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Semana Spring React - Episódio 2

Crie um app completo para seu portfólio com as tecnologias mais demandadas do mercado

Realização

[DevSuperior](#) - Escola de programação



Objetivos do projeto para esta aula

- Implementar o back end
- Acesso a banco de dados
- Criar endpoints da API REST
- Integração com SMS
- Implantação na nuvem

AVISO: as aulas ficarão disponíveis somente até domingo às 23h59

Checklist

Ferramentas

- Postman (Vídeo: <https://youtu.be/CWKLvapcnCU>)
- Heroku CLI (Vídeo: <https://youtu.be/70LUh5KNaEk>)

Passo: configuração de segurança

```
import java.util.Arrays;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.config.http.SessionCreationPolicy;
import org.springframework.security.web.SecurityFilterChain;
import org.springframework.web.cors.CorsConfiguration;
import org.springframework.web.cors.CorsConfigurationSource;
import org.springframework.web.cors.UrlBasedCorsConfigurationSource;
```

```
@Configuration
@EnableWebSecurity
public class SecurityConfig {

    @Bean
    public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {

        http.headers().frameOptions().disable();
        http.cors().and().csrf().disable();
        http.sessionManagement().sessionCreationPolicy(SessionCreationPolicy.STATELESS);
        http.authorizeHttpRequests((auth) -> auth.anyRequest().permitAll());

        return http.build();
    }

    @Bean
    CorsConfigurationSource corsConfigurationSource() {
        CorsConfiguration configuration = new CorsConfiguration().applyPermitDefaultValues();
        configuration.setAllowedMethods(Arrays.asList("POST", "GET", "PUT", "DELETE", "OPTIONS"));
        final UrlBasedCorsConfigurationSource source = new UrlBasedCorsConfigurationSource();
        source.registerCorsConfiguration("/**", configuration);
        return source;
    }
}
```

- COMMIT: Security config

Passo: banco de dados

- Criar entidade Sale
- Fazer mapeamento objeto-relacional (JPA)
- Configurar dados de conexão do banco de dados H2

- Fazer seed do banco de dados

application.properties

```
spring.datasource.url=jdbc:h2:mem:testdb
spring.datasource.username=sa
spring.datasource.password=

spring.h2.console.enabled=true
spring.h2.console.path=/h2-console

spring.jpa.show-sql=true
spring.jpa.properties.hibernate.format_sql=true
```

import.sql

```
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',121,67,18196.0,'2022-06-16');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',26,14,4255.0,'2022-06-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',55,42,13249.0,'2022-06-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',73,65,20751.0,'2022-06-10');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',47,25,7318.0,'2022-06-04');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',72,60,15608.0,'2022-06-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',97,68,8901.0,'2022-06-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',68,26,13231.0,'2022-06-02');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',73,53,19476.0,'2022-05-22');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',28,23,20530.0,'2022-05-18');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',83,44,4864.0,'2022-05-13');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',82,43,21753.0,'2022-05-06');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',43,26,7362.0,'2022-05-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',54,23,10549.0,'2022-04-28');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',125,84,13333.0,'2022-04-25');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',44,26,7431.0,'2022-04-23');
```

```
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',46,25,21099.0,'2022-04-19');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',42,28,7217.0,'2022-04-19');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',52,21,10107.0,'2022-04-18');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',121,90,18174.0,'2022-04-17');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',65,14,8095.0,'2022-04-12');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',107,74,11507.0,'2022-04-12');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',140,74,11709.0,'2022-04-09');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',95,91,8288.0,'2022-04-08');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',68,43,17016.0,'2022-04-07');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',21,20,17126.0,'2022-04-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',38,15,7957.0,'2022-03-31');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',53,29,20903.0,'2022-03-29');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',19,10,3987.0,'2022-03-28');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',78,34,20795.0,'2022-03-27');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',83,44,4938.0,'2022-03-26');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',32,12,6926.0,'2022-03-13');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',64,33,8193.0,'2022-03-13');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',39,39,10557.0,'2022-03-05');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',158,84,21601.0,'2022-03-02');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',12,6,7625.0,'2022-02-29');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',82,82,22465.0,'2022-02-27');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',68,56,12595.0,'2022-02-17');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',27,13,4636.0,'2022-02-16');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',52,33,10155.0,'2022-02-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',142,81,13610.0,'2022-02-13');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',81,45,15306.0,'2022-02-08');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',64,35,17460.0,'2022-02-07');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',48,24,21413.0,'2022-02-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',150,82,6505.0,'2022-01-26');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',138,95,7983.0,'2022-01-18');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',70,48,9564.0,'2022-01-16');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',162,84,7302.0,'2022-01-15');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',57,54,9126.0,'2022-01-12');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',78,60,5253.0,'2022-01-06');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',81,53,11553.0,'2022-01-04');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',168,92,6299.0,'2021-12-28');
```

```
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',48,13,22411.0,'2021-12-26');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',107,67,9788.0,'2021-12-24');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',106,62,18942.0,'2021-12-20');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',40,26,11731.0,'2021-12-18');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',101,68,19882.0,'2021-12-18');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',185,100,14618.0,'2021-12-17');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',82,47,7951.0,'2021-12-15');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',86,45,4147.0,'2021-12-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',95,88,12943.0,'2021-12-09');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',75,58,18747.0,'2021-12-02');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',96,50,12624.0,'2021-12-01');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',79,40,14770.0,'2021-11-21');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',73,46,14124.0,'2021-11-20');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',92,58,20953.0,'2021-11-20');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',43,30,9690.0,'2021-11-18');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',58,30,11396.0,'2021-11-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',49,14,5119.0,'2021-11-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',53,23,8206.0,'2021-11-12');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',49,25,8269.0,'2021-11-10');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',53,29,17984.0,'2021-11-09');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',43,26,3056.0,'2021-11-08');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',51,21,8624.0,'2021-11-06');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',64,41,10959.0,'2021-11-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',75,23,15883.0,'2021-10-30');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',51,44,14038.0,'2021-10-27');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',141,81,13535.0,'2021-10-26');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',135,98,17241.0,'2021-10-25');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',116,66,16415.0,'2021-10-19');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',60,44,5329.0,'2021-10-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',63,32,16618.0,'2021-10-07');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',176,100,5062.0,'2021-10-01');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',118,45,22235.0,'2021-09-29');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',150,97,14484.0,'2021-09-26');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',115,63,18081.0,'2021-09-24');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',159,88,16101.0,'2021-09-23');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',76,45,11150.0,'2021-09-22');
```



```
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',65,63,17982.0,'2021-09-09');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',90,68,15927.0,'2021-09-08');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',22,12,9793.0,'2021-09-06');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',19,11,4185.0,'2021-09-05');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',68,21,15541.0,'2021-09-04');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',64,47,7287.0,'2021-09-04');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',153,92,17913.0,'2021-09-04');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',93,53,12648.0,'2021-09-02');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',78,32,12021.0,'2021-08-30');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',94,49,18787.0,'2021-08-29');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',54,28,3974.0,'2021-08-28');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',45,25,5681.0,'2021-08-26');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',11,1,4008.0,'2021-08-14');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',118,80,5218.0,'2021-08-13');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',52,21,21220.0,'2021-08-09');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',127,23,8831.0,'2021-08-06');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',78,23,13900.0,'2021-08-04');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',102,52,22086.0,'2021-08-03');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',54,53,15731.0,'2021-07-31');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Barry Allen',173,93,10816.0,'2021-07-22');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',60,45,17633.0,'2021-07-20');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',138,72,14528.0,'2021-07-19');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',147,96,21582.0,'2021-07-17');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Logan',32,12,9751.0,'2021-07-13');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',83,59,8496.0,'2021-07-08');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',58,48,5283.0,'2021-07-07');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Kal-El',55,35,20474.0,'2021-07-05');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Anakin',84,34,5787.0,'2021-07-01');
INSERT INTO tb_sales(seller_name,visited,deals,amount,date) VALUES ('Padme',79,68,11976.0,'2021-06-27');
```

- COMMIT: Database

Passo: Primeiro teste de endpoint da API REST

- Criar repository
- Criar service
- Criar controller
- COMMIT: API test

Passo: Consulta por data

Consulta customizada:

```
@Query("SELECT obj FROM Sale obj WHERE obj.date BETWEEN :min AND :max ORDER BY obj.amount DESC")
Page<Sale> findSales(LocalDate min, LocalDate max, Pageable pageable);
```

- COMMIT: Date select

Passo: Envio de SMS

Dependências Maven do Twilio

```
<dependency>
  <groupId>com.twilio.sdk</groupId>
  <artifactId>twilio</artifactId>
  <version>8.31.1</version>
</dependency>
```

Variáveis de ambiente no application.properties:

```
twilio.sid=${TWILIO_SID}
twilio.key=${TWILIO_KEY}
```



```
twilio.phone.from=${TWILIO_PHONE_FROM}
twilio.phone.to=${TWILIO_PHONE_TO}
```

Classe SmsService:

```
@Service
public class SmsService {

    @Value("${twilio.sid}")
    private String twilioSid;

    @Value("${twilio.key}")
    private String twilioKey;

    @Value("${twilio.phone.from}")
    private String twilioPhoneFrom;

    @Value("${twilio.phone.to}")
    private String twilioPhoneTo;

    public void sendSms() {

        Twilio.init(twilioSid, twilioKey);

        PhoneNumber to = new PhoneNumber(twilioPhoneTo);
        PhoneNumber from = new PhoneNumber(twilioPhoneFrom);

        Message message = Message.creator(to, from, "Teste").create();

        System.out.println(message.getSid());
    }
}
```

- COMMIT: Twilio SMS

Passo: Implantação no Heroku

Arquivo `system.properties`

```
java.runtime.version=17
```

- Criar app no Heroku
- Definir variáveis de ambiente:
 - TWILIO_SID
 - TWILIO_KEY
 - TWILIO_PHONE_FROM
 - TWILIO_PHONE_TO

```
heroku -v  
heroku login  
heroku git:remote -a <nome-do-app>  
git remote -v  
git subtree push --prefix backend heroku main
```

PARABÉNS!



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