TestRestTemplate

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package integration.tests.web.layer;
import java.net.URI;
import java.net.URISyntaxException;
import org.assertj.core.api.Assertions;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.boot.test.context.SpringBootTest.WebEnvironment;
import org.springframework.boot.test.web.client.TestRestTemplate;
import org.springframework.http.HttpEntity;
import org.springframework.http.HttpMethod;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.test.context.jdbc.Sql;
import integration.tests.web.layer.person.Person;
import integration.tests.web.layer.person.PersonRepository;
@SpringBootTest(webEnvironment = WebEnvironment.RANDOM_PORT)
class TestRestTemplateIntegrationTest {
    @Autowired
    private TestRestTemplate testRestTemplate;
    @Autowired
    private PersonRepository personRepository;
    @AfterEach
    public void cleanUp() {
         personRepository.deleteAll();
    }
    @Test
    @Sql(statements = "INSERT INTO person (name, age) VALUES ('Mark',
40)")
    public void getTest() throws URISyntaxException {
         ResponseEntity<Person> responseGetForEntity =
testRestTemplate.getForEntity(new URI("/"), Person.class);
Assertions.assertThat(responseGetForEntity.getBody().getName()).isEqualTo("
Mark");
```

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Assertions.assertThat(responseGetForEntity.getStatusCode()).isEqualTo(HttpS
tatus.OK);
         Person responseGetForObject = testRestTemplate.getForObject("/",
Person.class);
Assertions.assertThat(responseGetForObject.getName()).isEqualTo("Mark");
    }
    @Test
    public void postTest() {
         ResponseEntity<Person> responsePostForEntity =
testRestTemplate.postForEntity("/",
                   new Person("John", 62), Person.class);
Assertions.assertThat(responsePostForEntity.getBody().getName()).isEqualTo("
John");
Assertions.assertThat(responsePostForEntity.getStatusCode()).isEqualTo(Http
Status.CREATED);
         Person responsePostForObject =
testRestTemplate.postForObject("/",
                   new Person("Doe", 45), Person.class);
Assertions.assertThat(responsePostForObject.getName()).isEqualTo("Doe");
    }
    @Test
    @Sql(statements = "INSERT INTO person (id, name, age) VALUES (99,
'Mark', 57)")
    public void putTest() {
         testRestTemplate.put("/", new Person(99,"Len", 57));
         Person person = personRepository.findById(99).get();
         Assertions.assertThat(person.getName()).isEqualTo("Len");
    }
    @Test
    @Sql(statements = "INSERT INTO person (id, name, age) VALUES (50,
'Len', 57)")
    public void deleteTest() {
         testRestTemplate.delete("/{id}", 50);
         Long count = personRepository.count();
         Assertions.assertThat(count).isEqualTo(0);
```