

Aula 02 – Spring Data

Novas Dependências

- H2 Console

```
<dependency>  
    <groupId>com.h2database</groupId>  
    <artifactId>h2</artifactId>  
    <scope>runtime</scope>  
</dependency>
```

- Spring Data / JPA

```
<dependency>  
    <groupId>org.springframework.boot</groupId>  
    <artifactId>spring-boot-starter-data-jpa</artifactId>  
</dependency>
```

Properties

Arquivo **application.properties**:

spring.profiles.active=test

Arquivo **application-test.properties**:

spring.datasource.url=jdbc:h2:mem:testdb

spring.datasource.username=sa

spring.datasource.password=

#spring.jpa.show-sql=true

#spring.jpa.properties.hibernate.format_sql=true

Novas Anotações

- **@Repository**
Define uma classe como repositório
- **@Entity**
Define uma classe com entidade do JPA
- **@Table**
Nome da Tabela
- **@Id**
Define um atributo como chave primária
- **@GeneratedValue(strategy = GenerationType.IDENTITY)**
Geração automática da chave primária

Repositório

```
package com.facens.poo.sistema.sistema.repositories;

import com.facens.poo.sistema.sistema.entities.Client;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

@Repository
public interface ClientRepository extends JpaRepository <Client, Long>{

}
```

Entidade:

```
@Entity
@Table(name = "tb_client")
public class Client implements Serializable{

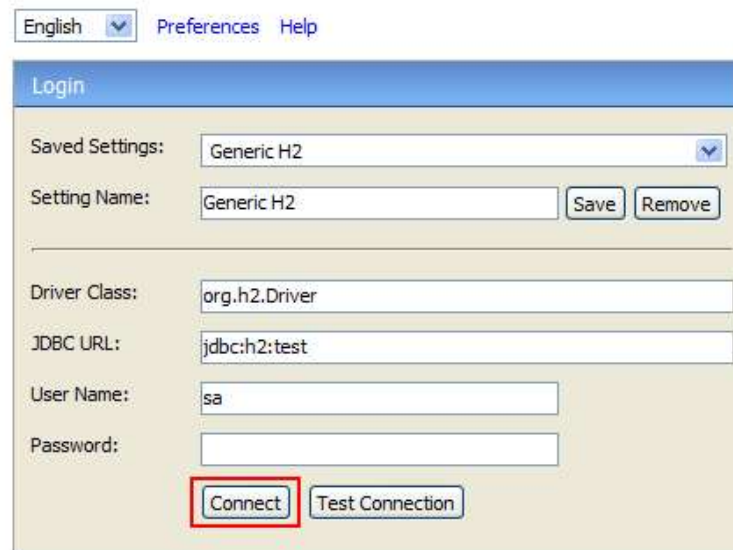
    private static final long serialVersionUID = 1L;

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private Long id;

    // Demais Código
    // Não esquecer de gerar equal/hashCode !!!!!
```

Acessando o H2-Console

URL -> <http://localhost:8080/h2-console>



The screenshot shows the H2-Console Login interface. At the top, there is a language dropdown menu set to 'English', and links for 'Preferences' and 'Help'. The main section is titled 'Login'. It contains a 'Saved Settings' dropdown menu with 'Generic H2' selected. Below this is a 'Setting Name' field with 'Generic H2' entered, and 'Save' and 'Remove' buttons. The 'Driver Class' field is set to 'org.h2.Driver'. The 'JDBC URL' field is set to 'jdbc:h2:test'. The 'User Name' field is set to 'sa'. The 'Password' field is empty. At the bottom, there are 'Connect' and 'Test Connection' buttons. The 'Connect' button is highlighted with a red rectangle.

English Preferences Help

Login

Saved Settings: Generic H2

Setting Name: Generic H2 Save Remove

Driver Class: org.h2.Driver

JDBC URL: jdbc:h2:test

User Name: sa

Password:

Connect Test Connection

Scripts:

Criar um arquivo **data.sql** na pasta resources.

Copiar os inserts abaixo para fazer o seeding do banco H2.

```
INSERT INTO tb_client (name, address) VALUES ('João Antonio', 'Rua XV, 1 21 2 – Sorocaba/SP');
```

```
INSERT INTO tb_client (name, address) VALUES ('Maria Silva', 'Rua Tereza, 23 – Sorocaba/SP');
```