Data Representation Lab 05.3: AJAX calls to REST

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In this lab we want to make the AJAX calls that will call the RESTful API

• The server serves out a RESTfull api that performs CRUD operations on cars

Action	Method	URL	Sample params	Sample return
Get all	GET	/cars	none	{ cars:[{},{},{}]
Find by id	GET	/cars/reg	none	{car:
Create	POST	/cars	{ "reg":"12 D 1234", "make":"Fiat", "model":"Punto", "price":3000 }	{ "reg":"12 D 1234", "make":"Fiat", "model":"Punto", "price":3000 }
Update	PUT	/cars/reg	{ "price":3000 }	{ "reg":"12 D 1234", "make":"Fiat", "model":"Punto", "price":3000 }
delete	DELETE	/cars/reg	none	{ "done":true }

- 1. Copy the server from the lecture folder and run it and test it.
- 2. Test that we can call the server from the web page, by creating a webpage called testgetall.html.
- 3. open browser and open http://127.0.0.1:5000/testgetall.html

4. If you get this error,

it is because you opened the html file directly and did not through the server. Id the url looks like. file:///C:/morespace/Dropbox/gmit/dataRepresentation/code/week05-REST/testgetall.html

EXTRA: Modify this page so that it stores each of the cars to the table (You have the code from week 2 that adds a car to a table, you just need to call it from success function for each car)

Create

5. Make a web page that tests the create (call it *testCreate.html*)

Update

6. Test the update (call it testUpdate.html)

```
function updateCar() {
    var car = {"reg":"181 G 1234","make":"Ford","model":"Modeo","p
rice":"00"}

console.log(JSON.stringify(car));
    $.ajax({
        "url": "http://127.0.0.1:5000/cars/"+encodeURI(car.reg),
        "method":"PUT",
        "data":JSON.stringify(car),
        "dataType": "JSON",
        contentType: "application/json; charset=utf-8",
        "success":function(result) {
            console.log(result);
            document.getElementById("output").innerText = JSON.str
ingify(result);
    },
    "error":function(xhr,status,error) {
            console.log("error: "+status+" msg:"+error);
        }
    });
}
```

Delete

7. Test delete (call it testDelete.html)

```
function deleteCar() {
    var car = {"reg":"12 D 1234"}
    console.log(JSON.stringify(car));
    $.ajax({
        "url": "http://127.0.0.1:5000/cars/"+encodeURI(car.
reg),

    "method":"DELETE",
    "data":"",
    "dataType": "JSON",
    contentType: "application/json; charset=utf-8",
    "success":function(result) {
        console.log(result);
        document.getElementById("output").innerText = J
SON.stringify(result);
    },
    "error":function(xhr,status,error) {
        console.log("error: "+status+" msg:"+error);
    }
});
}
```