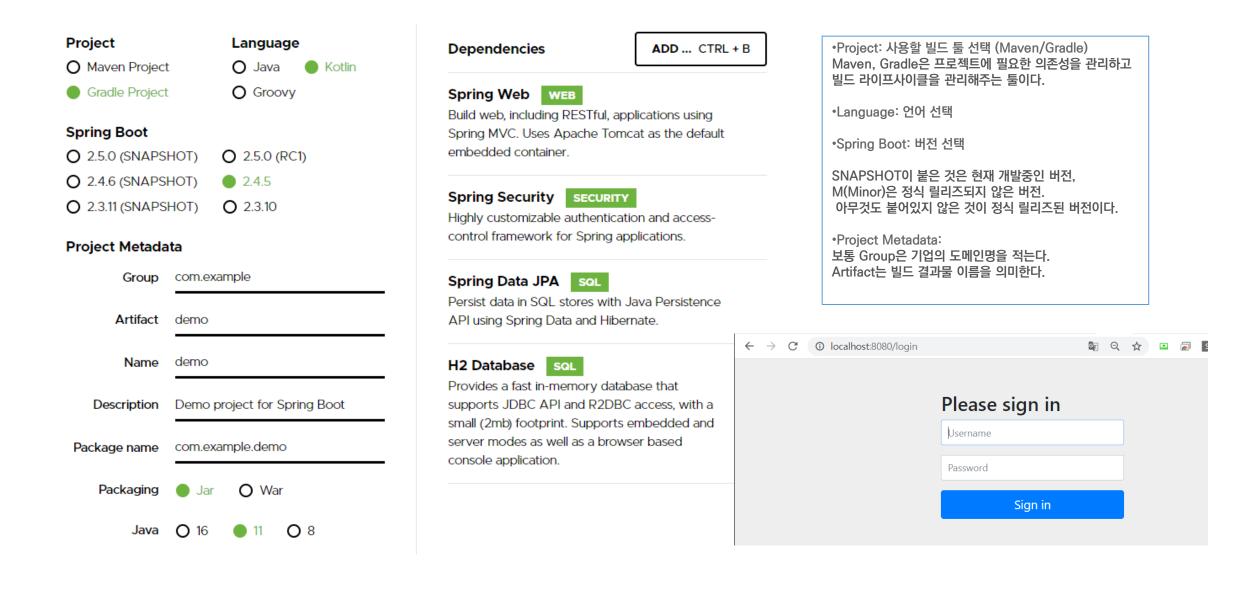
05. Git

컴퓨터공학부 201911228 홍지우

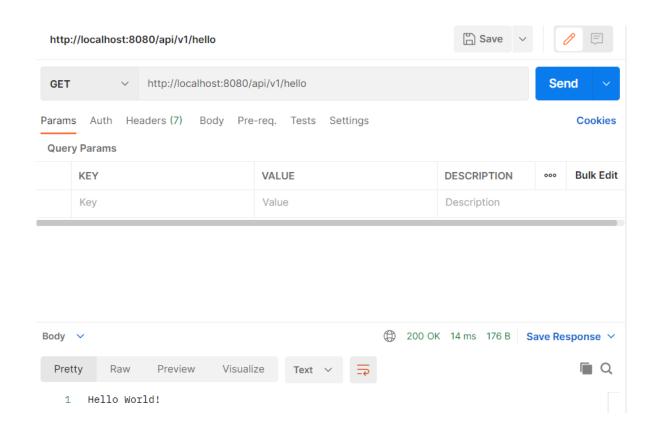
01. Spring Initializr[https://start.spring.io]에서 간단한 SpringBoot 프로젝트를 만들어서 Intellij로 열어보세요



02. RestController - GetMapping[1]

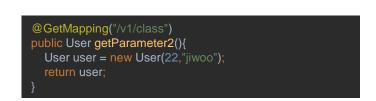
- RestController 어노테이션과, GetMapping 어노테이션을 사용해서 "hello, world"를 반환하는 컨트롤러 클래스를 작성
- endpoint 정의는 "/api/v1/hello"

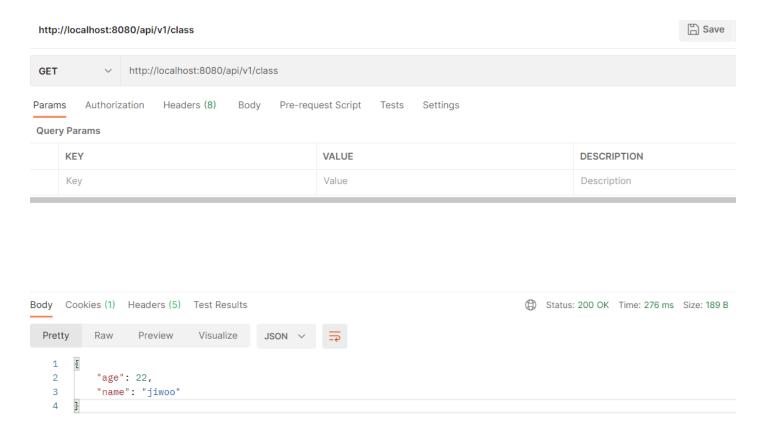
```
@RestController
@RequestMapping("api")
public class GetController{
    @GetMapping("/v1/hello")
    public String getParameter(){
        return "Hello World!";
    }
}
```



03. RestController - GetMapping[2]

- RestController 어노테이션과, GetMapping 어노테이션을 사용해서 특정 클래스를 반환하는 컨트롤 러 클래스를 작성
- endpoint 정의는 "/api/v1/class"





04. RestController - GetMapping - Service

- Service와 DI 개념을 사용해서 본인 프로필 클래스를 반환하는 컨트롤러 클래스를 작성
- endpoint 정의는 "/api/v1/profile"

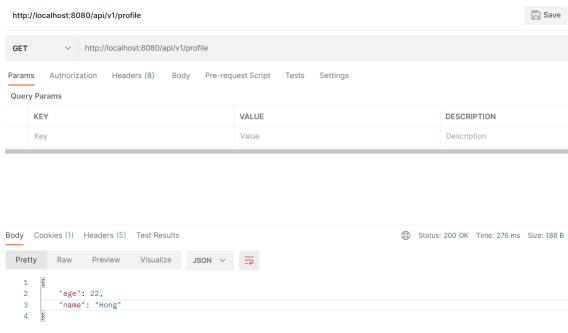
```
package hello.hellospring;

public class User {
  int age;
  String name;

public User(int age, String name) {
    this.age = age;
    this.name = name;
  }

public User() {
  }
}
```





05. "Hello World" 리턴하는 컨트롤러를 PostMan으로 테스트 하는 대신, 테스트 코드를 사용 / 실행해서 테스트

```
BUILD SUCCESSFUL in 8s
4 actionable tasks: 1 executed, 3 up-to-date
오후 6:37:46: Task execution finished ':test --tests "hello.hellospring.controller.GetControllerTest"'.
```

06. 미션 4에서 진행했던 컨트롤러, 서비스 모두 테스트 대상에 포함

```
@RunWith(SpringRunner.class)
@SpringBootTest
class UserServiceImplTest {
    @Autowired
    private UserServiceImpl userServiceImple;
    @Test
    void getUsers() {
        User user1 = userServiceImple.getUsers();
        User user2 = new User(22, "Hong");
        assertThat(user1.getAge()).isEqualTo(user2.getAge());
    }
}
```

```
@RunWith(SpringRunner.class)
@SpringBootTest(webEnvironment = SpringBootTest.WebEnvironment.RANDOM_PORT)
class UserControllerTest {
  @LocalServerPort
  int port = 0;

  @Autowired
  TestRestTemplate restTemplate;

  @Test
  public void userController() throws Exception{
    User user = new User(22,"Hong");
    String str = "http://localhost:"+port+"/api/v1/profile";

    User user2 = restTemplate.getForObject(str, User.class);
    assertThat(user.getAge()).isEqualTo(user2.getAge());
}
```

```
BUILD SUCCESSFUL in 9s
4 actionable tasks: 1 executed, 3 up-to-date
오후 6:36:08: Task execution finished ':test --tests "hello.hellospring.service.UserServiceImplTest.getUsers"'.
```

```
BUILD SUCCESSFUL in 10s
4 actionable tasks: 1 executed, 3 up-to-date
오후 6:36:54: Task execution finished ':test --tests "hello.hellospring.controller.UserControllerTest"'.
```