

## CEN3024C Module 5 Project

For this project we will be implementing a CORS policy at the global level and a "one-off" method-level policy to the PizzaRestaurant project. We will also be adding support for a password for the customers.

### 1. Add a global policy using a configuration class (add this in a new "config" package):

```
@Configuration
public class CorsConfig implements WebMvcConfigurer {
    @Override
    public void addCorsMappings(CorsRegistry registry) {
        registry.addMapping("/**")
            .allowedOrigins("http://example.com")
            .allowedMethods("GET", "POST", "PUT", "DELETE")
            .allowedHeaders("*")
            .allowCredentials(true);
    }
}
```

### 2. Choose an endpoint in your controllers and add a method-based policy:

```
@CrossOrigin(origins = "http://example2.com",
    methods = {RequestMethod.GET, RequestMethod.POST},
    allowedHeaders = "*", allowCredentials = "true")
```

I added mine to the `@GetMapping("/{pizzatype}")` endpoint in the `PizzaController` class. Technically it doesn't matter if the `@CrossOrigin` annotation preceeds or follows the `@GetMapping` annotation, but convention dictates that it should go before `@GetMapping`.

Test and verify the correct operation of your policies with curl by specifying the Origin field.

- Any request using the **example.com** origin should return a 200 and display the corresponding data, e.g.,

```
curl -i -H "Origin: http://example.com" -X GET http://localhost:8080/api/customers
```

```
HTTP/1.1 200
```

```
...
```

```
[{"lastName":"Brown","firstName":"Sally","address":"2 Pine Ln.,"phoneNumber":"407-555-2323","userId":"sallybrown","email":null}, {"lastName":"Smith","firstName":"John","address":"1 Oak St.,"phoneNumber":"904-555-1212","userId":"johnsmith","email":null}]
```

- Any request using the **example2.com** origin should return a 403 and display an "Invalid CORS request" error, except for the request where you have added the method-based policy, e.g.,

```
curl -i -H "Origin: http://example2.com" -X GET http://localhost:8080/pizzas/pepperoni
```

```
HTTP/1.1 403
```

...  
Invalid CORS request

**3. Add a salt and hash field to the customer entry and a password field to the customer DTO. Use the code examples provided in the lecture slides to provide code that creates a new user using the `userId` field (not the `customerId`) as the identifier. Verify the `userId` does not exist before adding the user.**

Submit your solution to the GitHub classroom assignment repo.