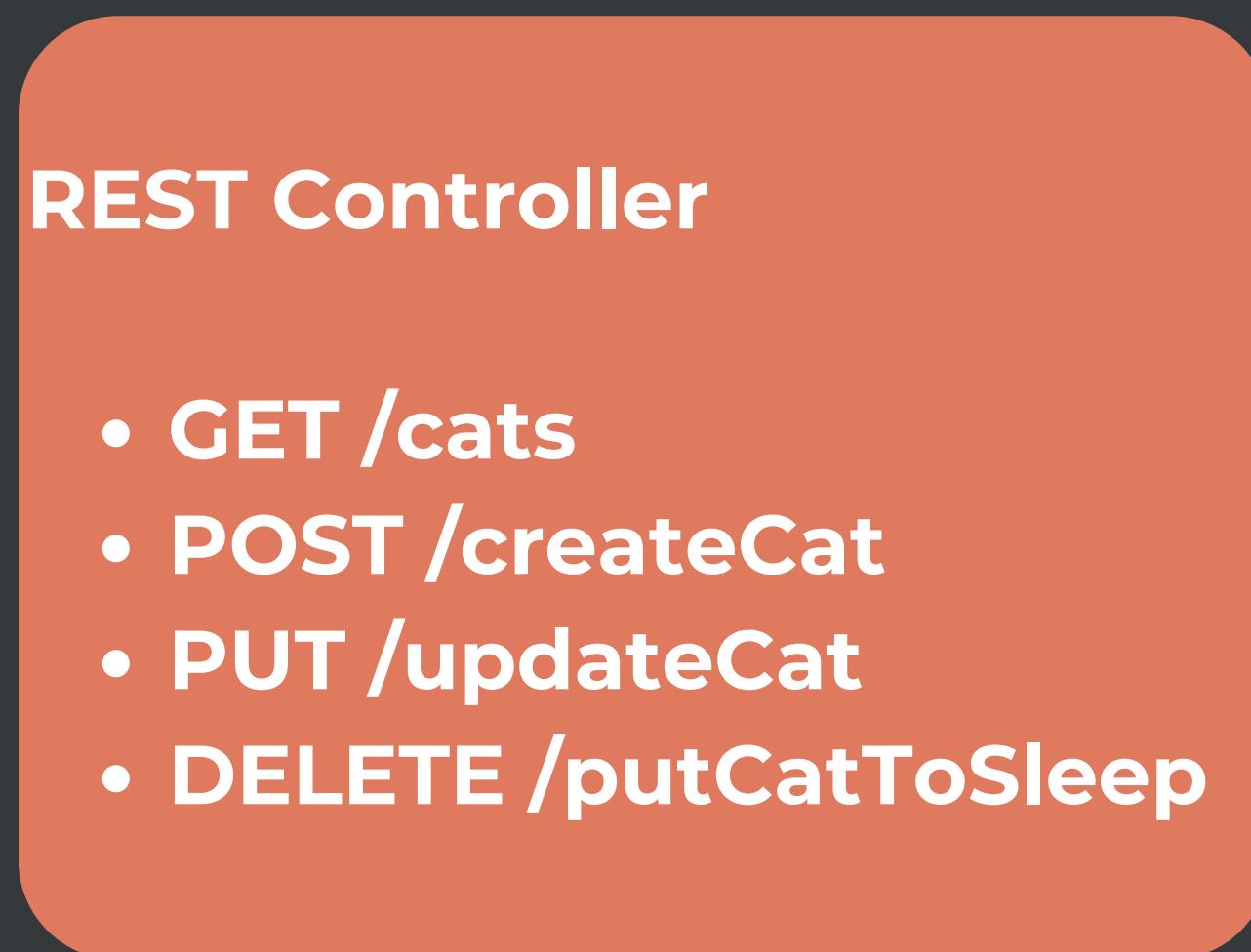
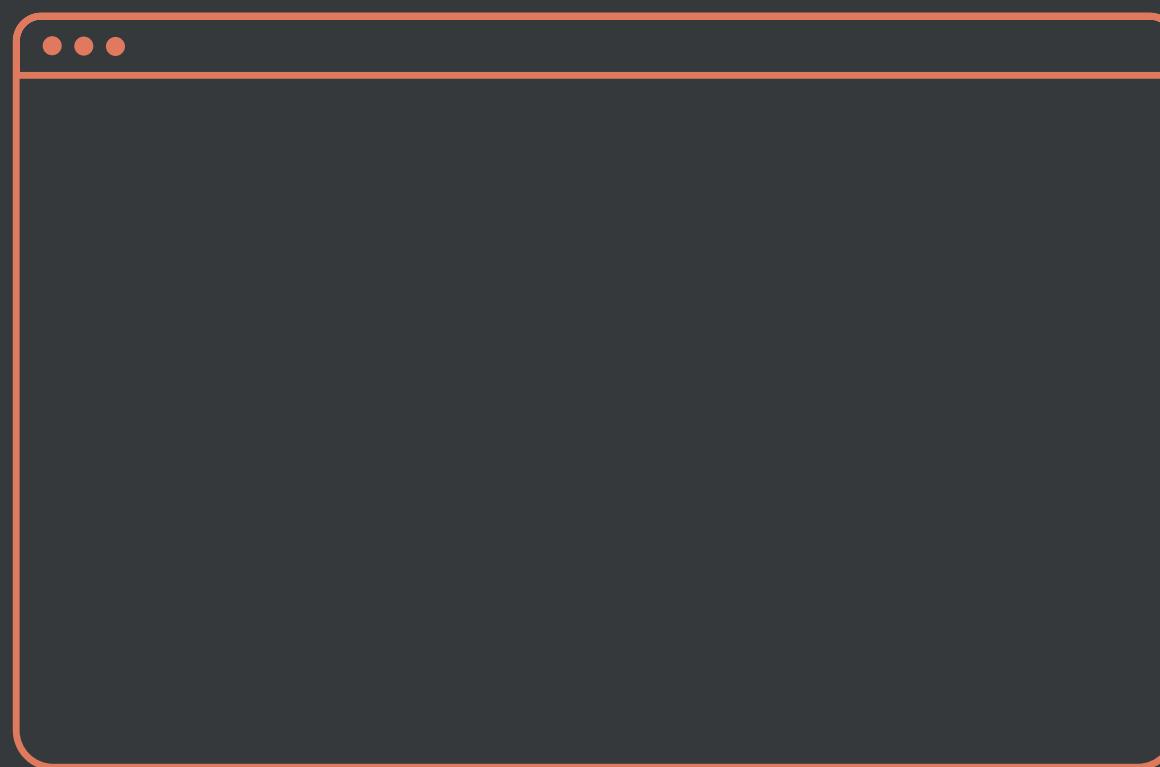
Rest Overview

Client

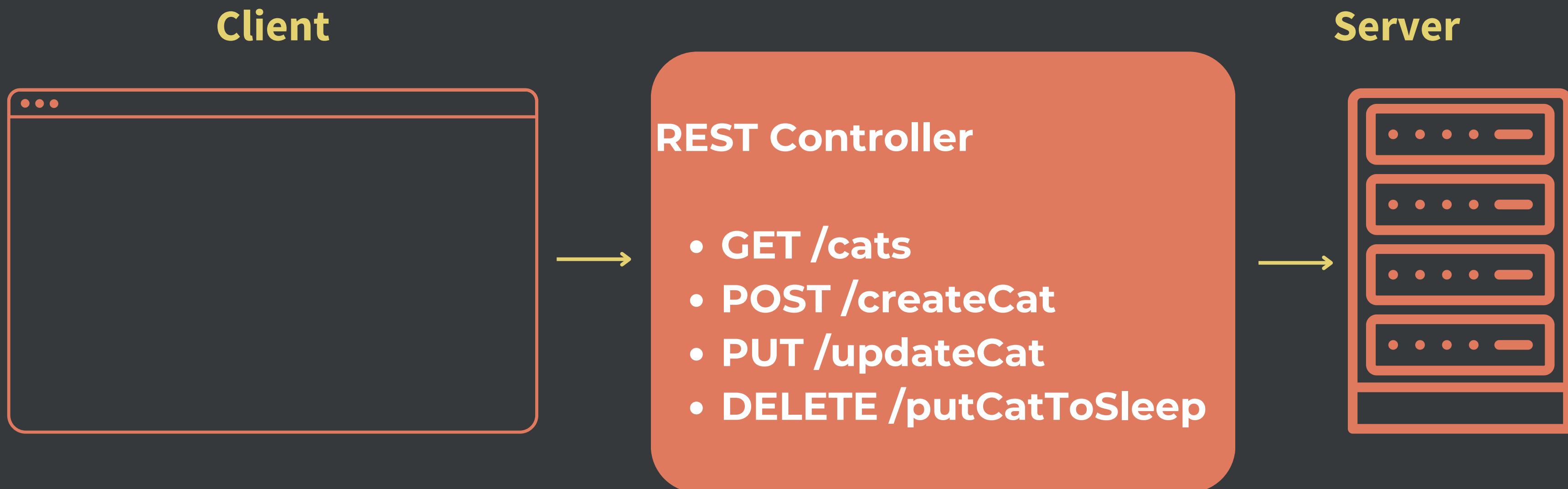


Rest Overview

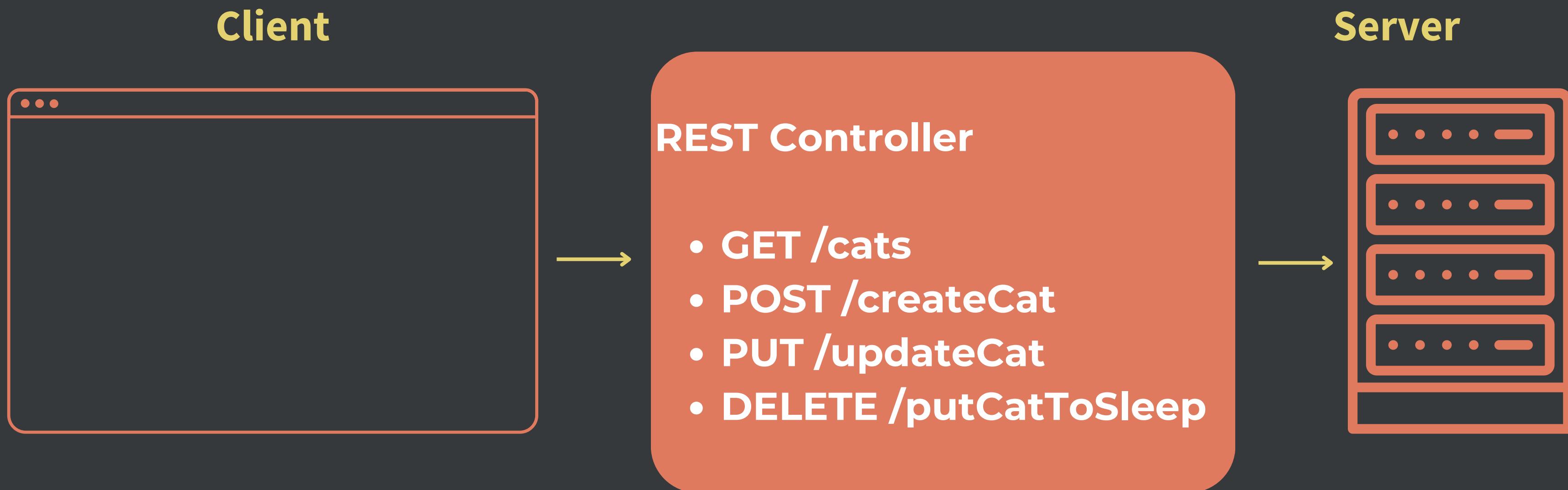
Client



Rest Overview



Rest Overview



Response Codes

100

Informational

200

Success

300

Redirect

Response

400

Client Error

500 Server
Error



Cum funcționează

Cum funcționează

```
$uri = parse_url($_SERVER['REQUEST_URI'], PHP_URL_PATH);
$uri = explode( '/', $uri );f, seed, []);

if ($uri[1] !== 'cats') {
    header( "HTTP/1.1 404 Not Found" );
    exit();
}

$catId = null;
if (isset($uri[2])) {
    $catId = (int) $uri[2];
}

$requestMethod = $_SERVER["REQUEST_METHOD"];

$controller = new PersonController($dbConnection, $requestMethod, $catId);
$controller->processRequest();
```

Cum funcționează

```
public function processRequest()
{
    switch ($this->requestMethod) {
        case 'GET':
            if ($this->catId) {
                $response = $this->getCat($this->catId);
                // Rezolve for a cat
            } else {
                // Rezolve for all cats
            };
            break;
        case 'POST':
            // ...
            break;
        case 'PUT':
            // ...
            break;
        case 'DELETE':
            // ...
            break;
        default:
            $response = $this->notFoundResponse();
            break;
    }
    header($response['status_code_header']);
    if ($response['body']) {
        echo $response['body'];
    }
}
```

Cum funcționează

```
private function notFoundResponse( )
{
    $response[ 'status_code_header' ] = 'HTTP/1.1 404 Not Found';
    $response[ 'body' ] = null;
    return $response;
}
```

Cum funcționează

```
private function getAllCats()
{
    $result = $this->catsDB->findAll();
    $response['status_code_header'] = 'HTTP/1.1 200 OK';
    $response['body'] = json_encode($result);
    return $response;
}
```

Exerciții

**“EDUCATION IS LEARNING
WHAT YOU DIDN’T EVEN
KNOW YOU DIDN’T KNOW.”**

— Daniel J. Boorstin