בחרנו רק בתלות של spring web

וסתם יצרנו rest controller

```java
package com.example.demo.student;

public class Student {

    private final Integer studentId;
    private final String studentName;

    public Student(Integer studentId, String studentName) {
        this.studentId = studentId;
        this.studentName = studentName;
    }

    public Integer getStudentId() {
        return studentId;
    }

    public String getStudentName() {
        return studentName;
    }
}
```
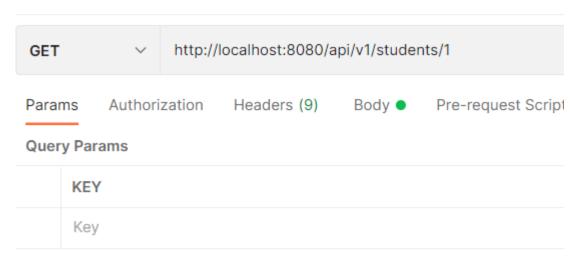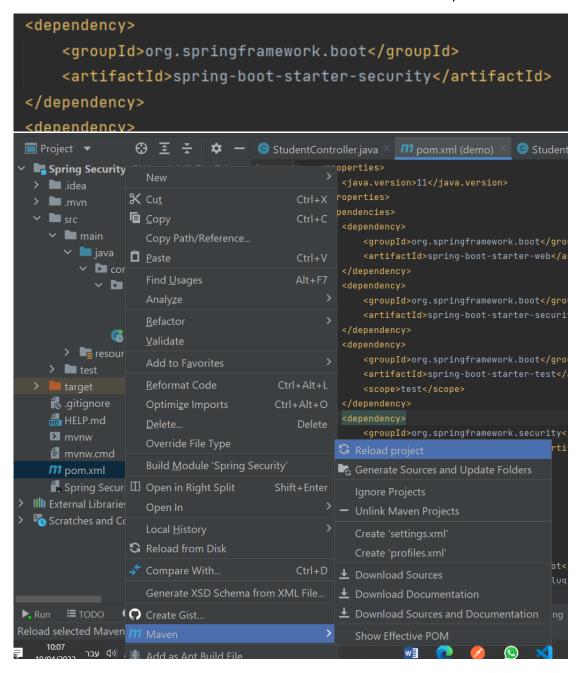
```java
@RestController
@RequestMapping("api/v1/students")
public class StudentController {

    private static final List<Student> studentList = List.of(
            new Student( studentId: 1,  studentName: "James Bond"),
            new Student( studentId: 2,  studentName: "Shay Gali"),
            new Student( studentId: 3,  studentName: "Anna Smith")
    );

    @GetMapping(path = "/{studentId}")
    public Student getStudent(@PathVariable("studentId") Integer studentId) {
        return studentList.stream()
                .filter(student -> studentId.equals(student.getStudentId()))
                .findFirst()
                .orElseThrow(()-> new IllegalStateException("Student "+studentId+" dose noe exist"));
    }
}
```

GET http://localhost:8080/ ● | GET http://localhost:8080/2 ● | PUT http://localho

http://localhost:8080/api/v1/students/1

| GET ∨ | http://localhost:8080/api/v1/students/1 |

Params | Authorization | Headers (9) | Body ● | Pre-request Script

Query Params

	KEY
	Key

Body | Cookies (1) | Headers (5) | Test Results

Pretty | Raw | Preview | Visualize | JSON ∨ | ⇄

```
1  {
2      "studentId": 1,
3      "studentName": "James Bond"
4  }
```

Name	Value	Domain	Path	Expires	HttpOnly	Secure
JSESSIONID	FCE6C54944...	localhost	/	Session	true	false

KEY		VALUE
Content-Type	ⓘ	application/json
Transfer-Encoding	ⓘ	chunked
Date	ⓘ	Tue, 19 Apr 2022 07:01:38 GMT
Keep-Alive	ⓘ	timeout=60
Connection	ⓘ	keep-alive

אחרי זה הוספנו את Spring Security ל pom.xml שלנו

ואז רעננו את הפרויקט

```xml
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-security</artifactId>
</dependency>
<dependency>
```

עכשיו אם ננסה לשלוח את זה בpostman לא נקבל 401

KEY		VALUE
Set-Cookie	ⓘ	JSESSIONID=AB75F7BC32C87A097D415C2E70C15495; Path=/; HttpOnly
WWW-Authenticate	ⓘ	Basic realm="Realm"
X-Content-Type-Options	ⓘ	nosniff
X-XSS-Protection	ⓘ	1; mode=block
Cache-Control	ⓘ	no-cache, no-store, max-age=0, must-revalidate
Pragma	ⓘ	no-cache
Expires	ⓘ	0
X-Frame-Options	ⓘ	DENY
Content-Length	ⓘ	0
Date	ⓘ	Tue, 19 Apr 2022 07:09:18 GMT
Keep-Alive	ⓘ	timeout=60
Connection	ⓘ	keep-alive

Body Cookies (1) Headers (12) Test Results   Status: 401 Unauthorized Time: 658 ms Size: 429 B   Save Response ∨

ואם נכנס לדפדפן הוא יישר יישלח אותנו לעשות login

נוכל לראות בconsole שלנו את הסיסמא שלנו

ואז הוא ינווט אותנו לדף שבאנו ממנו

אפשר לראות את הבקשה

▼ **General**

   Request URL: http://localhost:8080/login

   Request Method: POST

   Status Code: 🟡 302

   Remote Address: [::1]:8080

   Referrer Policy: strict-origin-when-cross-origin

  X-XSS-Protection: 1; mode=block

▼ **Request Headers**   View source

  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9

  Accept-Encoding: gzip, deflate, br

  Accept-Language: he-IL,he;q=0.9,en-US;q=0.8,en;q=0.7

  Cache-Control: max-age=0

  Connection: keep-alive

  Content-Length: 102

  Content-Type: application/x-www-form-urlencoded

  Cookie: Webstorm-841bbf13=863c1268-574c-4831-8d7e-5d5dcf862329; _xsrf=2|3e8e16f2|1139c02316bc5b3020a81a36e9d1b8d8|1648551142; username-localhost-8888="2|1:0|10:1649154548|23:username-localhost-8888|44:OThjZmM0NjEwNDFiNDg4MDk5MThjYzk1YmM5NTAyOTE=|182eaf7deb48d90b85d7186c85c31efffa8eef8c8432e865d047183773f5652d"; JSESSIONID=FB3779EFC16A30D2071C09439A90BF07

  Host: localhost:8080

  Origin: http://localhost:8080

  Referer: http://localhost:8080/login

  sec-ch-ua: " Not A;Brand";v="99", "Chromium";v="100", "Google Chrome";v="100"

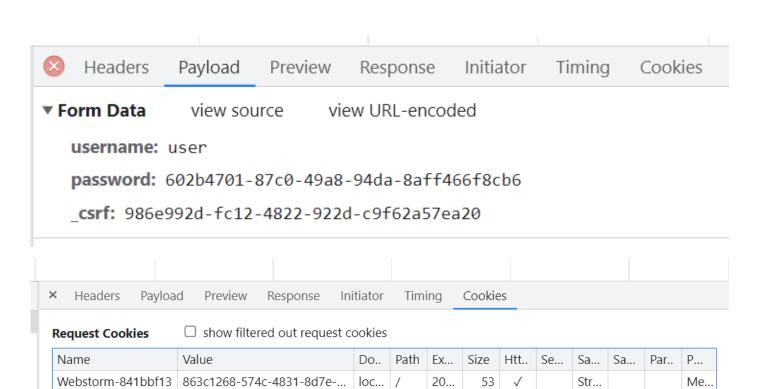 **sec-ch-ua-mobile:** ?0

  sec-ch-ua-platform: "Windows"

  Sec-Fetch-Dest: document

  Sec-Fetch-Mode: navigate

  Sec-Fetch-Site: same-origin

Sec-Fetch-User: ?1

Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/100.0.4896.127 Safari/537.36

Headers　Payload　Preview　Response　Initiator　Timing　Cookies

▼ **Form Data**　　view source　　view URL-encoded

　username: user

　password: 602b4701-87c0-49a8-94da-8aff466f8cb6

　_csrf: 986e992d-fc12-4822-922d-c9f62a57ea20

✕　Headers　Payload　Preview　Response　Initiator　Timing　Cookies

Request Cookies　　☐ show filtered out request cookies

Name	Value	Do..	Path	Ex..	Size	Htt..	Se..	Sa...	Sa...	Par..	P...
Webstorm-841bbf13	863c1268-574c-4831-8d7e-...	loc...	/	20...	53	✓		Str...			Me...
_xsrf	2|3e8e16f2|1139c02316bc5...	loc...	/	20...	59						Me...
username-localhos...	"2|1:0|10:1649154548|23:use...	loc...	/	20...	184	✓					Me...
JSESSIONID	FB3779EFC16A30D2071C09...	loc...	/	Se...	42	✓					Me...

Response Cookies

Name	Value	Do..	Path	Ex..	Size	Htt..	Se..	Sa...	Sa...	Par..	P...
JSESSIONID	0ECFE7471AFB14FAB990EB...	loc...	/	Se...	61	✓					Me...