

Projekt - część 2

...

Rozkład jazdy - dzień 2

Slot 1: 9:00 - 10:20 Spring Boot

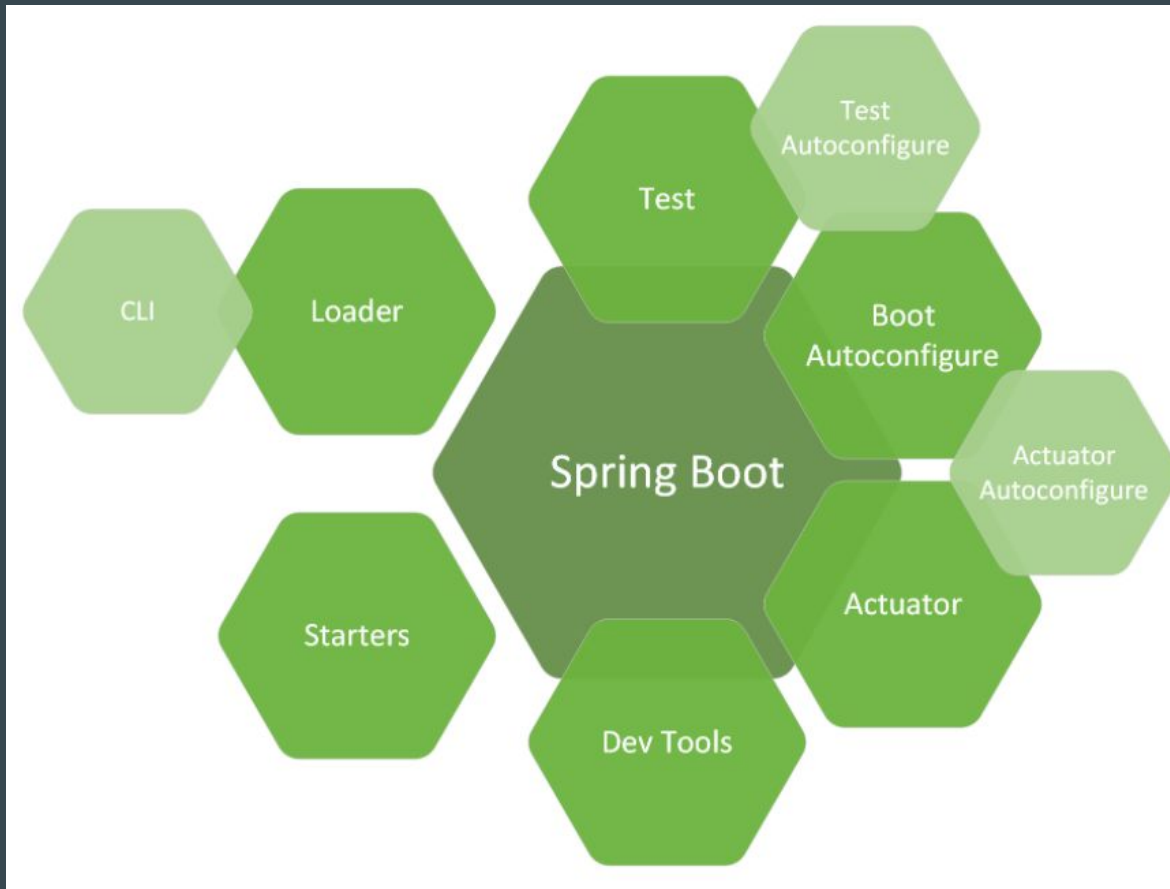
Slot 2: 10:30 - 11:40 Rest API

Slot 3: 11:50 - 13:00 Bazy danych

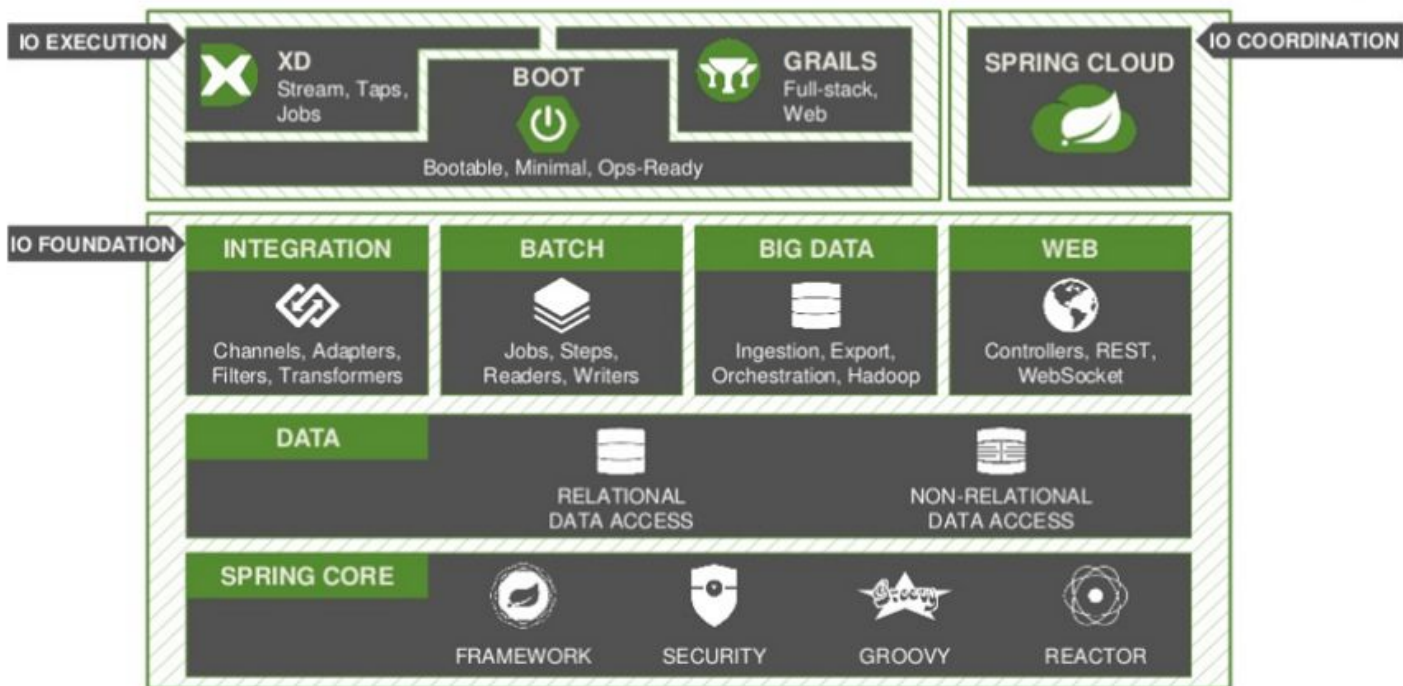
Przerwa: 13:00 - 13:30

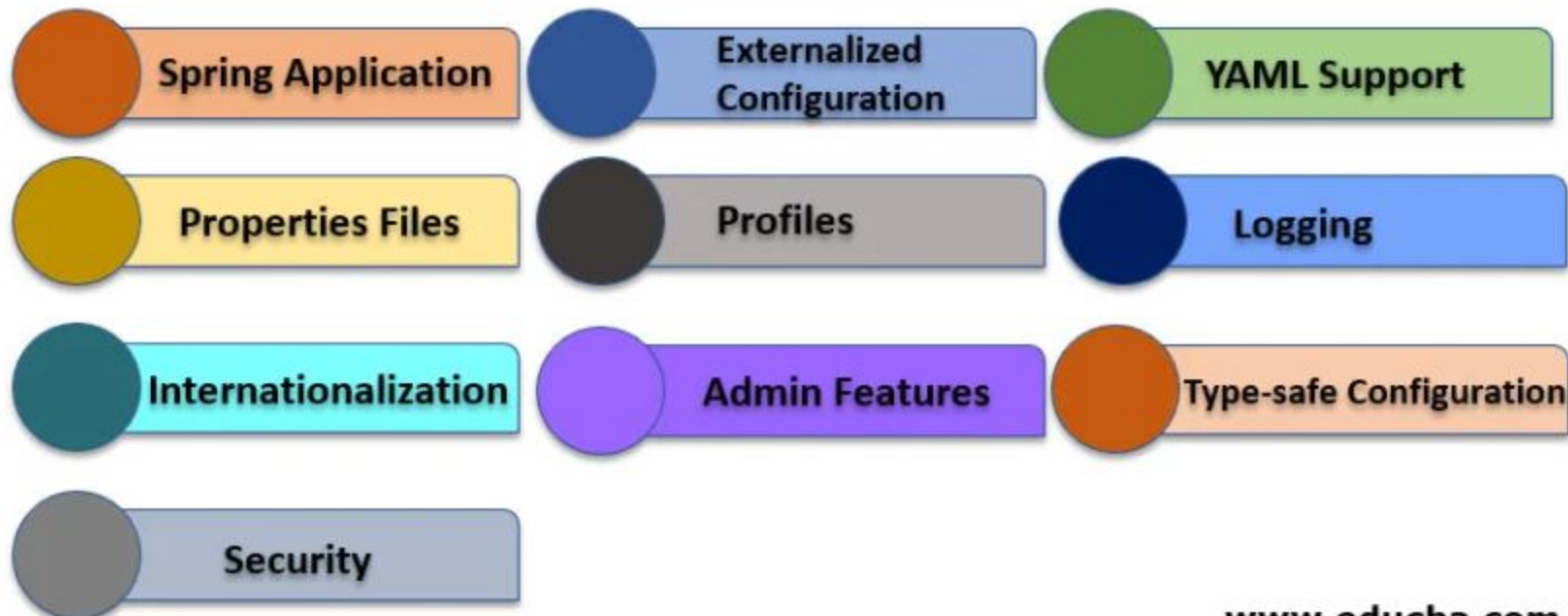
Slot 4: 13:30 - 15:00

Slot 5: 15:10 - 16:30



Spring IO Platform







Project

☒ Maven Project ☐ Gradle Project

Language

☒ Java ☐ Kotlin ☐ Groovy

Spring Boot

☐ 2.6.2 (SNAPSHOT) ☒ 2.6.1 ☐ 2.5.8 (SNAPSHOT) ☐ 2.5.7

Project Metadata

Group

Artifact

Name

Description

Package name

Packaging ☒ Jar ☐ War

Java ☐ 17 ☐ 11 ☒ 8

Dependencies

[ADD DEPENDENCIES...](#) CTRL + B

Spring Web

WEB

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Spring Data JPA

SQL

Persist data in SQL stores with Java Persistence API using Spring Data and Hibernate.

Spring Boot DevTools

DEVELOPER TOOLS

Provides fast application restarts, LiveReload, and configurations for enhanced development experience.

Lombok

DEVELOPER TOOLS

Java annotation library which helps to reduce boilerplate code.

H2 Database

SQL

Provides a fast in-memory database that supports JDBC API and R2DBC access, with a small (2mb) footprint. Supports embedded and server modes as well as a browser based console application.

Spring Boot - Top 8 adnotacji

@Bean

@Service

@Component

@Configuration

@Autowired

@Qualifier

@SpringBootApplication

@Controller

@RequestMapping

@Scheduled

@EnableScheduling

REST API

Representational State Transfer
Application Programming Interface

- Uniform interface
- Client-server architecture
- Stateless
- Cacheable
- Layered System

Rest API Basics

Typical HTTP Verbs:

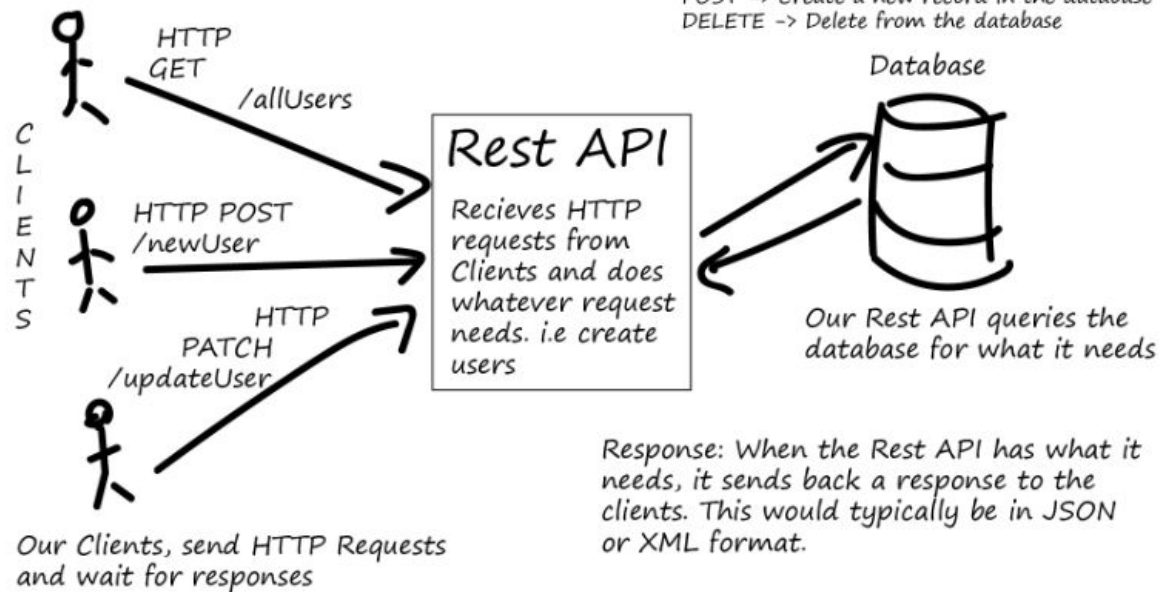
GET -> Read from Database

PUT -> Update/Replace row in Database

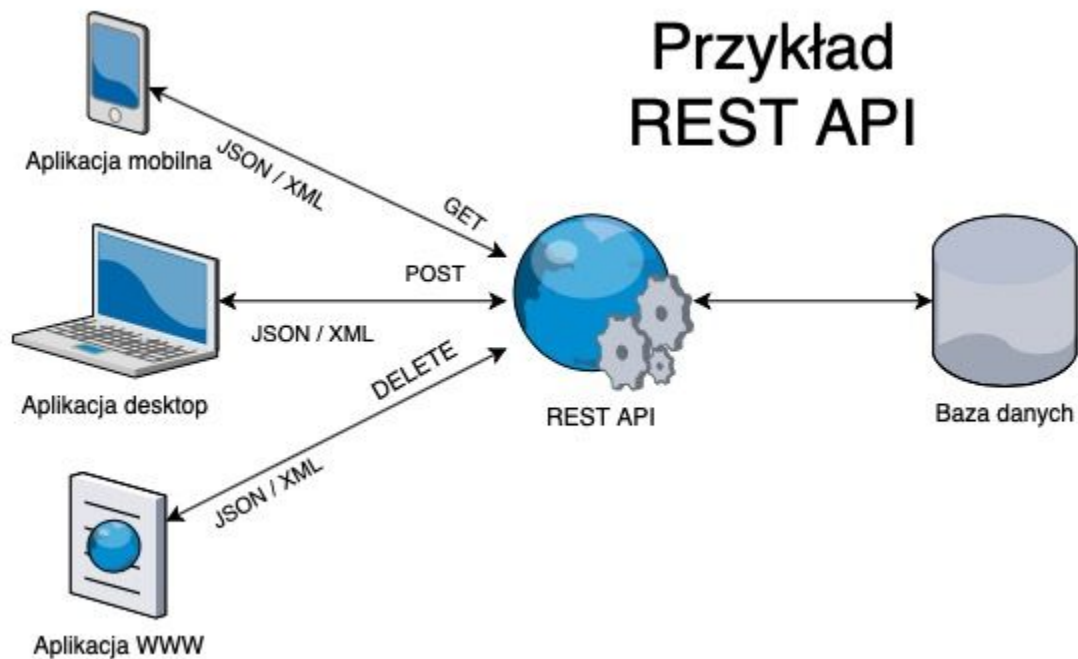
PATCH -> Update/Modify row in Database

POST -> Create a new record in the database

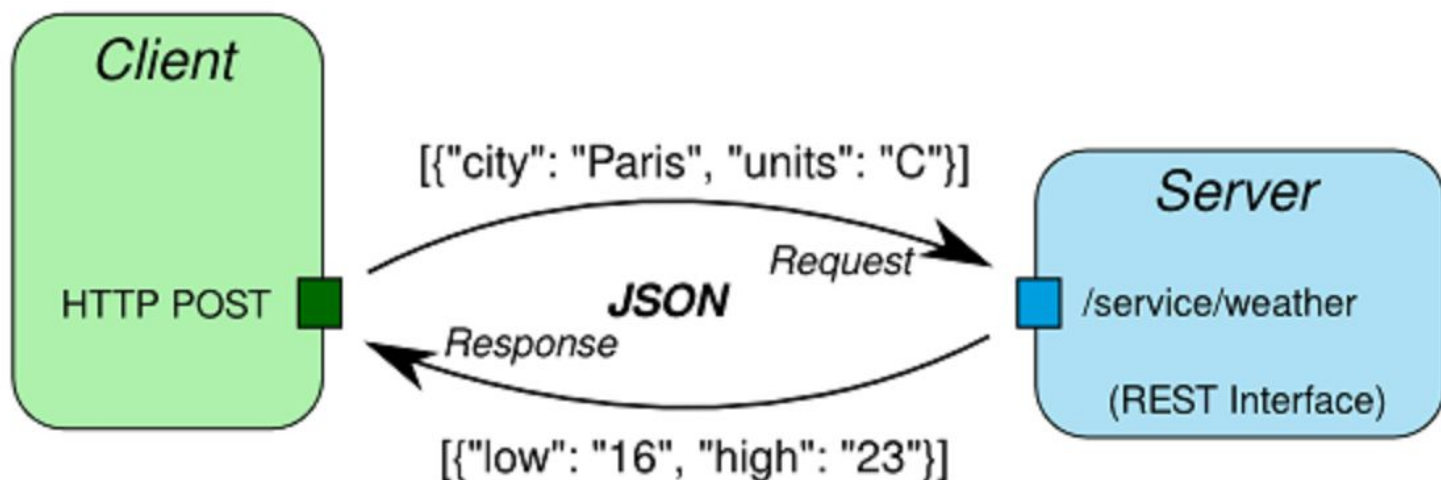
DELETE -> Delete from the database



Przykład REST API



RESTful Web Service in Java



TODO: Projektujemy i implementujemy API

```
@GetMapping("/books")  
public List<Book> findAll(@RequestParam(required = false) String title) {  
    if (title != null) {  
        return bookCatalog.findBy(new Title(title));  
    } else {  
        return bookCatalog.findAll();  
    }  
}
```

```
@RequestMapping(value = "/books/{bookId}", method = RequestMethod.DELETE)
public ResponseEntity delete(@PathVariable("bookId") String bookId) { return ResponseEntity.ok().build(); }
```

Bazy danych

Pogadajmy o architekturze ?



Ankieta

https://forms.office.com/Pages/ResponsePage.aspx?id=9m29-UnEH0irtTe9A2vr4UfNG_SqhKtw4Rkfq9QFFUOFIzSUhYQUROSFFZMIFKQU9DQVhMOTdKSi4u