

**JAVA SPRINGBOOT 2023**  
**By: nano**

# spring initializr

Project Language

Gradle - Groovy  Java  Kotlin  
 Gradle - Kotlin  Maven  Groovy

Spring Boot

3.0.2 (SNAPSHOT)  3.0.1  2.7.8 (SNAPSHOT)  
 2.7.7

Project Metadata

Group com.example

Artifact demo

Name demo

Dependencies

**ADD DEPENDENCIES... CTRL + B**

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

**Thymeleaf TEMPLATE ENGINES**  
A modern server-side Java template engine for both web and standalone environments. Allows HTML to be correctly displayed in browsers and as static prototypes.

**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.

GENERATE CTRL + ↵ EXPLORE CTRL + SPACE SHARE...

YouTube (46) Exemplo de CRUD - Spring B Spring Initializr

start.spring.io

c++ C++ br-C.org C++ VISUAL STUDIO Domestika ASSEMBLY ss64 kernel org Linux kernel gcc archlinux die.net devdocsc Outros favoritos

Gradle - Groovy Java Gradle - Kotlin Maven Kotlin Groovy

Spring Boot

3.0.2 (SNAPSHOT) 3.0.1 2.7.8 (SNAPSHOT)

2.7.7

Project Metadata

Group com.example

Artifact demo

Name demo

Description CRUD example

Package name com.example.demo

Packaging Jar War

Java 19 17 11 8

GENERATE CTRL + ↩ EXPLORE CTRL + SPACE SHARE...

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

Thymeleaf TEMPLATE ENGINES A modern server-side Java template engine for both web and standalone environments. Allows HTML to be correctly displayed in browsers and as static prototypes.

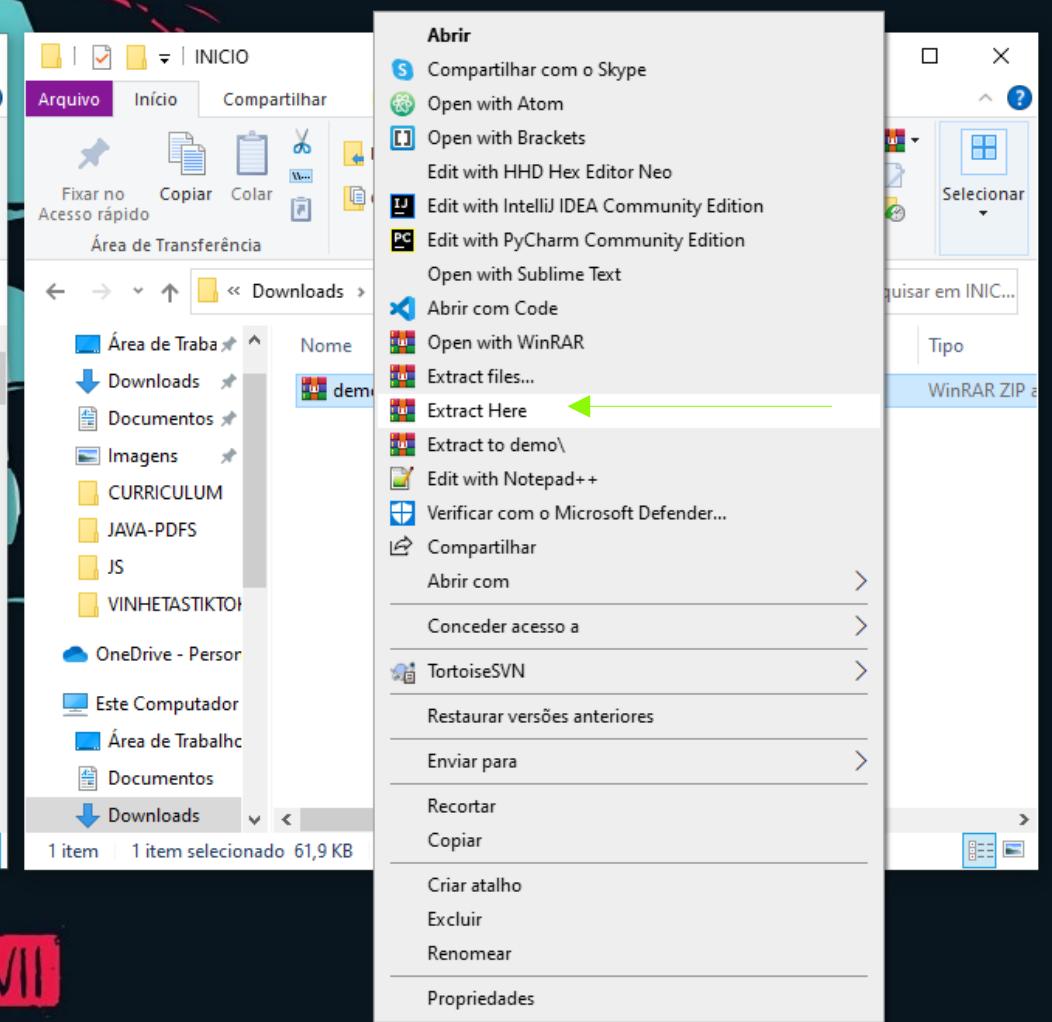
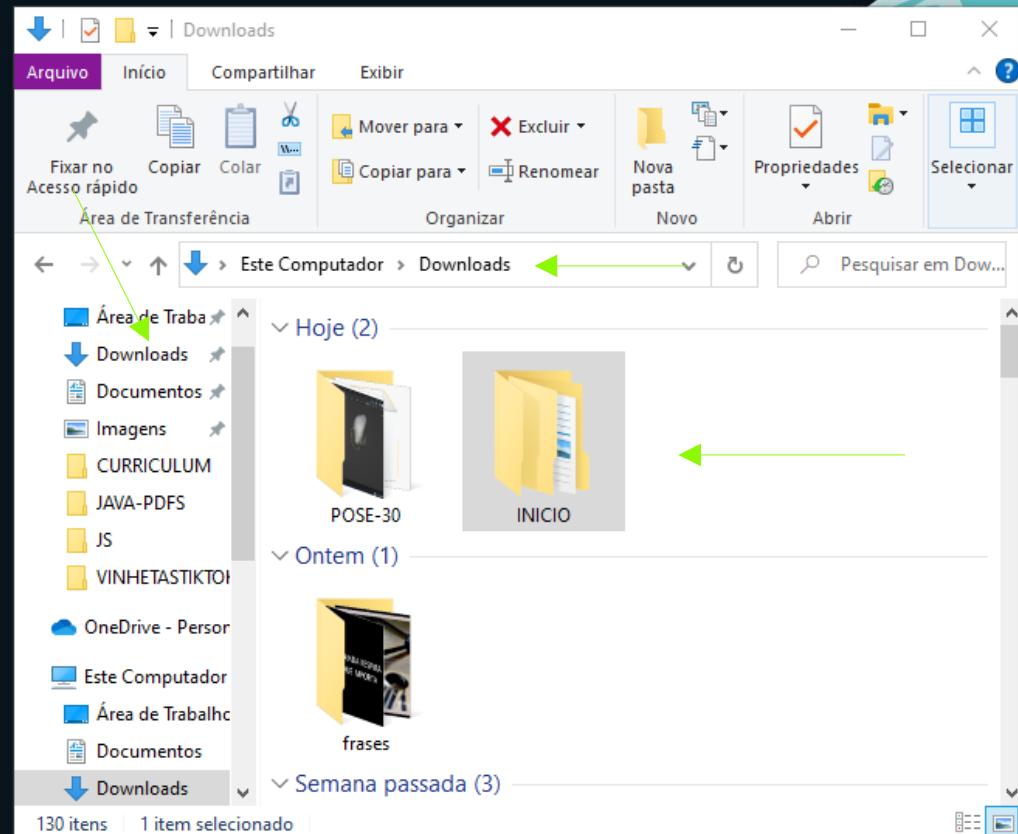
H2 Database SQL Provides a fast in-memory database that supports JDBC API and R2DBC access, with a small (2mb) footprint. Supports embedded and server modes as well as a browser based console application.

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

Spring Boot Dev Tools DEVELOPER TOOLS Provides fast application restarts, LiveReload, and configurations for enhanced development experience.

29°C Pred ens... 17:50

**Copie as configurações iniciais e click em generated  
Ano 2023**  
**Adicione as dependencias e tudo mais**  
**Por fim baixe e descompacte em algum diretorio**  
**Depois disso**  
**Em qualquer ide importe um arquivo do tipo maven**  
**E navegue até a pasta descompactada**



The image shows two side-by-side Windows File Explorer windows. The left window is titled 'INICIO' and the right window is titled 'demo'. Both windows have identical toolbars at the top with buttons for Arquivo, Início, Compartilhar, and Exibir, along with standard file operations like Mover para, Excluir, Nova pasta, Propriedades, and Selecionar.

**INICIO Folder Content:**

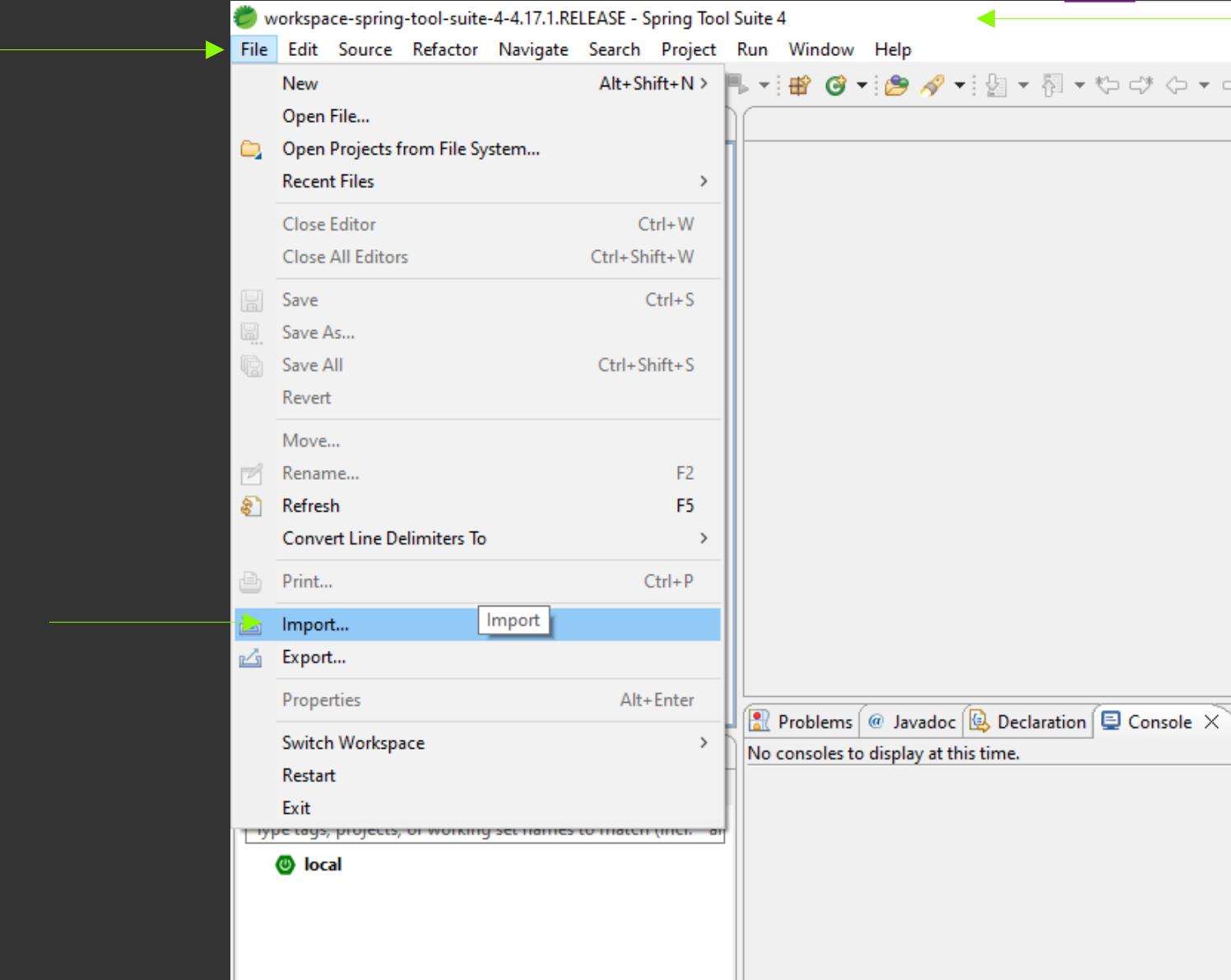
Nome	Data de modificação	Tipo
Área de Trabalho	18/01/2023 20:54	Pasta de arquivo
Downloads	18/01/2023 20:54	Pasta de arquivo
Documentos	18/01/2023 20:54	Pasta de arquivo
Imagens	18/01/2023 20:54	Pasta de arquivo
CURRICULUM	18/01/2023 20:54	Pasta de arquivo
JAVA-PDFS	18/01/2023 20:54	Pasta de arquivo
JS	18/01/2023 20:54	Pasta de arquivo
VINHETASTIKTOR	18/01/2023 20:54	Pasta de arquivo
OneDrive - Person		
Este Computador		
Área de Trabalho		
Documentos		
Downloads		

**demo Folder Content:**

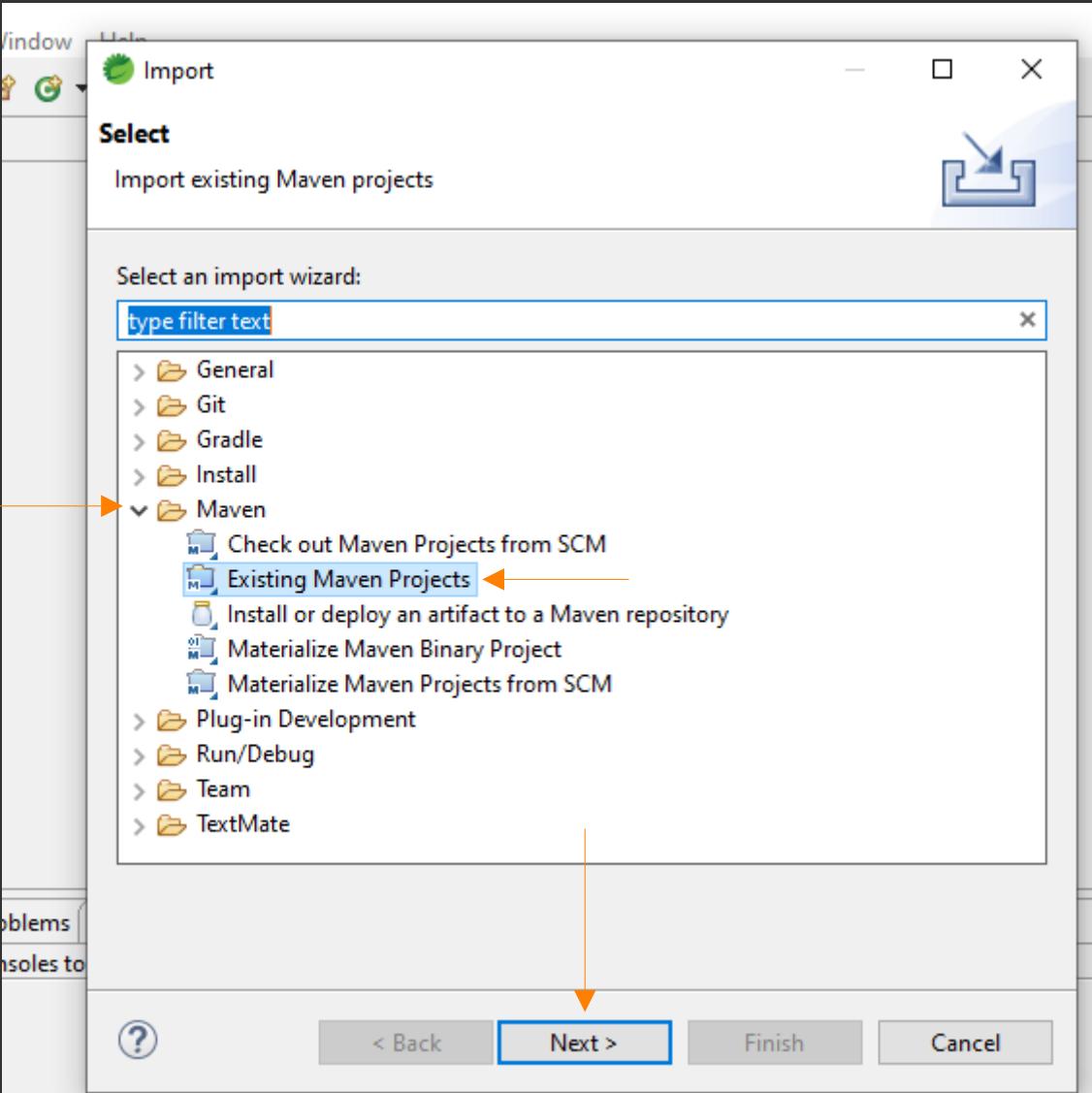
Nome	Data de modificação	Tipo
Área de Trabalho	18/01/2023 20:54	Pasta de arquivo
Downloads	18/01/2023 20:54	Pasta de arquivo
Documentos	18/01/2023 20:54	Pasta de arquivo
Imagens	18/01/2023 20:54	Pasta de arquivo
CURRICULUM	18/01/2023 20:54	Pasta de arquivo
JAVA-PDFS	18/01/2023 20:54	Pasta de arquivo
JS	18/01/2023 20:54	Pasta de arquivo
VINHETASTIKTOR	18/01/2023 20:54	Pasta de arquivo
.mvn	18/01/2023 20:54	Pasta de arquivo
src	18/01/2023 20:54	Pasta de arquivo
.gitignore	18/01/2023 20:54	Documento
HELP.md	18/01/2023 20:54	Arquivo MD
mvnw	18/01/2023 20:54	Arquivo
mvnw.cmd	18/01/2023 20:54	Script de Con
pom.xml	18/01/2023 20:54	Microsoft Ed

Two green arrows indicate file transfers: one pointing from the 'demo' folder to the 'INICIO' folder, and another pointing from the 'INICIO' folder to the 'demo' folder. The status bar at the bottom of each window shows '2 itens' and '7 itens' respectively.

VII



Estou usando  
O springtools  
swuit  
Mais em  
qualquer ide é  
igual

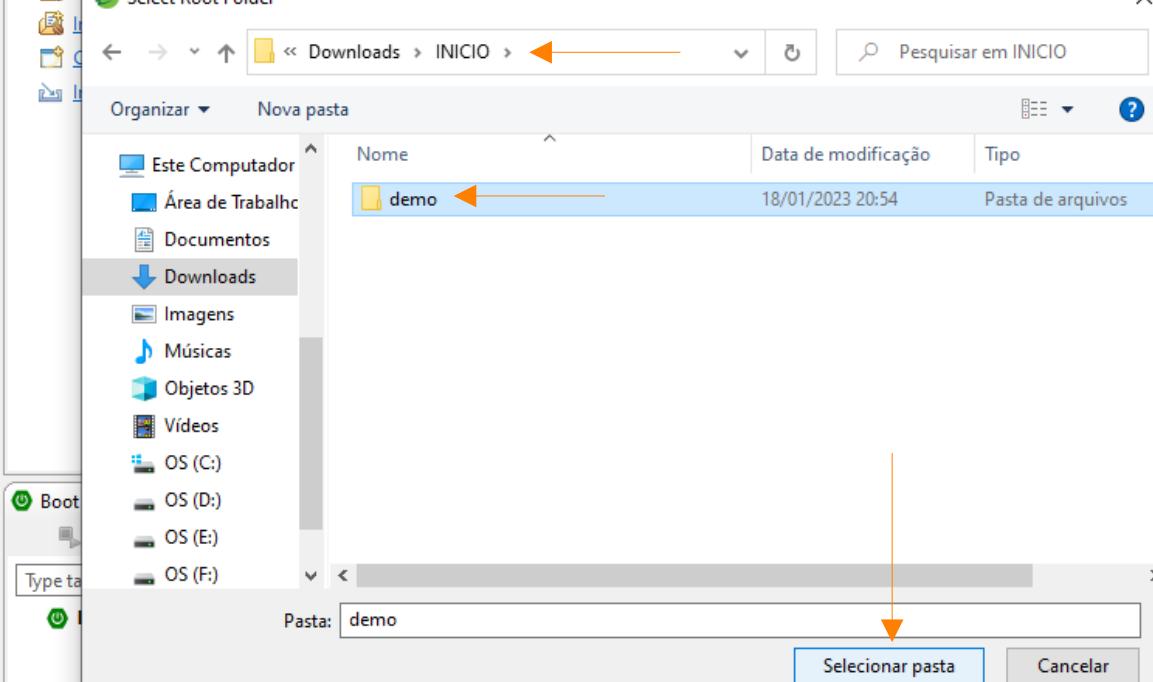




There are no projects in your workspace.  
To add a project:

[Create a Java project](#)

[Select Root Folder](#)



### Import Maven Projects

#### Maven Projects

Select Maven projects

Root Directory:



Browse...

Select All

Deselect All

Select Tree

Deselect Tree

Refresh

project(s) to working set

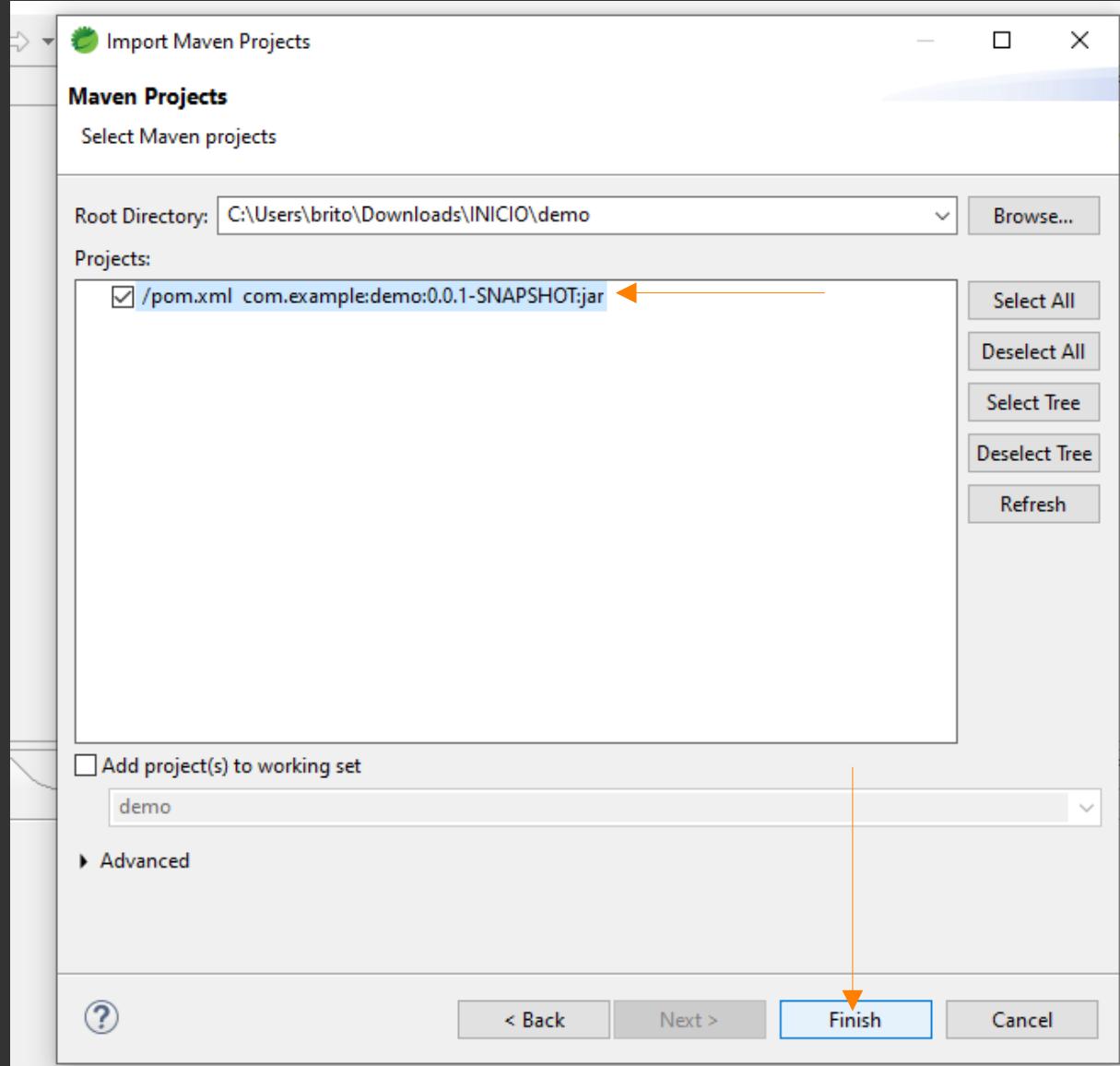
Advanced

< Back

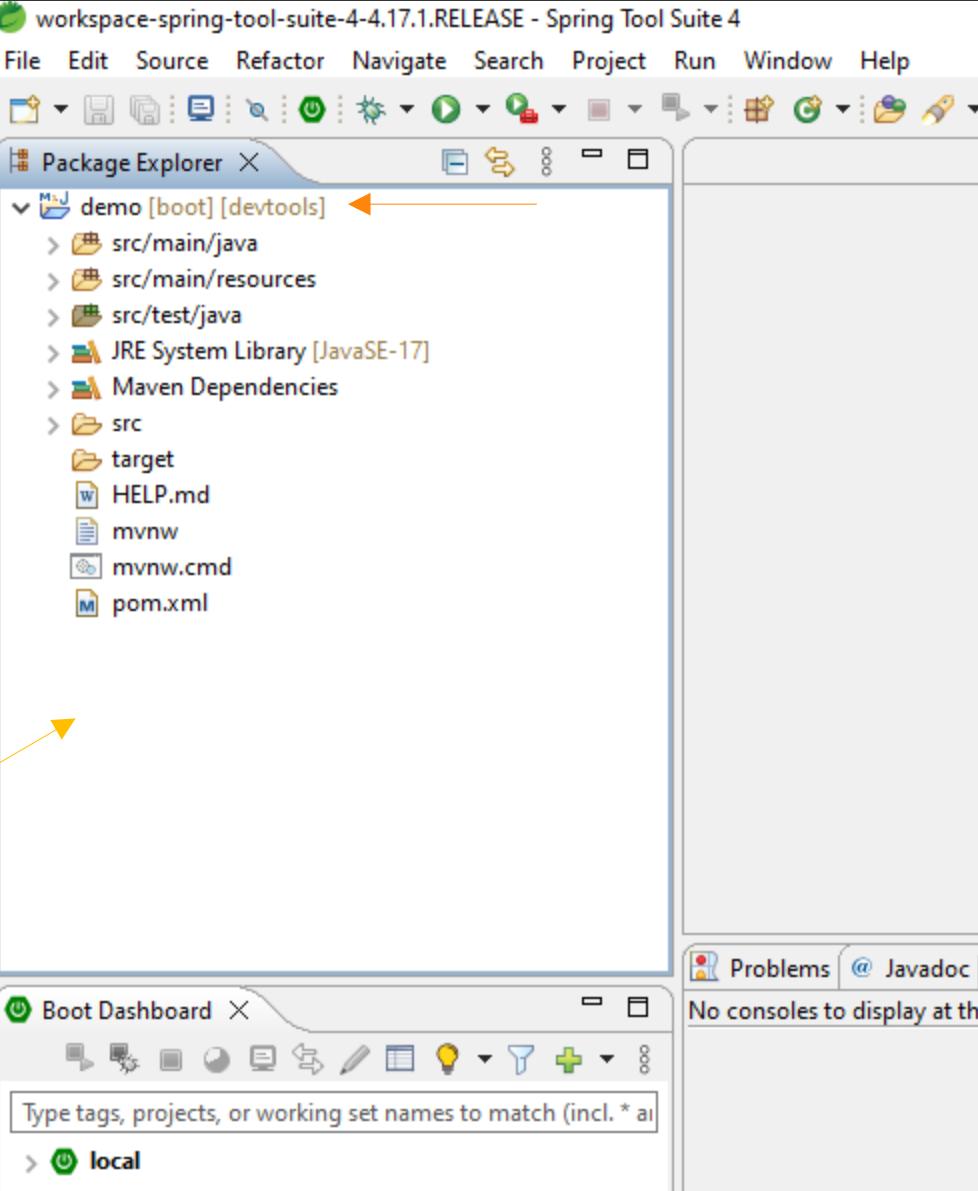
Next >

Finish

Cancel



Aguarde o  
programa baixar  
tudo o que  
precisa



workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/resources/application.properties - Spring Tool Suite 4

File Edit Navigate Search Project Run Window Help

Package Explorer X application.properties X

demo [boot] [devtools]

src/main/java

src/main/resources

static

templates

application.properties

src/test/java

JRE System Library [JavaSE-17]

Maven Dependencies

src

target

HELP.md

mvnw

mvnw.cmd

pom.xml

application.properties

```
1 spring.jpa.hibernate.ddl-auto=update
2 spring.jpa.show-sql=true
3 spring.jpa.properties.hibernate.format_sql=true
4
5 spring.h2.console.enabled=true
6
```

Digite o seguinte code nesse arquivo se mais tarde der erro tente remover

Problems Javadoc Declaration Console X

No consoles to display at this time.



## Package Explorer X

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
    - src/main/resources
    - src/test/java
  - JRE System Library [Ja]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
  - pom.xml

- New >
- Go Into
- Open in New Window
- Open Type Hierarchy F4
- Show In Alt+Shift+W >
- Show in Local Terminal >
- Copy Ctrl+C
- Copy Qualified Name
- Paste Ctrl+V
- Delete Delete
- Build Path >
- Source Alt+Shift+S >
- Refactor Alt+Shift+T >
- Import...
- Export...
- References >
- Declarations > F5
- Refresh
- Assign Working Sets...

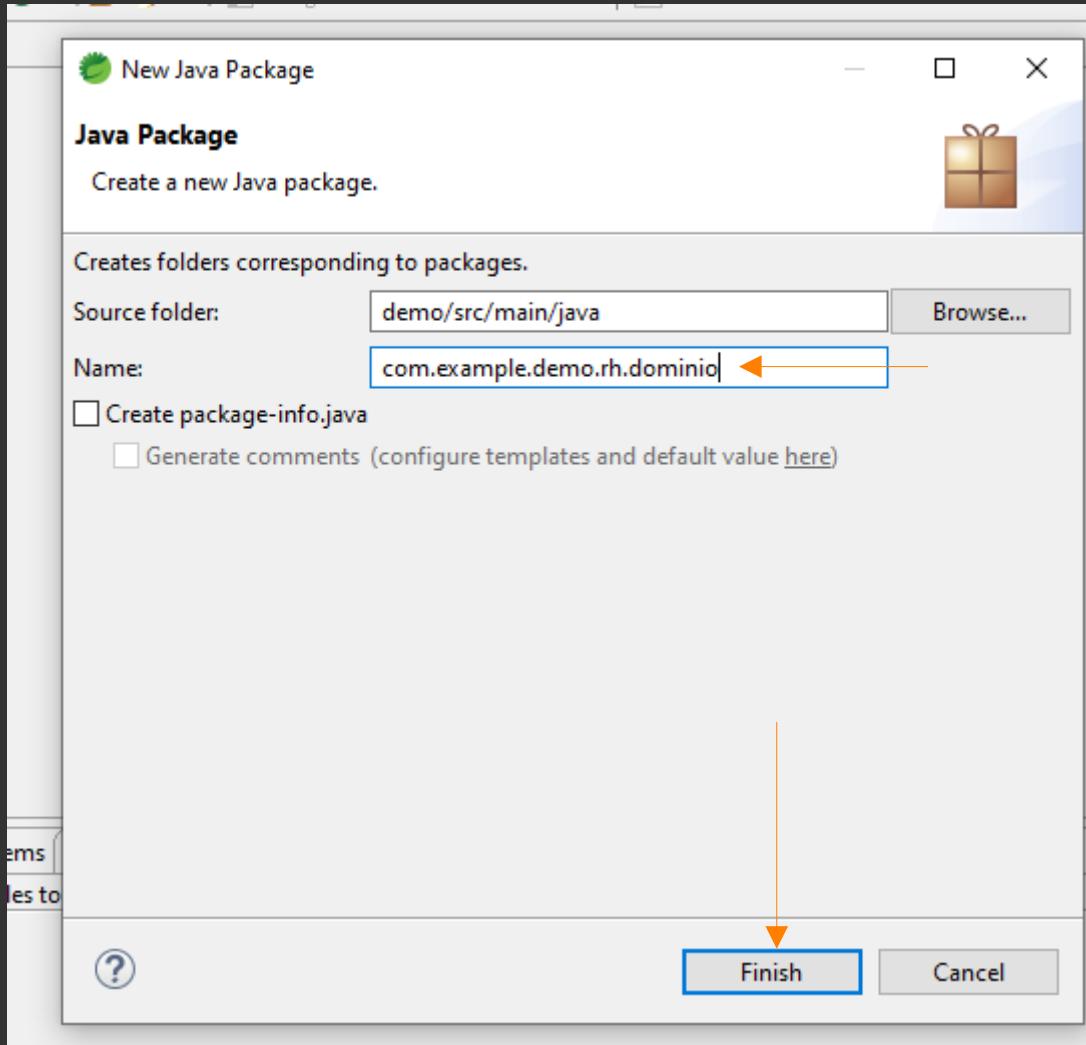
- Java Project
- Spring Starter Project
- Import Spring Getting Started Content
- Project...
- Package
- Class Create a Java package
- Interface
- Enum
- Record
- Annotation
- Source Folder
- Java Working Set
- Folder
- File
- Untitled Text File
- JUnit Test Case
- Other... Ctrl+N

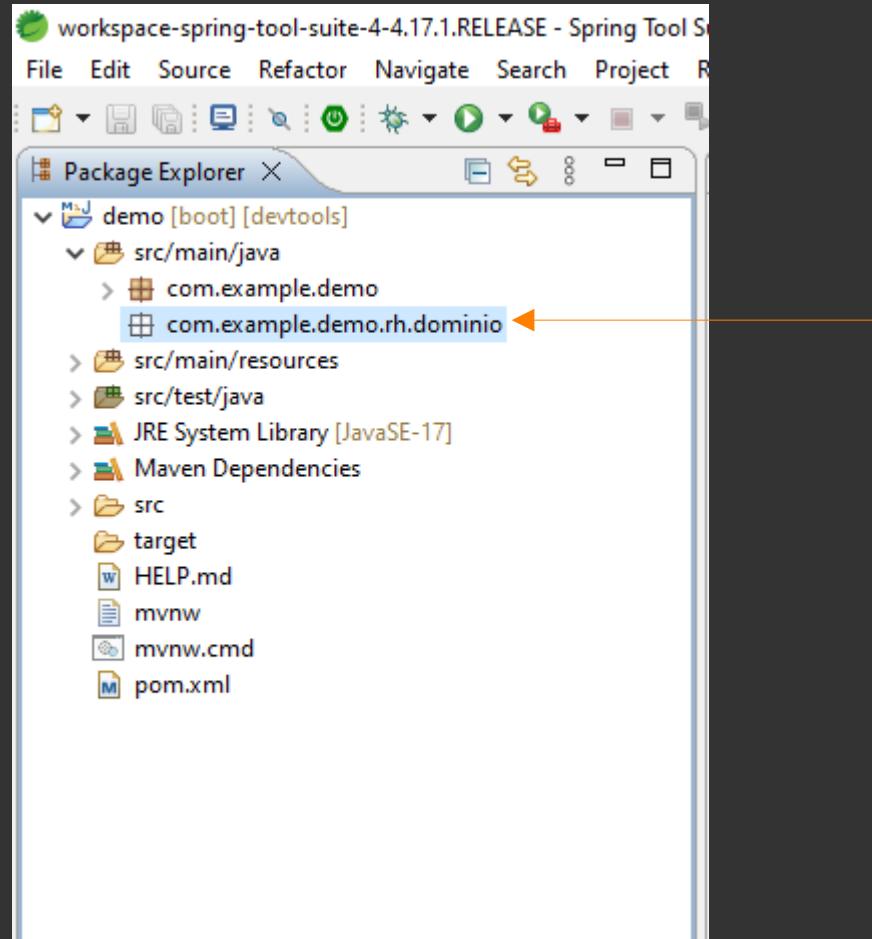
## Boot Dashboard X



Declaration Console X

this time.





The screenshot shows the Spring Tool Suite 4 interface with the following details:

- Project Structure:** The "Package Explorer" view shows a project named "demo [boot] [devtools]" with the following structure:
  - src/main/java
    - com.example.demo
    - com.example.demo.rh.domain (selected)
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml
- Context Menu:** A context menu is open over the "com.example.demo.rh.domain" package. The "New" submenu is expanded, showing options like "Java Project", "Spring Starter Project", and "Class". The "Class" option is selected, with a tooltip "Create a Java class". Other options in the "New" submenu include "Interface", "Enum", "Record", "Annotation", "Source Folder", "Java Working Set", "Folder", "File", "Untitled Text File", "JUnit Test Case", and "Other...".
- Bottom Navigation:** The "Boot Dashboard" view is visible at the bottom, showing a toolbar with icons for file operations and a search bar with placeholder text "Type tags, projects, or working set names".



New Java Class



## Java Class

Create a new Java class.

Source folder:

demo/src/main/java

Browse...

Package:

com.example.demo.rh.dominio

Browse...

 Enclosing type: 

Browse...

Name:

Pessoa



Modifiers:

 public package private protected abstract final static none sealed non-sealed final

Superclass:

java.lang.Object

Browse...

Interfaces:

Add...

Remove

Which method stubs would you like to create?

 public static void main(String[] args) Constructors from superclass Inherited abstract methodsDo you want to add comments? (Configure templates and default value [here](#)) Generate comments

Finish

Cancel

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/dominio/Pessoa.java - Spring Tool Suite

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

demo [boot] [devtools]

src/main/java

- > com.example.demo
- > com.example.demo.rh.dominio
- > Pessoa.java

src/main/resources

src/test/java

JRE System Library [JavaSE-17]

Maven Dependencies

src

target

HELP.md

mvnw

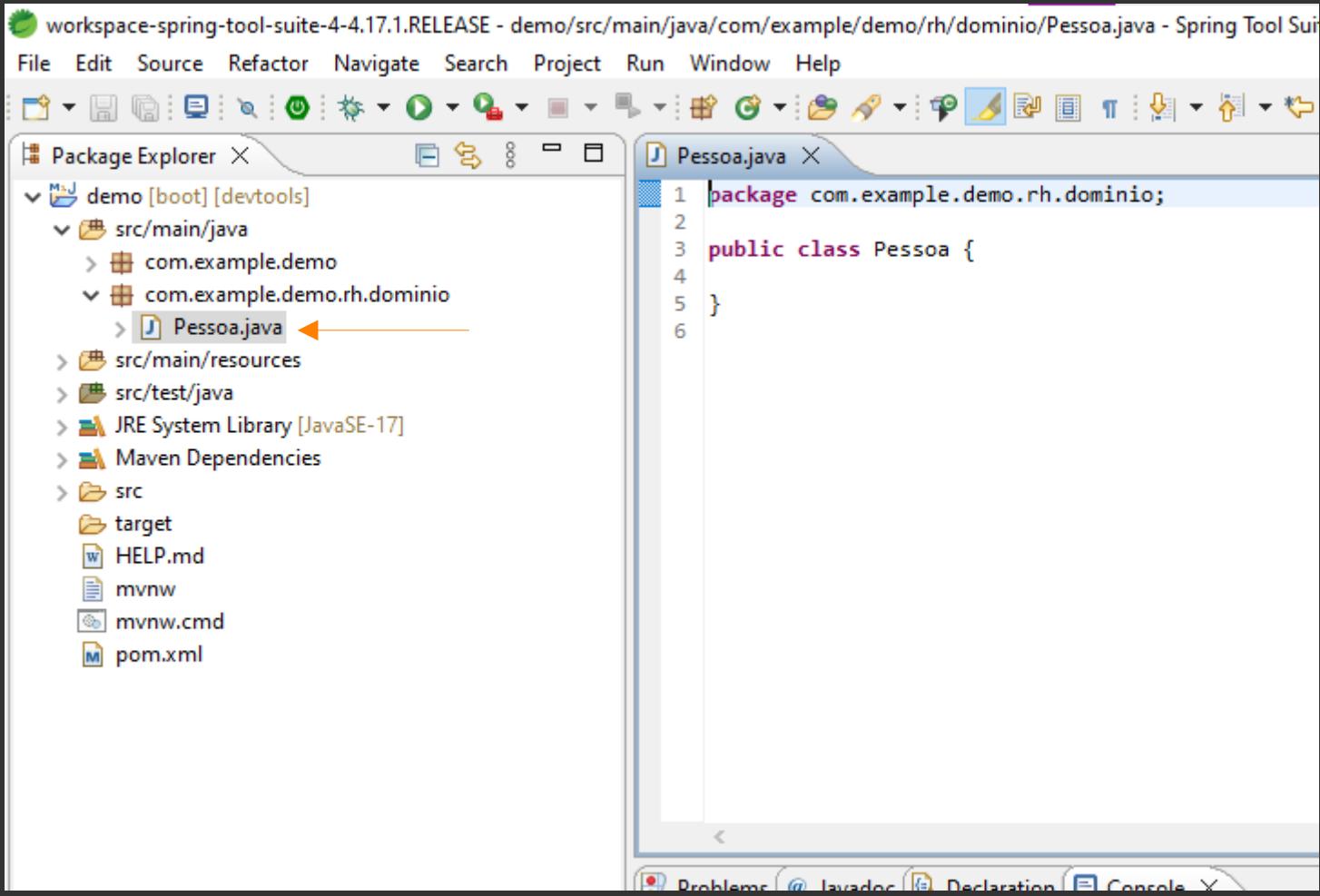
mvnw.cmd

pom.xml

Pessoa.java X

```
1 package com.example.demo.rh.dominio;
2
3 public class Pessoa {
4
5 }
6
```

Problems Javadoc Declaration Console



The screenshot shows the Spring Tool Suite 4 interface with the following details:

- Project Explorer (Left):** Shows the project structure under "demo [boot] [devtools]". The "src/main/java" folder contains "com.example.demo" and "com.example.demo.rh.dominio", with "Pessoas.java" selected.
- Code Editor (Center):** Displays the content of "Pessoas.java". The code defines a class "Pessoas" with fields for id, nome, dataNascimento, cpf, email, and telefone, and annotations for Entity, Id, GeneratedValue, and DateTimeFormat.
- Placeholder Text (Bottom Center):** The text "Digite o código acima" is displayed in orange, likely a watermark or a placeholder for a challenge code.
- Bottom Navigation Bar:** Includes tabs for Problems, Javadoc, Declaration, and Console, with the Console tab currently active.
- Bottom Status Bar:** Shows the message "No consoles to display at this time."

Package Explorer X

\*Pessoa.java X

```
1 package com.example.demo.rh.dominio;
2
3 import java.time.LocalDate;
4 import org.springframework.format.annotation.DateTimeFormat;
5 import jakarta.persistence.Entity;
6 import jakarta.persistence.GeneratedValue;
7 import jakarta.persistence.GenerationType;
8 import jakarta.persistence.Id;
9
10 @Entity
11 public class Pessoa {
12
13     @Id
14     @GeneratedValue(strategy = GenerationType.AUTO)
15     private Long id;
16     private String nome;
17
18     @DateTimeFormat(style = "yyyy-MM-dd")
19     private LocalDate dataNascimento;
20
21     private String cpf;
22     private String email;
23     private String telefone;
24
25 }
26
27
28 }
```

Outline

Deixe o cursor ai e va la encima pra gerar os  
metodos getters e setters

Problems @ Javadoc Declaration Console X

No consoles to display at this time.

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/domínio/Pessoa.java

File Edit Source Refactor Navigate Search Project Run Window Help

Toggle Comment Ctrl+7

Add Block Comment Ctrl+Shift+/

Remove Block Comment Ctrl+Shift+\

Generate Element Comment Alt+Shift+J

Add Text Block Ctrl+Shift+'

Shift Right

Shift Left

Correct Indentation Ctrl+I

Format Ctrl+Shift+F

Format Element

Add Import Ctrl+Shift+M

Organize Imports Ctrl+Shift+O

Sort Members...

Clean Up...

Override/Implement Methods...

Generate Getters and Setters... ←

Generate Delegate Methods...

Generate hashCode() and equals()...

Generate toString()...

Generate Constructor using Fields...

Generate Constructors from Superclass...

Surround With Alt+Shift+Z >

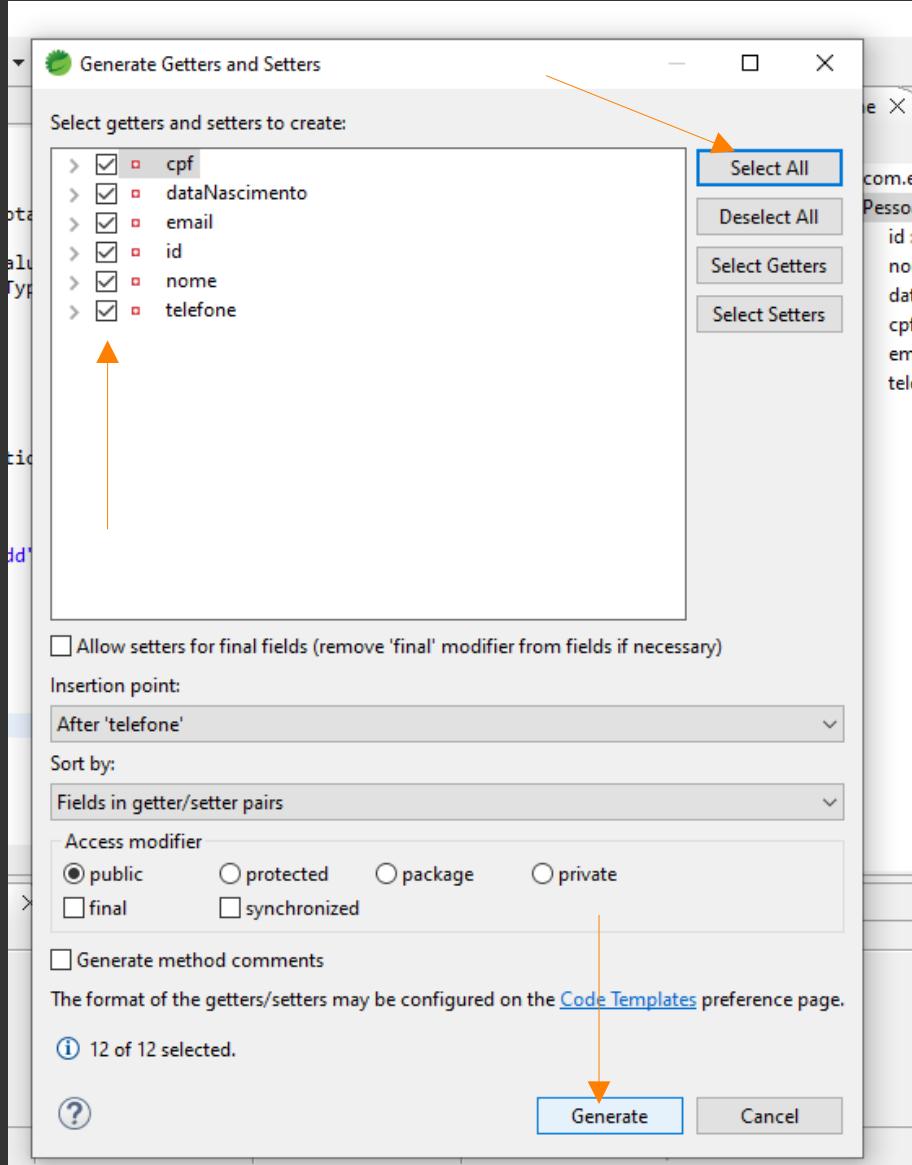
Externalize Strings...

Find Broken Externalized Strings

com.example.demo.rh.domínio  
java.time.LocalDate;  
org.springframework.format.  
jakarta.persistence.Entity;  
jakarta.persistence.Generat  
jakarta.persistence.Generat  
jakarta.persistence.Id;  
  
class Pessoa {  
  
 generatedValue(strategy = Gen  
 @Id  
 @GeneratedValue(strategy = Gen  
 private Long id;  
 private String nome;  
  
 @DateTimeFormat(style = "yyyy-  
 private LocalDate dataNascimen  
  
 private String cpf;  
 private String email;  
 private String telefone;

Javadoc Declaration Cor  
splay at this time.

Selezione tudo



Project Run Window Help



Pessoa.java X

```
29         this.id = id;
30     }
31    public String getNome() {
32        return nome;
33    }
34    public void setNome(String nome) {
35        this.nome = nome;
36    }
37    public LocalDate getDataNascimento() {
38        return dataNascimento;
39    }
40    public void setDataNascimento(LocalDate dataNascimento) {
41        this.dataNascimento = dataNascimento;
42    }
43    public String getCpf() {
44        return cpf;
45    }
46    public void setCpf(String cpf) {
47        this.cpf = cpf;
48    }
49    public String getEmail() {
50        return email;
51    }
52    public void setEmail(String email) {
53        this.email = email;
54    }
55    public String getTelefone() {
56        return telefone;
57    }
... 
```



Só uma amostra como os métodos ficam depois de serem feitos



Package Explorer X

demo [boot] [devtools]

- > src/main/java
- > src/main/resources
- > src/test/java
- > JRE System Library [JavaSE-17]
- > Maven Dependencies
- > src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
- pom.xml

Boot Dashboard X

- Run
- Stop
- Build
- Test
- Run Configuration
- Find
- Console
- +
- Help

Type tags, projects, or working set names to match (incl. \* ai)

> local

1 elements hidden by filter

\*Pessoa.java X

```
37     public LocalDate getDataNascimento() {
38         return dataNascimento;
39     }
40     public void setDataNascimento(LocalDate dataNascimento) {
41         this.dataNascimento = dataNascimento;
42     }
43     public String getCpf() {
44         return cpf;
45     }
46     public void setCpf(String cpf) {
47         this.cpf = cpf;
48     }
49     public String getEmail() {
50         return email;
51     }
52     public void setEmail(String email) {
53         this.email = email;
54     }
55     public String getTelefone() {
56         return telefone;
57     }
58     public void setTelefone(String telefone) {
59         this.telefone = telefone;
60     }
61
62 }
```

Problems @ Javadoc Declaration Console X

No consoles to display at this time.

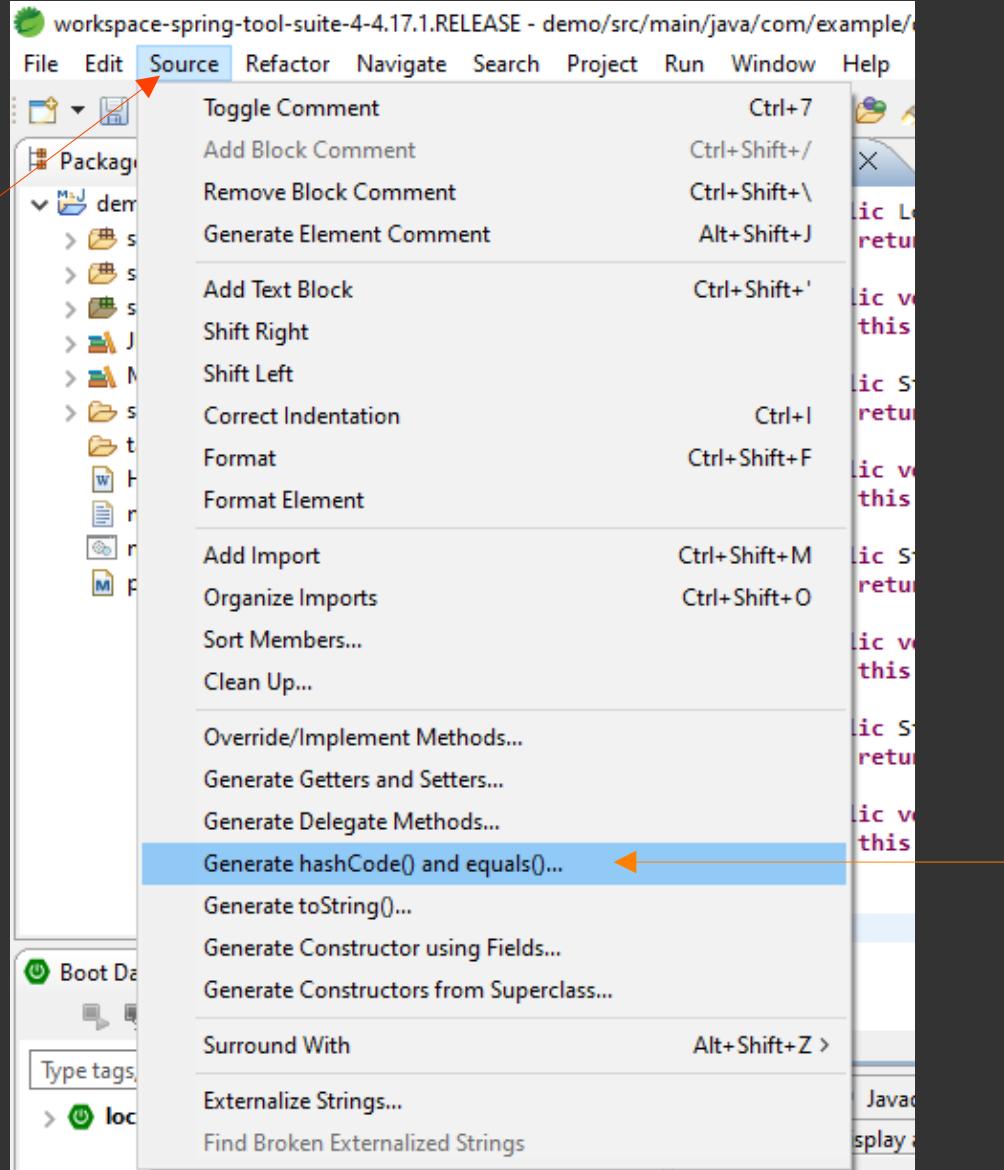
Outline X

com.example.de...

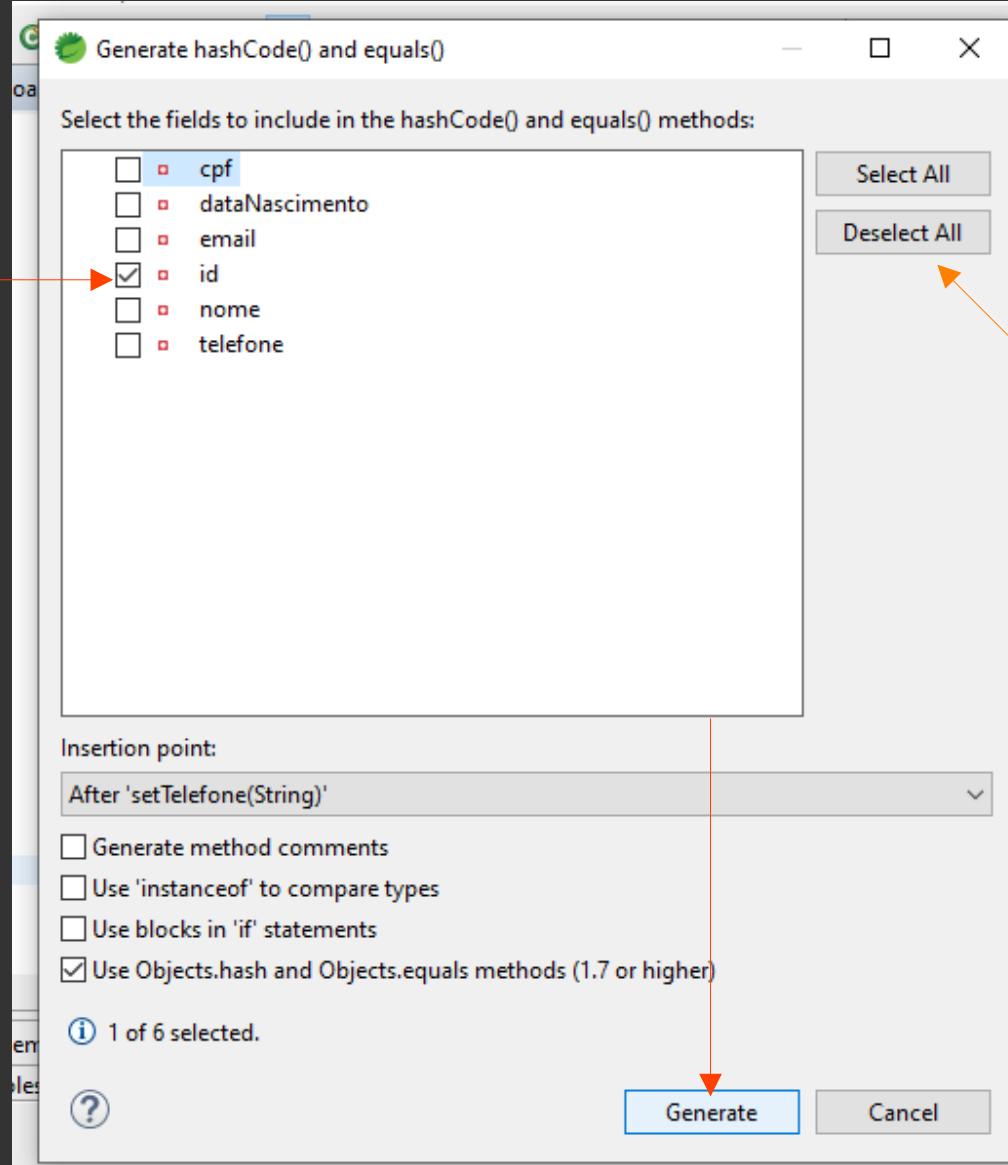
Pessoa

- id : Long
- nome : String
- dataNascimen...
- cpf : String
- email : String
- telefone : Stri...
- getId() : Long
- setId(Long) : v...
- getNome() : S...
- setNome(Stri...)
- getDataNascim...
- setDataNascim...
- getCpf() : Stri...
- setCpf(String)...
- getEmail() : St...
- setEmail(Stri...)
- getTelefone() : ...
- setTelefone(Sti...

Deixe o cursor ai



Marque só o id



Workspace: Spring Tool Suite - [WIP] PRIMER-EASE - demo/src/main/java/com/example/demo/m/domain/Pessoa.java - Spring Tool Suite

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

demo [boot] [devtools]

- > src/main/java
- > src/main/resources
- > src/test/java
- > JRE System Library [JavaSE-17]
- > Maven Dependencies
- > src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

Pessoa.java X

```
public void setEmail(String email) {  
    this.email = email;  
}  
public String getTelefone() {  
    return telefone;  
}  
public void setTelefone(String telefone) {  
    this.telefone = telefone;  
}  
@Override  
public int hashCode() {  
    return Objects.hash(id);  
}  
@Override  
public boolean equals(Object obj) {  
    if (this == obj)  
        return true;  
    if (obj == null)  
        return false;  
    if (getClass() != obj.getClass())  
        return false;  
    Pessoa other = (Pessoa) obj;  
    return Objects.equals(id, other.id);  
}  
}
```

Só pra ilustrar

Boot Dashboard X

Type tags, projects, or working set names to match (incl. \* all)



## Package Explorer X

```
demo [boot] [devtools]
src/main/java
src/main/resources
src/test/java
JRE System Library [JavaSE-17]
Maven Dependencies
src
target
HELP.md
mvnw
mvnw.cmd
pom.xml
```

Deixe o cursor ai

## Pessoa.java X

```
54    public void setEmail(String email) {
55        this.email = email;
56    }
57    public String getTelefone() {
58        return telefone;
59    }
60    public void setTelefone(String telefone) {
61        this.telefone = telefone;
62    }
63    @Override
64    public int hashCode() {
65        return Objects.hash(id);
66    }
67    @Override
68    public boolean equals(Object obj) {
69        if (this == obj)
70            return true;
71        if (obj == null)
72            return false;
73        if (getClass() != obj.getClass())
74            return false;
75        Pessoa other = (Pessoa) obj;
76        return Objects.equals(id, other.id);
77    }
78
79
80
81}
```

## Boot Dashboard X

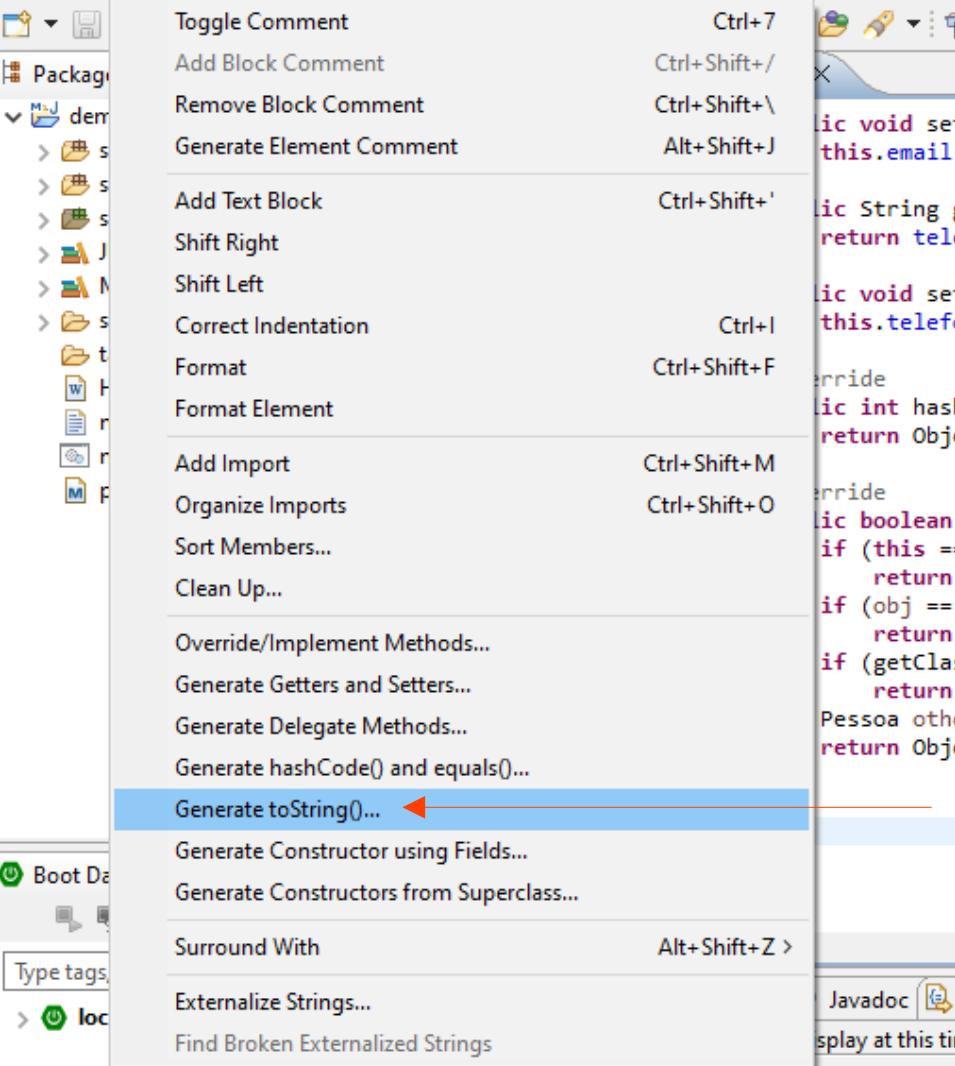


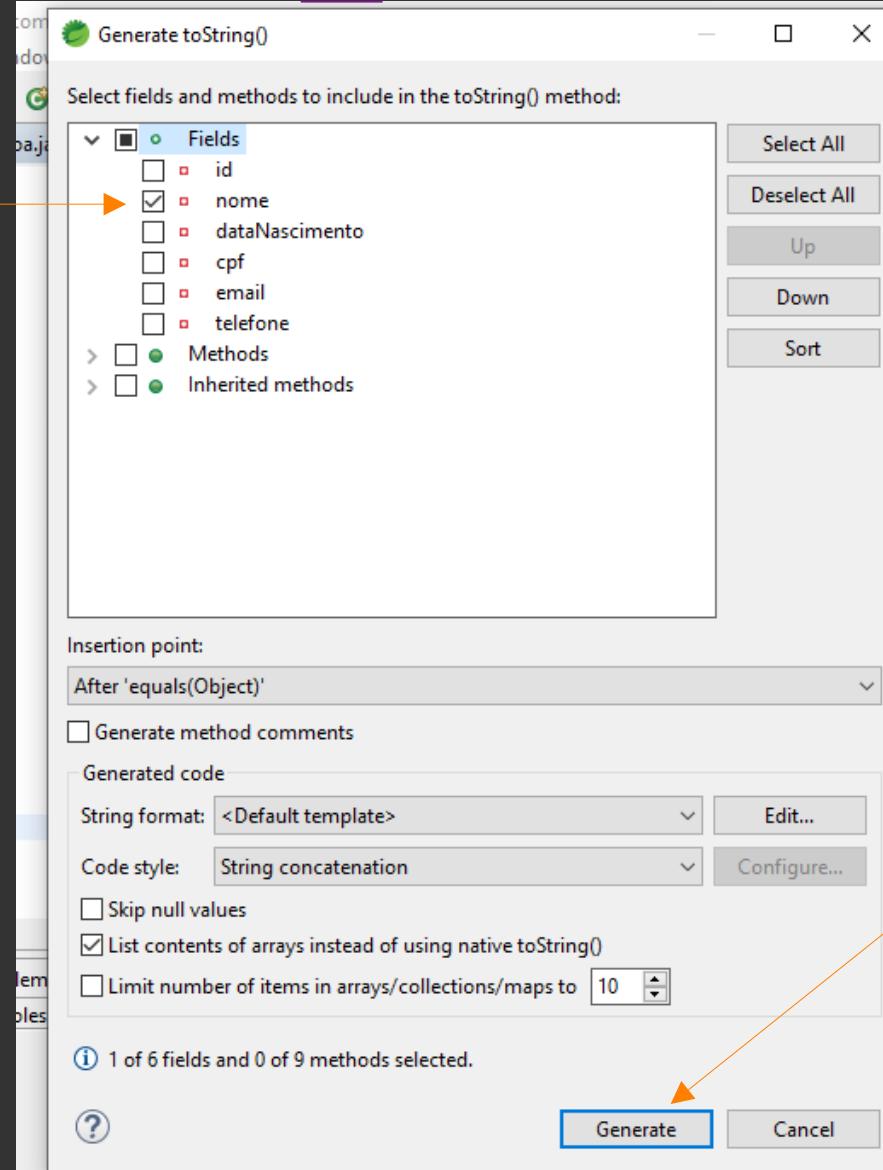
Type tags, projects, or working set names to match (incl. \* ai)

> local

Problems @ Javadoc Declaration Console X

No consoles to display at this time.





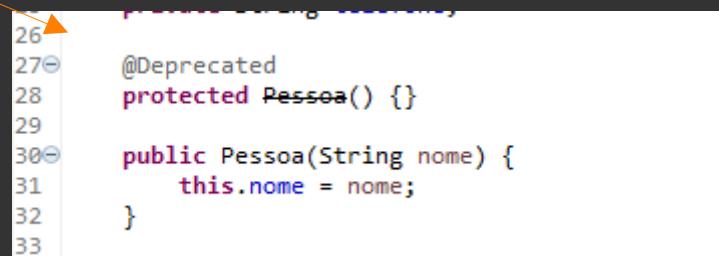
resultado

```
public String getTelefone() {
    return telefone;
}
public void setTelefone(String telefone) {
    this.telefone = telefone;
}
@Override
public int hashCode() {
    return Objects.hash(id);
}
@Override
public boolean equals(Object obj) {
    if (this == obj)
        return true;
    if (obj == null)
        return false;
    if (getClass() != obj.getClass())
        return false;
    Pessoa other = (Pessoa) obj;
    return Objects.equals(id, other.id);
}
@Override
public String toString() {
    return "Pessoa [nome=" + nome + "]";
}
```

```
15@ Id  
16 @GeneratedValue(strategy = GenerationType.AUTO)  
17 private Long id;  
18 private String nome;  
19  
20 @DateTimeFormat(style = "yyyy-MM-dd")  
21 private LocalDate dataNascimento;  
22  
23 private String cpf;  
24 private String email;  
25 private String telefone;  
26  
27 @Deprecated  
28 protected Pessoa() {}  
29  
30 public Pessoa(String nome) {  
31     this.nome = nome;  
32 }  
33  
34 public Long getId() {  
35     return id;  
36 }  
37 public void setId(Long id) {  
38     this.id = id;  
39 }  
40 public String getNome() {  
41     return nome;  
42 }  
43 public void setNome(String nome) {
```

Adicione esse code nesse lugar

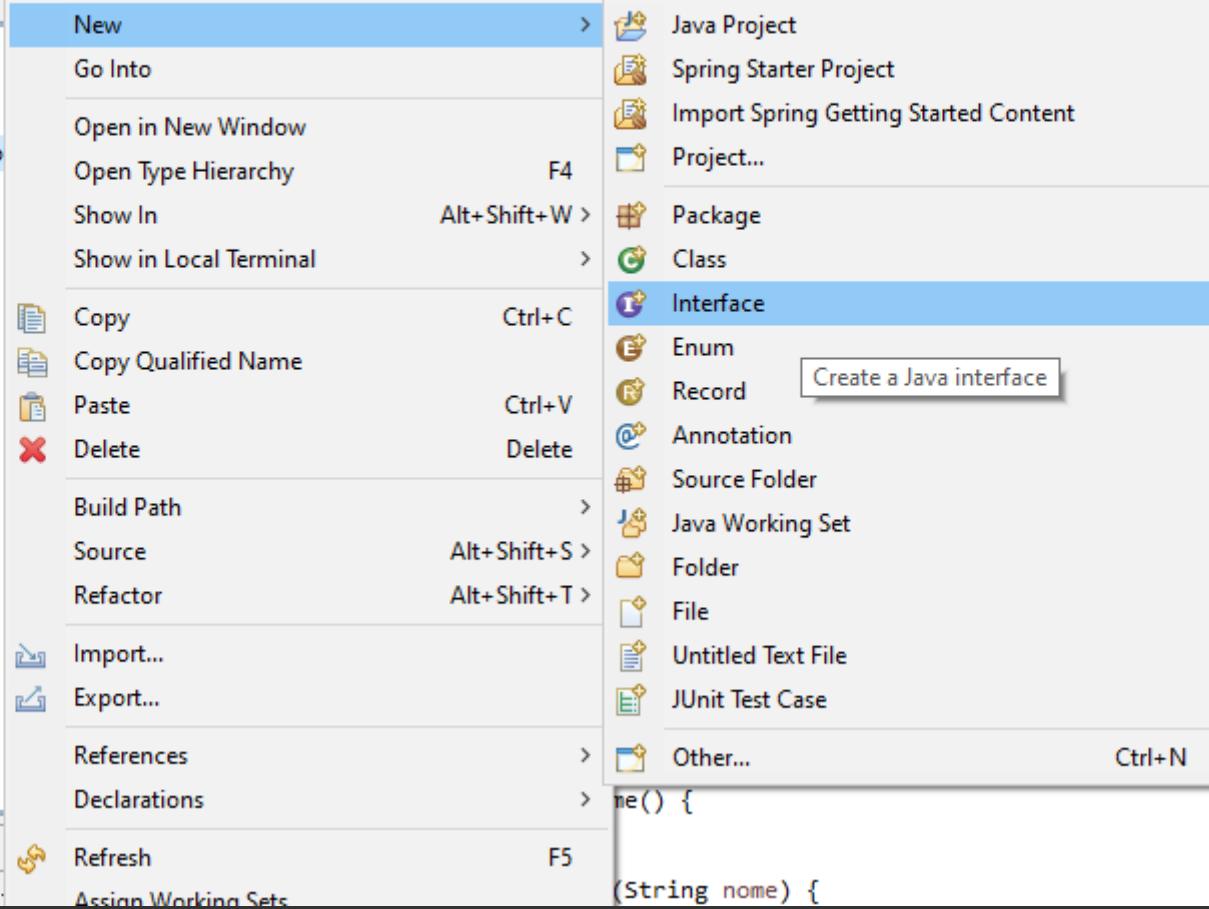
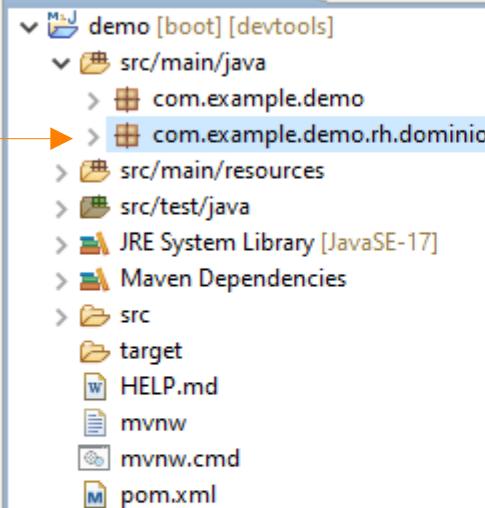
Pra não ter duvidas do que escrever



```
26
27@Deprecated
28protected Pessoa() {}
29
30public Pessoa(String nome) {
31    this.nome = nome;
32}
33
```

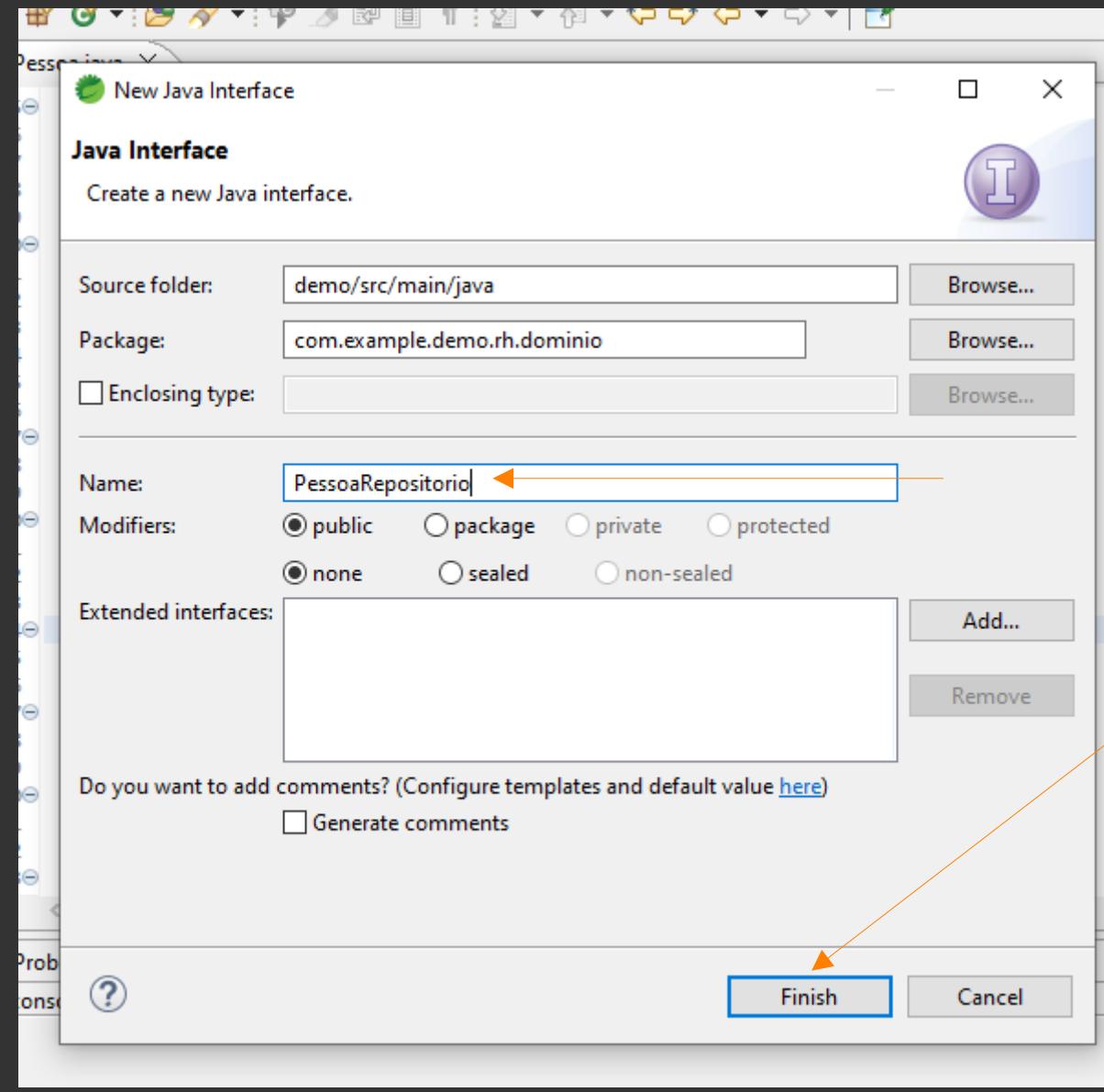


## Package Explorer X



## Boot Dashboard X





The screenshot shows the Spring Tool Suite (STS) interface. The title bar indicates the workspace is named "workspace-spring-tool-suite-4-4.17.1.RELEASE" and the current file is "demo/src/main/java/com/example/demo/rh/dominio/PessoarRepositorio.java".

The left side features the "Package Explorer" view, which displays the project structure:

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
    - com.example.demo.rh.dominio
      - Pessoar.java
      - PessoarRepositorio.java
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

The "PessoarRepositorio.java" file is selected in the Package Explorer, indicated by a yellow selection bar at the bottom.

The right side shows the code editor with two tabs: "Pessoar.java" and "PessoarRepositorio.java". The "Pessoar.java" tab is active, displaying the following code:

```
1 package com.example.demo.rh.dominio;
2
3 public interface PessoarRepositorio {
4
5 }
```

The screenshot shows the Spring Tool Suite 4 interface. The title bar indicates the workspace is named "workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/dominio/PessoaRepository.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations like Open, Save, and Build.

The Package Explorer view on the left shows the project structure:

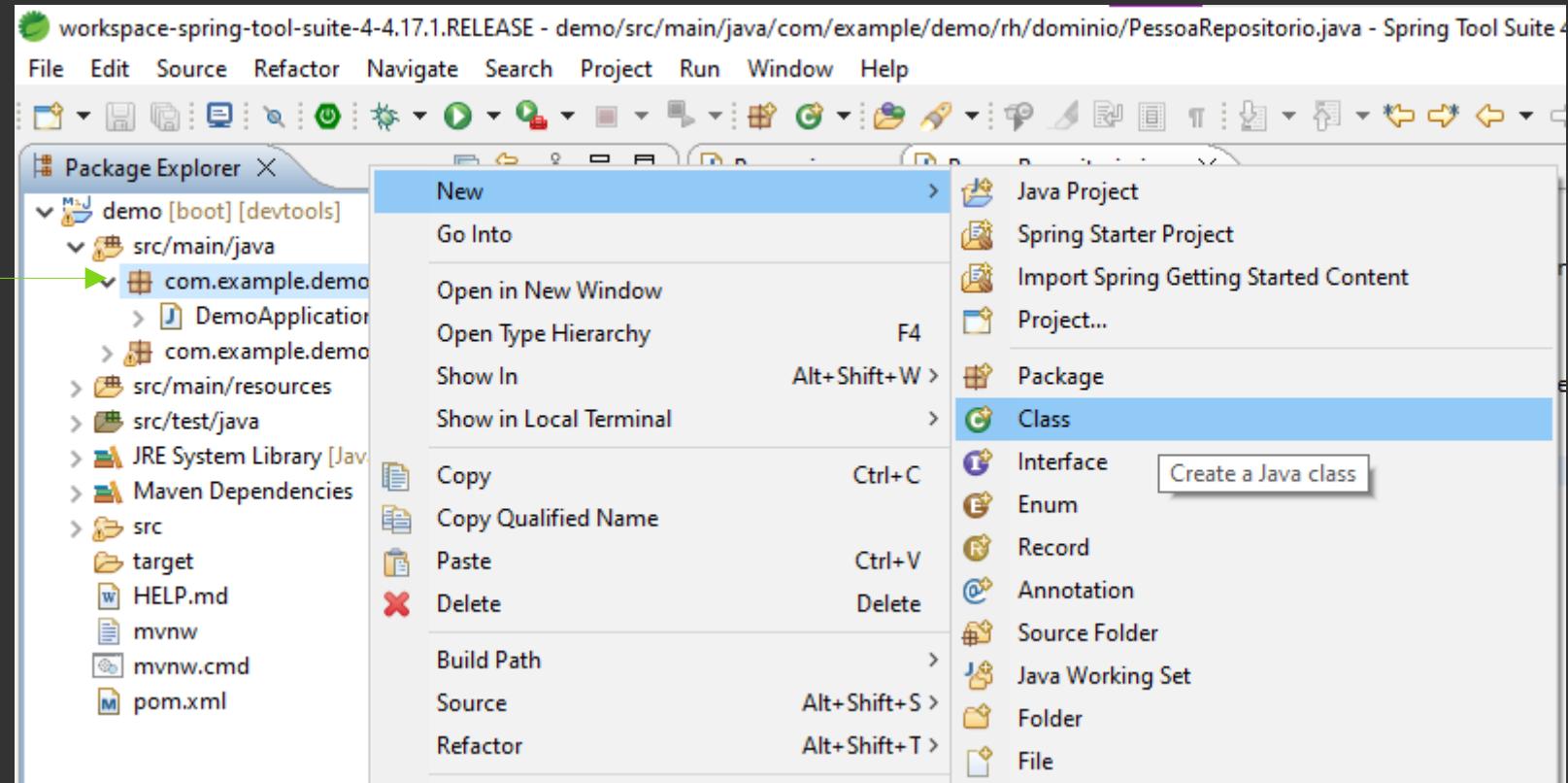
- demo [boot] [devtools]
- src/main/java
  - com.example.demo
  - com.example.demo.rh.dominio
    - Pessoa.java
    - PessoaRepository.java
- src/main/resources
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

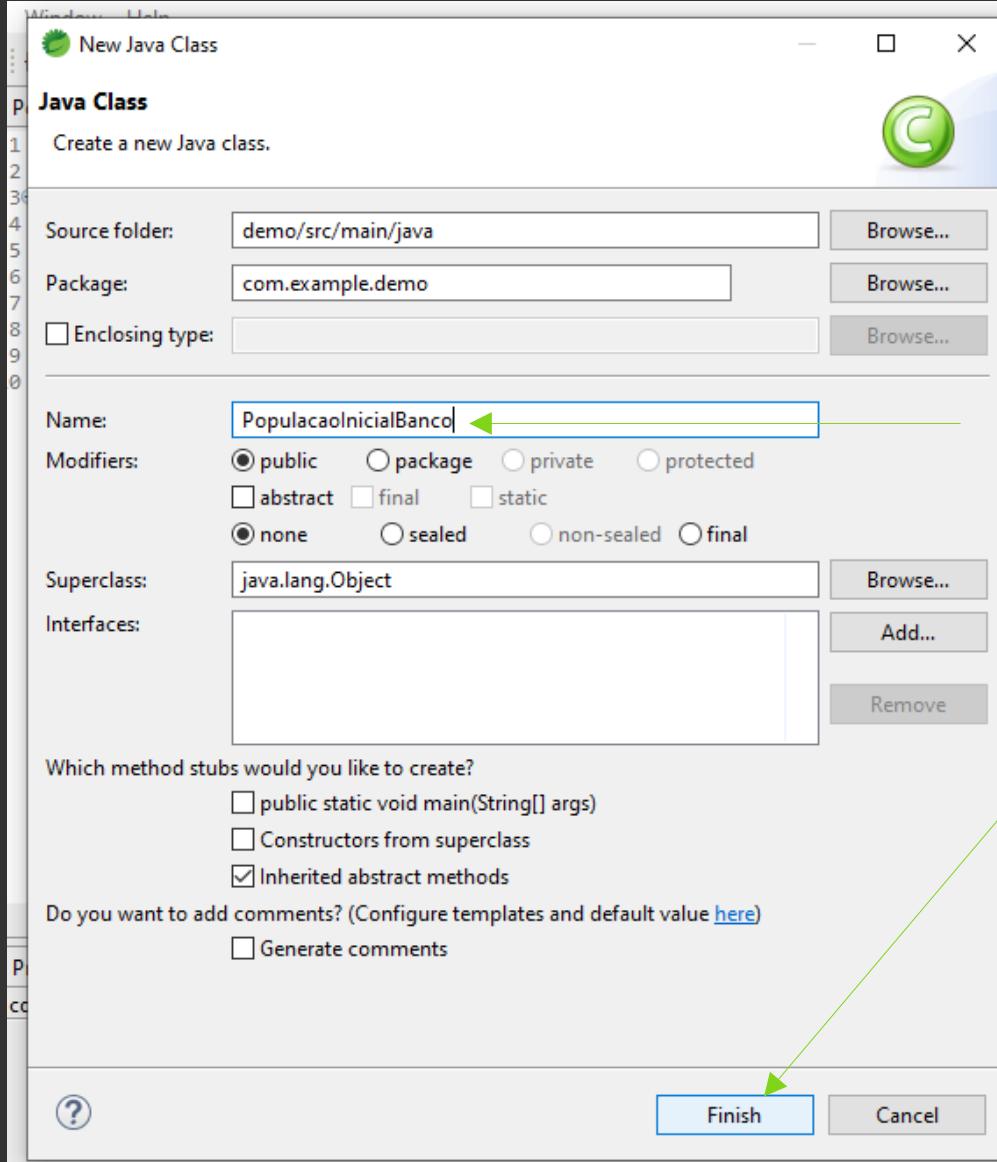
The main view displays the code for `PessoaRepository.java`:

```
1 package com.example.demo.rh.dominio;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4 import org.springframework.stereotype.Repository;
5
6 @Repository
7 public interface PessoaRepository extends JpaRepository<Pessoa, Long>{
8
9 }
10
```

An orange arrow points from the text "Adicione o code acima" at the bottom to the line number 10 in the code editor, indicating where new code should be added.

Adicione o code acima





workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/PopulacaolnicialBanco.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

demo [boot] [devtools]

src/main/java

com.example.demo

> DemoApplication.java

> PopulacaolnicialBanco.java

com.example.demo.rh.dominio

src/main/resources

src/test/java

JRE System Library [JavaSE-17]

Maven Dependencies

src

target

HELP.md

mvnw

mvnw.cmd

pom.xml

Pessoa.java PessoaRepository.java PopulacaolnicialBanco.java

```
1 package com.example.demo;
2
3 public class PopulacaoInicialBanco {
4
5 }
6
```

The screenshot shows the Spring Tool Suite 4 interface. The left pane is the Package Explorer, displaying the project structure:

- demo [boot] [devtools]
- src/main/java
  - com.example.demo
    - DemoApplication.java
    - PopulacaolnicialBanco.java
  - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

The right pane shows the code editor with three tabs: Pessoa.java, PessoaRepository.java, and \*PopulacaolnicialBanco.java. The code in \*PopulacaolnicialBanco.java is:

```
1 package com.example.demo;
2
3 import org.springframework.boot.CommandLineRunner;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class PopulacaoInicialBanco implements CommandLineRunner{
8
9 }
10
```

An orange arrow points from the text "Digite o code acima e selecione PopulacaolnicialBanco" at the bottom to the word "PopulacaoInicialBanco" in the code editor.

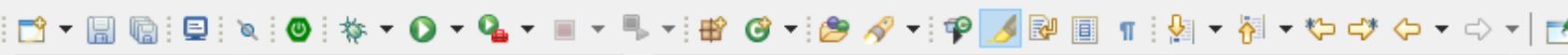
Digite o code acima e selecione PopulacaolnicialBanco

The screenshot shows the Spring Tool Suite 4 interface. The left panel is the Package Explorer, displaying the project structure for 'demo [boot] [devtools]'. The right panel is the code editor for 'PopulacaoInicialBanco.java' under the 'com.example.demo' package. The code is as follows:

```
1 package com.example.demo;
2
3 import org.springframework.boot.CommandLineRunner;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class PopulacaoInicialBanco implements CommandLineRunner{
8
9 }
10
```

An orange arrow points from the word 'implements' in line 7 to the word 'CommandLineRunner' in line 3, indicating a code completion suggestion.

Nas opções que aparecem add unplements methods



## Package Explorer X

```
demo [boot] [devtools]
src/main/java
  com.example.demo
    DemoApplication.java
    PopulacaolnicialBanco.java
  com.example.demo.rh.dominio
src/main/resources
src/test/java
JRE System Library [JavaSE-17]
Maven Dependencies
src
  target
  HELP.md
  mvnw
  mvnw.cmd
  pom.xml
```

## Pessoa.java PessoaRepository.java \*PopulacaolnicialBanco.java X

```
1 package com.example.demo;
2
3 import org.springframework.boot.CommandLineRunner;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class PopulacaolnicialBanco implements CommandLineRunner{
8
9 }
10
```

- Add unimplemented methods
- Create new JUnit test case for 'PopulacaolnicialBanco.java'
- Make type 'PopulacaolnicialBanco' abstract
- Rename in file (Ctrl+2, R)
- Rename in workspace

1 method to implement:  
- org.springframework.boot.Comm

Press 'Tab' to

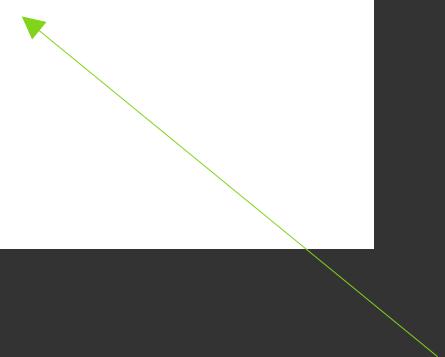
workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/PopulacaoInicialBanco.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

Pessoa.java PessoaRepository.java \*PopulacaoInicialBanco.java X

```
1 package com.example.demo;
2
3 import org.springframework.boot.CommandLineRunner;
4 import org.springframework.stereotype.Component;
5
6 @Component
7 public class PopulacaoInicialBanco implements CommandLineRunner{
8
9     @Override
10    public void run(String... args) throws Exception {
11        // TODO Auto-generated method stub
12
13    }
14
15 }
16
```



The screenshot shows the Spring Tool Suite 4 interface. The left pane is the 'Package Explorer' showing the project structure:

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.dominio
    - src/main/resources
    - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml

resultado

Adicione o code e daqui pra frente nçao usarei mais setas pra mostrar as  
Inserções de code

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/PopulacaoInicialBanco.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

demo [boot] [devtools]

src/main/java

com.example.demo

> DemoApplication.java

> PopulacaoInicialBanco.java

> com.example.demo.rh.dominio

> src/main/resources

> src/test/java

> JRE System Library [JavaSE-17]

> Maven Dependencies

> src

> target

HELP.md

mvnw

mvnw.cmd

pom.xml

Pessoa.java PessoaRepository.java PopulacaoInicialBanco.java X

```
1 package com.example.demo;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.boot.CommandLineRunner;
5 import org.springframework.stereotype.Component;
6
7 import com.example.demo.rh.dominio.PessoaRepository;
8
9 @Component
10 public class PopulacaoInicialBanco implements CommandLineRunner{
11
12     @Autowired
13     private PessoaRepository pessoaRepo; ←
14
15     @Override
16     public void run(String... args) throws Exception {
17         // TODO Auto-generated method stub
18     }
19
20 }
21
22 }
```



## Package Explorer X

```
demo [boot] [devtools]
  src/main/java
    com.example.demo
      DemoApplication.java
      PopulacaolnicialBanco.java
    com.example.demo.rh.dominio
  src/main/resources
  src/test/java
  JRE System Library [JavaSE-17]
  Maven Dependencies
  src
  target
  HELP.md
  mvnw
  mvnw.cmd
  pom.xml
```

Crie o objeto e com o operador de ponto acesse as propriedades

```
Pessoa.java PessoaRepository.java *PopulacaolnicialBanco.java X
```

```
1 package com.example.demo;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.boot.CommandLineRunner;
5 import org.springframework.stereotype.Component;
6
7 import com.example.demo.rh.dominio.PessoaRepository;
8
9 @Component
10 public class PopulacaoInicialBanco implements CommandLineRunner{
11
12     @Autowired
13     private PessoaRepository pessoaRepo;
14
15     @Override
16     public void run(String... args) throws Exception {
17         // TODO Auto-generated method stub
18
19         Pessoa p1 = new Pessoa("Joao");
20         p1.set
21     }
22
23
24
25 }
```

Pesso  
● setCpf(String cpf) : void - com.example.demo.rh.dominio.Pessoa  
● setDataNascimento(LocalDate dataNascimento) : void - com.example.demo.rh.dominio.Pesso  
● setEmail(String email) : void - com.example.demo.rh.dominio.Pesso  
● setId(Long id) : void - com.example.demo.rh.dominio.Pesso  
● setNome(String nome) : void - com.example.demo.rh.dominio.Pesso  
● setTelefone(String telefone) : void - com.example.demo.rh.dominio.Pesso



## Package Explorer X

```
demo [boot] [devtools]
  src/main/java
    com.example.demo
      DemoApplication.java
      PopulacaoInicialBanco.java
    com.example.demo.rh.dominio
  src/main/resources
  src/test/java
  JRE System Library [JavaSE-17]
  Maven Dependencies
  src
    target
    HELP.md
    mvnw
    mvnw.cmd
    pom.xml
```

## Pessoa.java

```
1 package com.example.demo;
2
3 import java.time.LocalDate;
4
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.boot.CommandLineRunner;
7 import org.springframework.stereotype.Component;
8
9 import com.example.demo.rh.dominio.Pessoa;
10 import com.example.demo.rh.dominio.PessoaRepository;
11
12 @Component
13 public class PopulacaoInicialBanco implements CommandLineRunner{
14
15     @Autowired
16     private PessoaRepository pessoaRepo;
17
18     @Override
19     public void run(String... args) throws Exception {
20         // TODO Auto-generated method stub
21
22         Pessoa p1 = new Pessoa("Joao");
23         p1.setDataNascimento(LocalDate.of(1990, 4, 1));
24         Pessoa p2 = new Pessoa("Maria");
25     }
26
27
28 }
```

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## Boot Dashboard X

Package Explorer X

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaoInicialBanco.java
    - com.example.demo.rh.dominio
  - src/main/resources
  - src/test/java
  - JRE System Library [JavaSE-17]
  - Maven Dependencies
  - src
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
  - pom.xml

Pessoa.java PessoaRepository.java \*PopulacaoInicialBanco.java X

```
1 package com.example.demo;
2
3 import java.time.LocalDate;
4
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.boot.CommandLineRunner;
7 import org.springframework.stereotype.Component;
8
9 import com.example.demo.rh.dominio.Pessoa;
10 import com.example.demo.rh.dominio.PessoaRepository;
11
12 @Component
13 public class PopulacaoInicialBanco implements CommandLineRunner{
14
15     @Autowired
16     private PessoaRepository pessoaRepo;
17
18     @Override
19     public void run(String... args) throws Exception {
20         // TODO Auto-generated method stub
21
22         Pessoa p1 = new Pessoa("Joao");
23         p1.setDataNascimento(LocalDate.of(1990, 4, 1));
24         p1.set
25     }
26 }
```

Problems Java

- setCpf(String cpf) : void - Pessoa
- setDataNascimento(LocalDate dataNascimento) : void - Pessoa
- setEmail(String email) : void - Pessoa
- setId(Long id) : void - Pessoa
- setNome(String nome) : void - Pessoa
- setTelefone(String telefone) : void - Pessoa

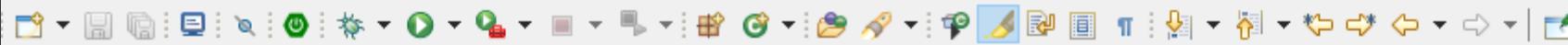
Boot Dashboard X

- Type tags, projects, or working set names to match (incl. \* ai)



```
19 public void run(String... args) throws Exception {
20     // TODO Auto-generated method stub
21
22     Pessoa p1 = new Pessoa("Joao");
23     p1.setDataNascimento(LocalDate.of(1990, 4, 1));
24     p1.setEmail("joao@gmail.com"); ←
25     Pessoa p1 = new Pessoa("Maria");
26 }
27
28 }
29 }
```

Copy essas info para um novo objeto



## Package Explorer X

```
demo [boot] [devtools]
  src/main/java
    com.example.demo
      DemoApplication.java
      PopulacaoInicialBanco.java
    com.example.demo.rh.dominio
  src/main/resources
  src/test/java
  JRE System Library [JavaSE-17]
  Maven Dependencies
  src
    target
    HELP.md
    mvnw
    mvnw.cmd
    pom.xml
```

## Pessoa.java PessoaRepository.java PopulacaoInicialBanco.java X

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
import com.example.demo.rh.dominio.Pessoa;
import com.example.demo.rh.dominio.PessoaRepository;
@Component
public class PopulacaoInicialBanco implements CommandLineRunner{
    @Autowired
    private PessoaRepository pessoaRepo;
    @Override
    public void run(String... args) throws Exception {
        // TODO Auto-generated method stub
        Pessoa p1 = new Pessoa("Joao");
        p1.setDataNascimento(LocalDate.of(1990, 4, 1));
        p1.setEmail("joao@gmail.com");
        Pessoa p2 = new Pessoa("Maria");
        p1.setDataNascimento(LocalDate.of(1990, 1, 1));
        p1.setEmail("maria@gmail.com");
        pessoaRepo.save(p1);
        pessoaRepo.save(p2);
    }
}
```

## Boot Dashboard X



## Adicione essa anotation

The screenshot shows the Spring Tool Suite 4 interface. The title bar reads "workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/PopulacaoInicialBanco.java - Spring Tool Suite 4". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar has various icons for file operations like Open, Save, Find, and Run.

The Package Explorer view on the left shows the project structure:

- demo [boot] [devtools]
- src/main/java
  - com.example.demo
    - DemoApplication.java
    - PopulacaoInicialBanco.java
  - com.example.demo.rh.dominio
- src/main/resources
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

The code editor on the right displays the file `PopulacaoInicialBanco.java`. The code is as follows:

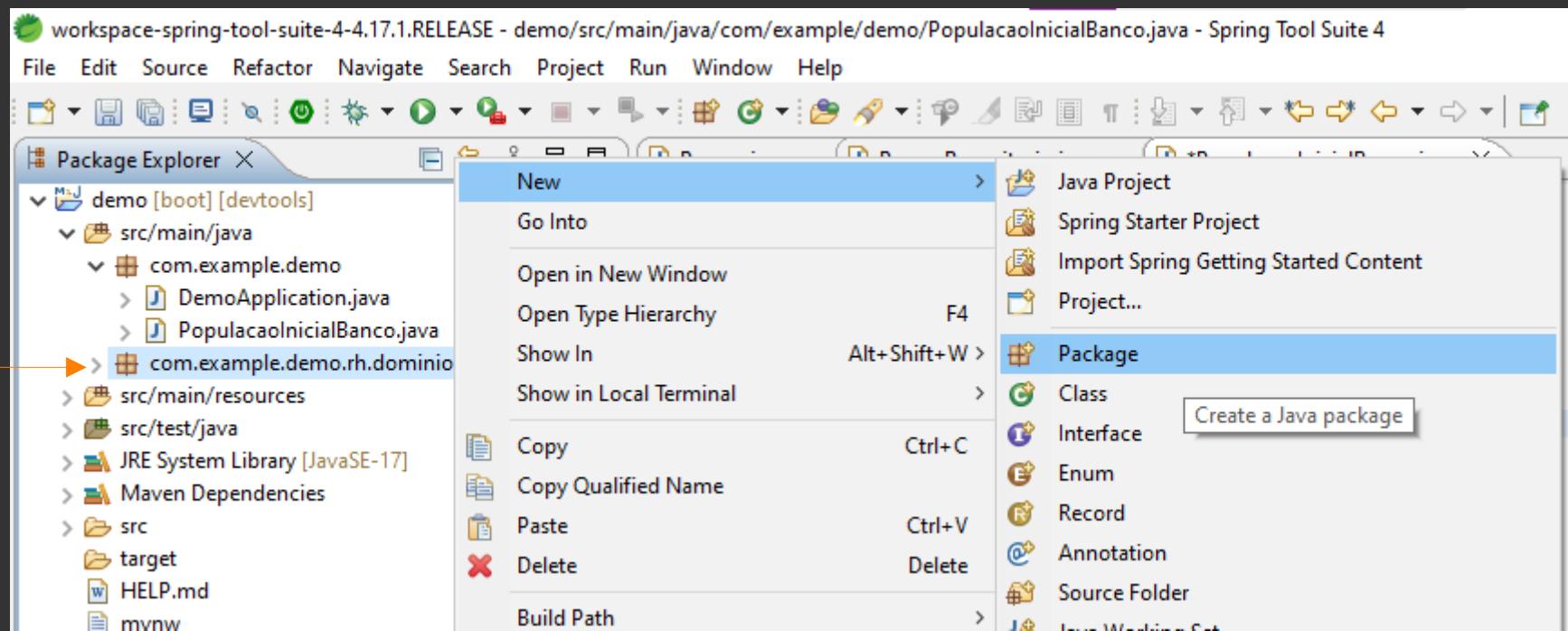
```
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
import com.example.demo.rh.dominio.Pessoa;
import com.example.demo.rh.dominio.PessoaRepository;
import jakarta.transaction.Transactional;

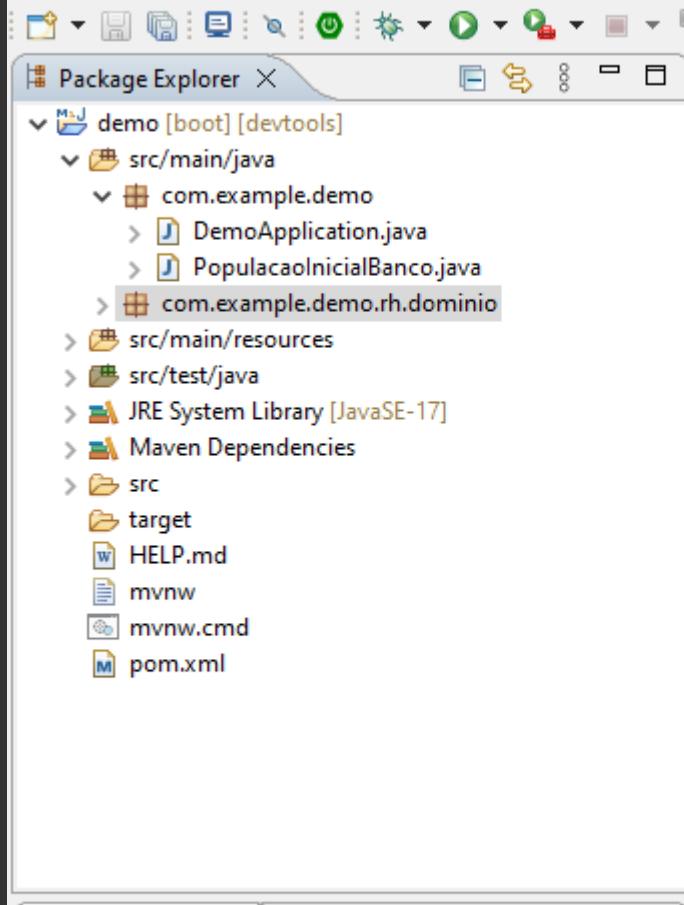
@Component
@Transactional
public class PopulacaoInicialBanco implements CommandLineRunner{

    @Autowired
    private PessoaRepository pessoaRepo;

    @Override
    public void run(String... args) throws Exception {
        // TODO Auto-generated method stub
        Pessoa p1 = new Pessoa("Joao");
    }
}
```

A green arrow points to the `@Transactional` annotation on line 15, indicating where it should be added.





```
Pessoa.java
1 import
2 import
3 import
4 import
5 import
6 import
7 import
8 import
9 import
10 import
11 import
12 import
13 import
14 @Component
15 @Transactional
16 public
17     @A
18     pr
19     @O
20     pu
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35 }
```

### New Java Package

#### Java Package

Create a new Java package.

Creates folders corresponding to packages.

Source folder: demo/src/main/java

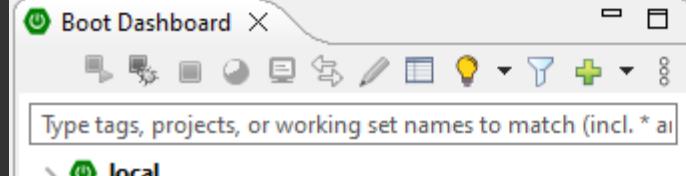
Name: com.example.demo.rh.dominio

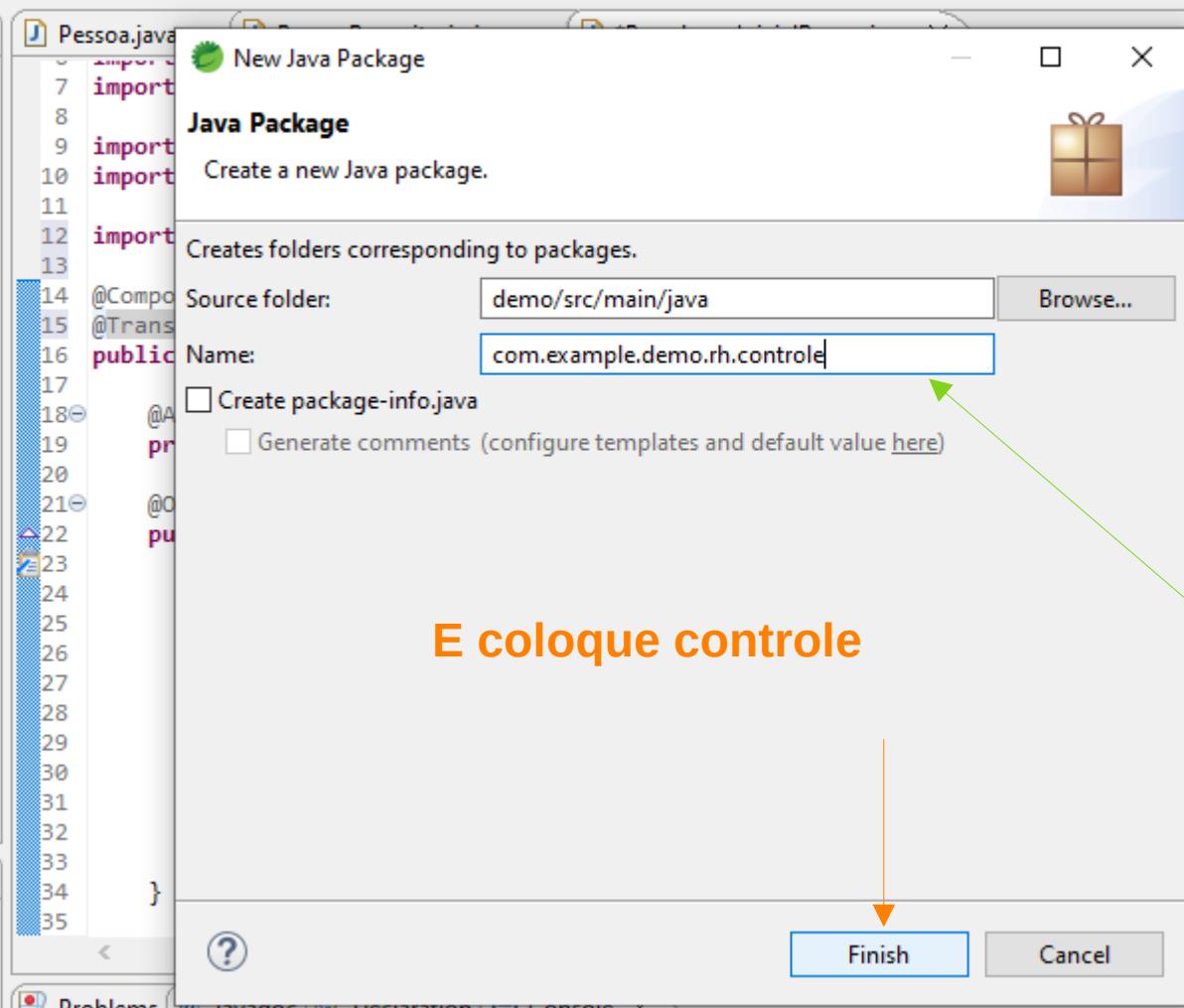
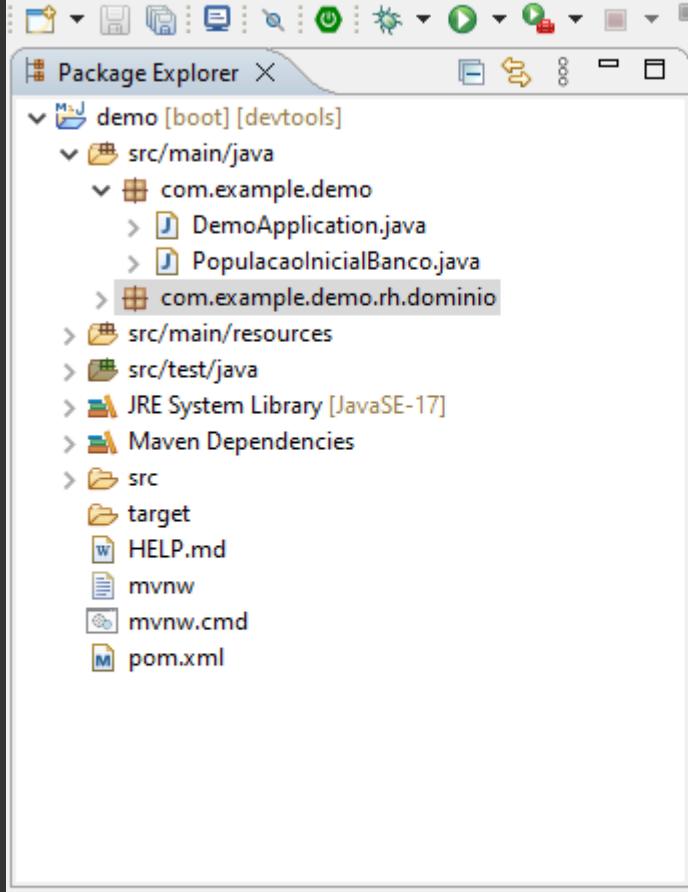
Create package-info.java

Generate comments (configure templates and default value [here](#))

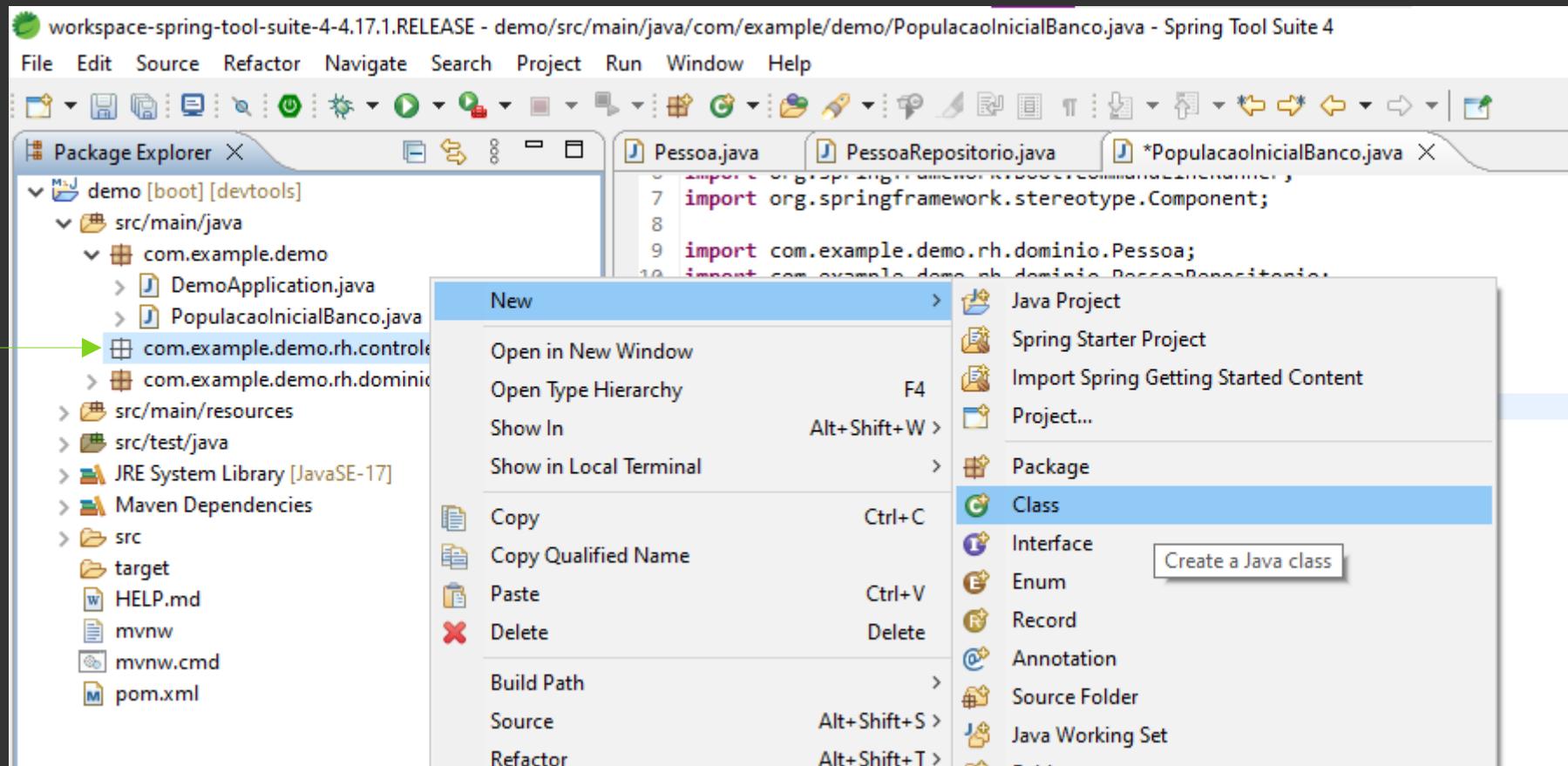


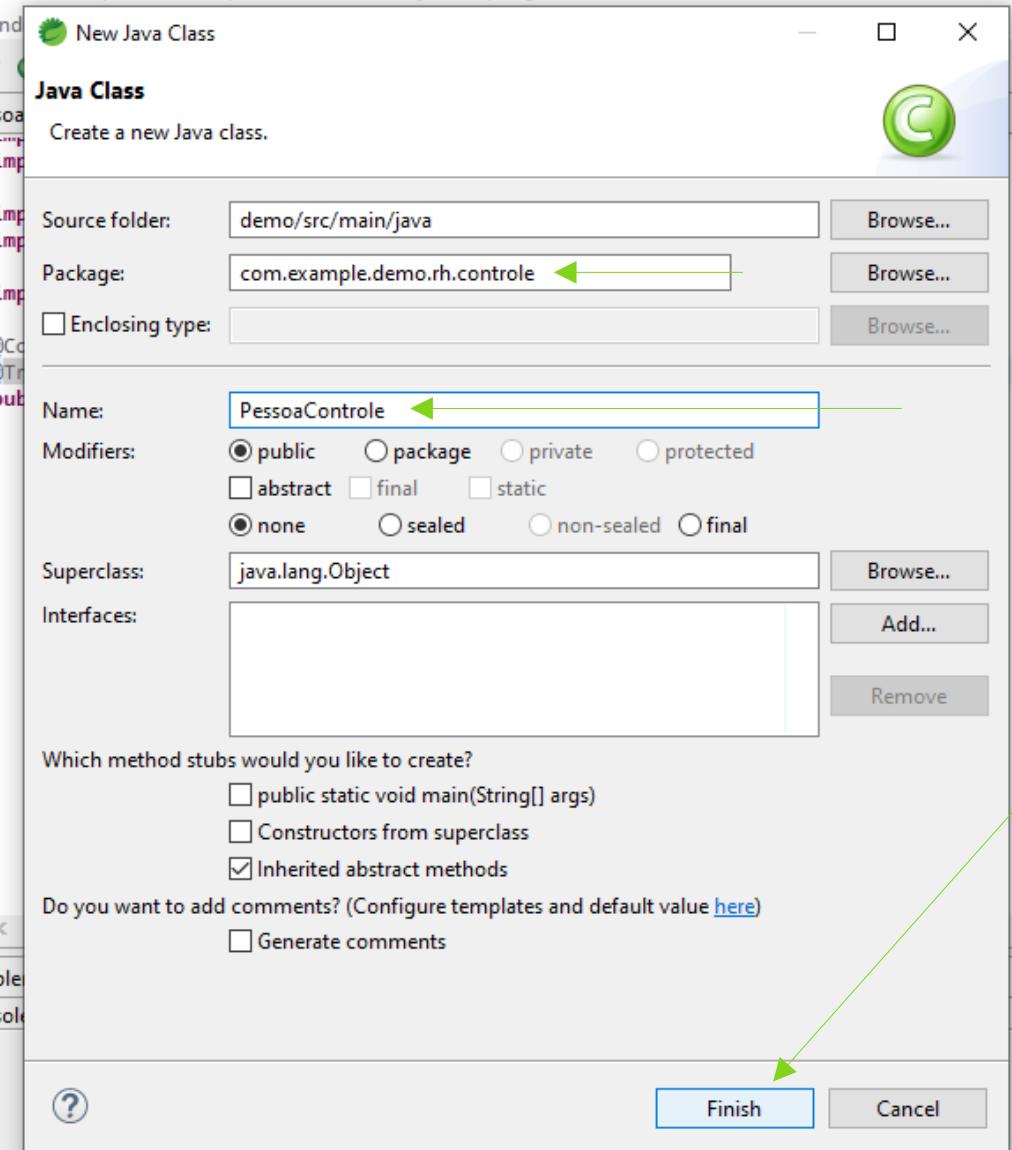
Apague dominio

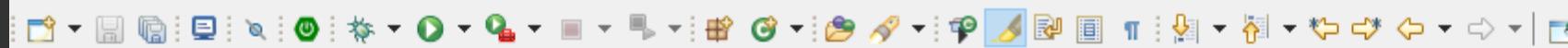




## Crie uma class no pacote criado controle



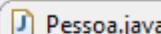




## Package Explorer X

```
demo [boot] [devtools]
  src/main/java
    com.example.demo
      DemoApplication.java
      PopulacaolnicialBanco.java
    com.example.demo.rh.controle
      PessoaControle.java
    com.example.demo.rh.dominio
  src/main/resources
  src/test/java
  JRE System Library [JavaSE-17]
  Maven Dependencies
  src
    target
    HELP.md
    mvnw
    mvnw.cmd
    pom.xml
```

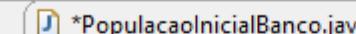
## Pessoa.java



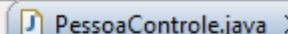
## PessoaRepository.java



## \*PopulacaolnicialBanco.java



## PessoaControle.java X



```
1 package com.example.demo.rh.controle;
2
3 public class PessoaControle {
4
5 }
```

Digite o code e preste atenção aos imports  
Obs importe do pacote certo

The screenshot shows the Spring Tool Suite 4 interface. The left sidebar displays the 'Package Explorer' with the project structure:

- demo [boot] [devtools]
- src/main/java
  - com.example.demo
    - DemoApplication.java
    - PopulacaoInicialBanco.java
  - com.example.demo.rh.controle
    - PessoControle.java
  - com.example.demo.rh.dominio
- src/main/resources
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
- target

The right panel shows the code editor for 'PessoControle.java'. The code is as follows:

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoControle {
9
10    @GetMapping
11    public String pessoas(Model model) {
12
13    }
14
15 }
16
```

The word 'Model' is highlighted in blue, indicating it is a misspelling of 'Model'.

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.web.bind.annotation.GetMapping;
5
6 @Controller
7 public class PessoaControle {
8
9     @GetMapping
10    public String pessoas(Model model) {
11
12    }
13
14 }
15
```

The screenshot shows an IDE interface with several tabs at the top: Pessoa.java, PessoaRepository.java, \*PopulacaoInicialBanco.java, and \*PessoaControle.java. The \*PessoaControle.java tab is active. The code in the editor is a simple Spring MVC controller. At line 10, there is a red error icon next to the word 'Model'. A context menu is open at this position, listing several options:

- ← Import 'Model' (ch.qos.logback.core.model)
- Import 'Model' (org.springframework.ui) (highlighted with a blue selection bar and an orange arrow pointing to it)
- Create class 'Model'
- Create record 'Model'
- Create interface 'Model'
- Assign parameter to new field
- Change to 'ColorModel' (java.awt.image)
- Change to 'ElseModel' (ch.qos.logback.core.model.conditional)
- Change to 'Model' (ch.qos.logback.core.model)

Package Explorer X Pessoajava PessoRepository.java \*PopulacaolnicialBanco.java \*PessoaControle.java X

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoaControle {
9
10    @GetMapping
11    public String pessoas(Model model) {
12        model.addAttribute("attributeName", "attributeValue");
13    }
14
15 }
16
17 }
```

Add the supplied attribute under the supplied name  
Parameters:  
attributeName the name of the model attribute  
attributeValue the model attribute value (optional)

The screenshot shows a Java code editor interface with the following details:

- Title Bar:** The title bar displays several tabs: "Pessoa.java", "PessoaRepository.java", "\*PopulacaonicialBanco.java", and "\*PessoaControle.java".
- Code Area:** The main area contains Java code for a controller class named "PessoaControle".

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoaControle {
9
10    @GetMapping("/rh/pessoas")
11    public String pessoas(Model model) {
12        model.addAttribute("listaPessoas", attributeValue);
13    }
14
15 }
16
```
- Toolbars and Status Bar:** Standard Java development toolbars and status bars are visible at the top and bottom of the window.

The screenshot shows the Spring Tool Suite 4 interface with the following details:

- Project Explorer:** Shows the project structure under the package `demo [boot] [devtools]`. It includes `src/main/java` with `com.example.demo` containing `DemoApplication.java` and `PopulacaoInicialBanco.java`, and `com.example.demo.rh.controle` containing `PessoaControle.java`. It also shows `src/main/resources`, `src/test/java`, and Maven dependencies.
- Code Editor:** The active file is `PessoaControle.java`. The code defines a `@Controller` class named `PessoaControle` with a private field `pessoasRepo`. A code completion dropdown is open at this line, listing several options related to `PessoaRepository`.
- Outline View:** Shows the class structure with `PessoaControle` having a field `pessoasRepo`.
- Bottom Status Bar:** Displays "Press 'Tab' from proposal table or click for focus".

Code Completion Options (from dropdown):

- ← Import 'PessoaRepository' (com.example.demo.rh.dominio)
- C Create class 'PessoaRepository'
- R Create record 'PessoaRepository'
- I Create interface 'PessoaRepository'
- E Create enum 'PessoaRepository'
- Add type parameter 'PessoaRepository' to 'PessoaControle'
- Rename in file (Ctrl+2, R)
- Fix project setup...

Code in `PessoaControle.java`:

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 @Controller
8 public class PessoaControle {
9
10    private PessoaRepository pessoasRepo;
11
12    @GetMapping("pessoas")
13    public String index(Model model) {
14        model.addAttribute("pessoas", pessoasRepo.findAll());
15    }
16
17 }
18
```

Code in the bottom right panel:

```
...
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;

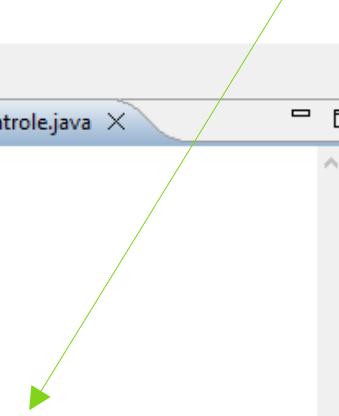
import com.example.demo.rh.dominio.PessoaRepository;
...
```

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/controle/PessoaControle.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X Pessoajava PessoaRepository.java \*PopulacaolnicialBanco.java \*Pessoajava

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import com.example.demo.rh.dominio.PessoaRepository; ←
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepository pessoasRepo;
13
14     @GetMapping("/rh/pessoas")
15     public String pessoas(Model model) {
16         model.addAttribute("listaPessoas", pessoasRepo.findAll());
17     }
18
19 }
20
```



Package Explorer X Pessoas.java PessoaRepository.java \*PopulacaoInicialBanco.java \*PessoaControle.java O

```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import com.example.demo.rh.dominio.PessoaRepository;
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepository pessoaRepo;
13
14     public PessoaControle(PessoaRepository pessoaRepo) {
15         this.pessoaRepo = pessoaRepo;
16
17     }
18
19     @GetMapping("/rh/pessoas")
20     public String pessoas(Model model) {
21         model.addAttribute("listapessoas", pessoaRepo.f
22
23         Returns all instances of the type.
24         Specified by: findAll() in CrudRepository
25         Returns:
26             all entities
```

findAll() : List<Pessoa> - ListCrudRepository  
findAll(Example<S> example) : List<S> - JpaRepository  
findAll(Pageable pageable) : Page<Pessoa> - PagingAndSortingRepository  
findAll(Sort sort) : List<Pessoa> - ListPagingAndSortingRepository  
findAll(Example<S> example, Pageable pageable) : Page<S> - C  
findAll(Example<S> example, Sort sort) : List<S> - JpaRepositor  
findAllById(Iterable<Long> ids) : List<Pessoa> - ListCrudReposit

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/rh/controle/PessoaControle.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

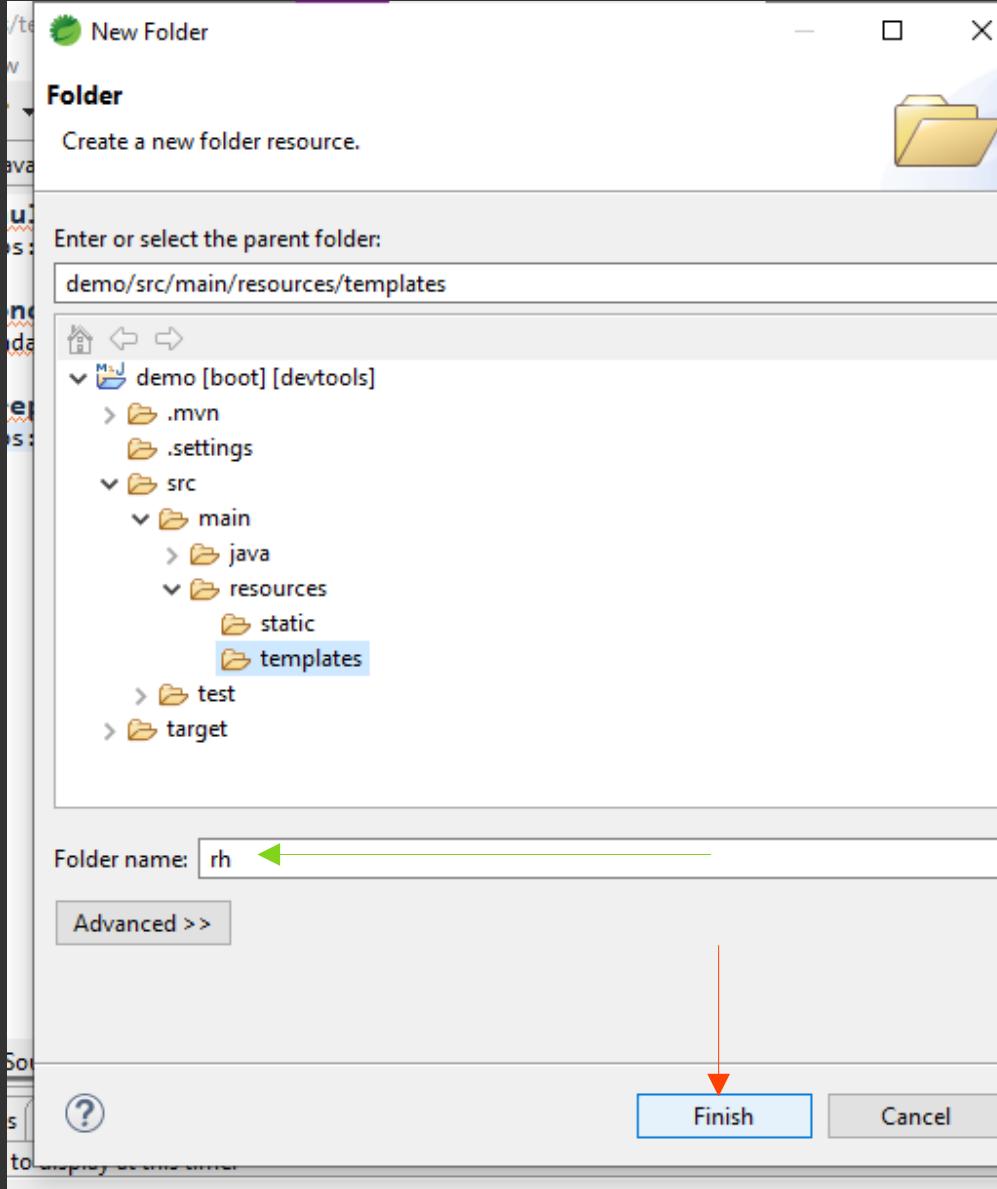
Package Explorer X Pessoajava PessoaRepository.java \*PopulacaolnicialBanco.java PessoaControle.java X

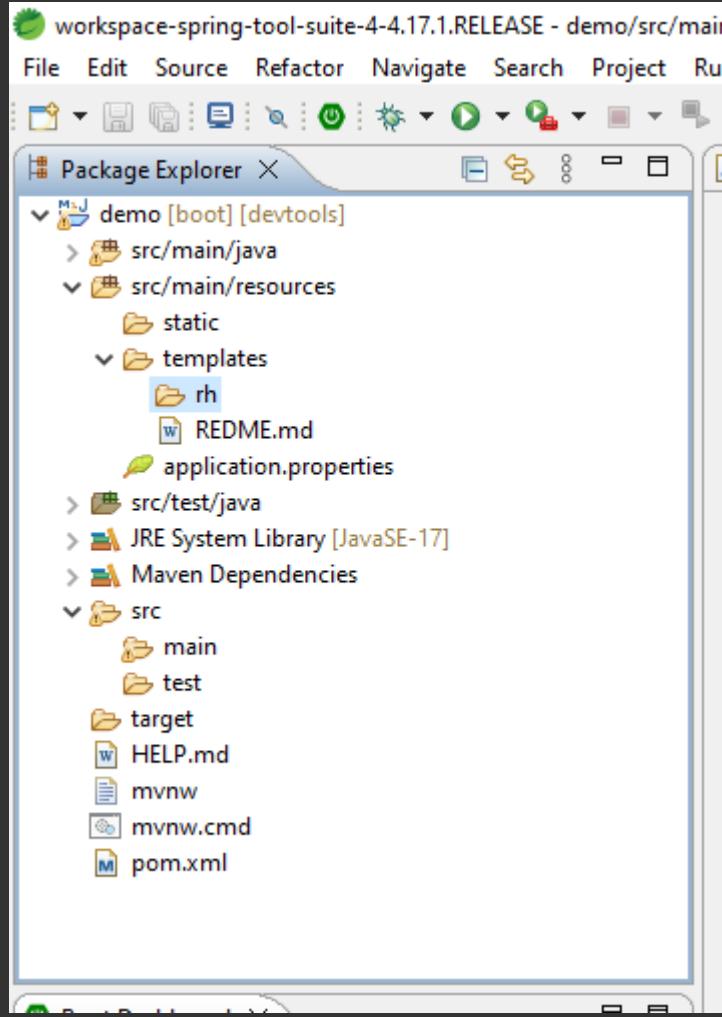
```
1 package com.example.demo.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import com.example.demo.rh.dominio.PessoaRepository;
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepository pessoaRepo;
13
14     public PessoaControle(PessoaRepository pessoaRepo) {
15         this.pessoaRepo = pessoaRepo;
16
17     }
18
19     @GetMapping("/rh/pessoas")
20     public String pessoas(Model model) {
21         model.addAttribute("listaPessoas", pessoaRepo.findAll());
22         return "rh/pessoas/index";
23     }
24
25 }
26
```

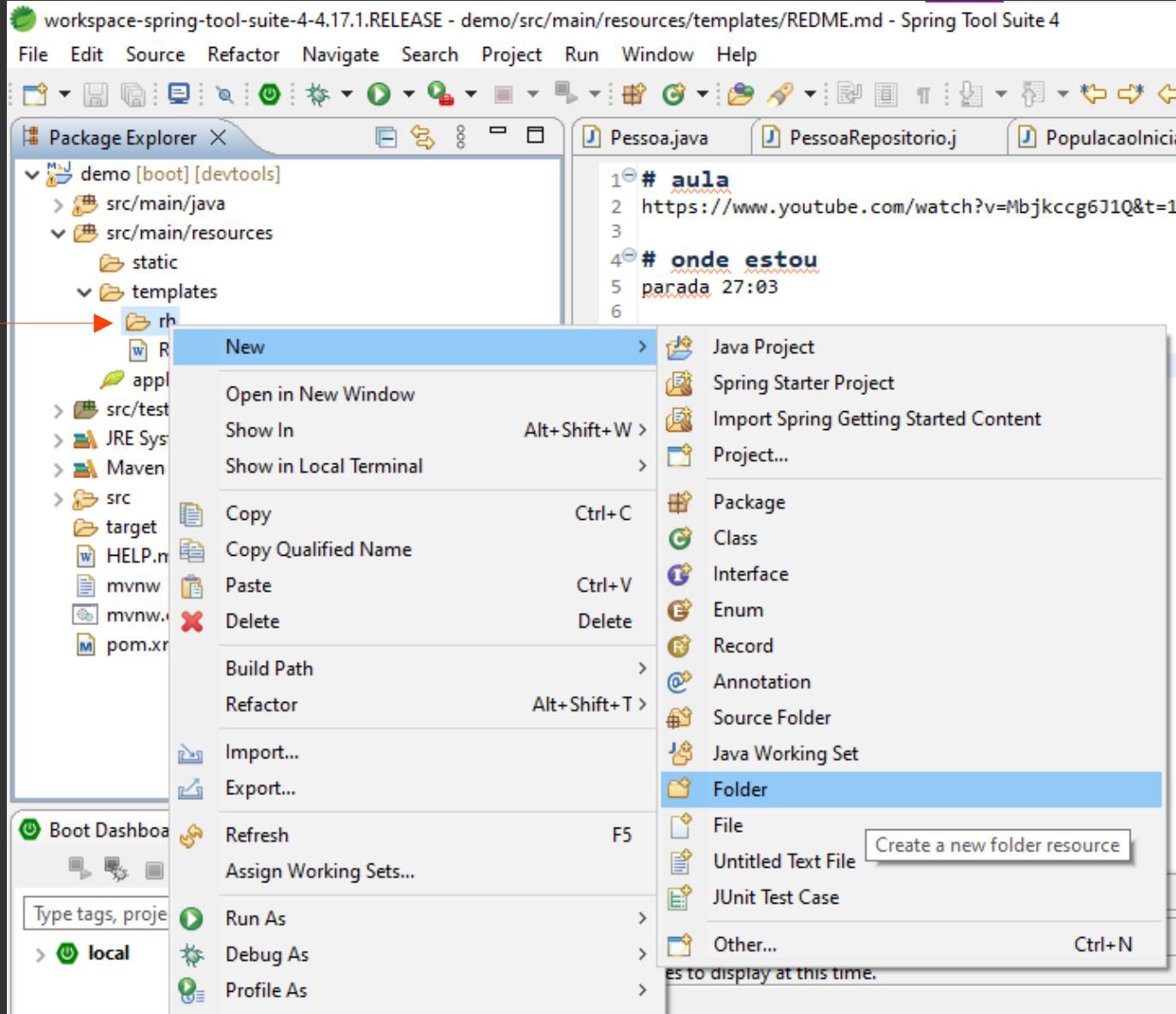
The screenshot shows the Spring Tool Suite 4 interface with the following details:

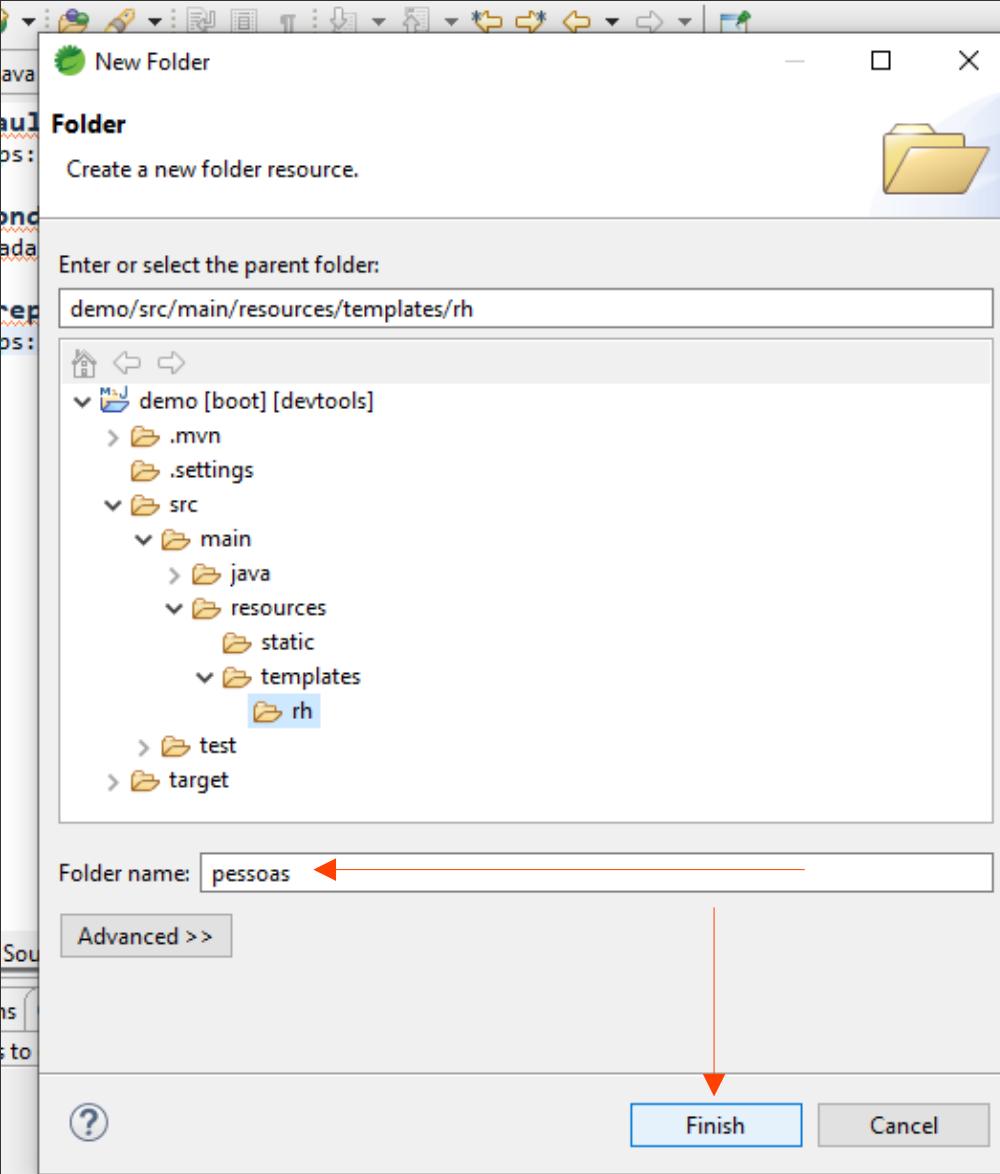
- Project Structure:** The "Package Explorer" view shows a project named "demo [boot] [devtools]" with the following structure:
  - src/main/java
  - src/main/resources
    - static
    - templatet
  - src/test/java
  - JRE System Library
  - Maven Dependencies
  - src
    - main
    - test
    - target
    - HELP.md
    - mvnw
    - mvnw.cmd
    - pom.xml
- Code Editor:** The right panel displays two files: "Pessoa.java" and "PessoaRepository.java". The "Pessoa.java" file contains the following code:

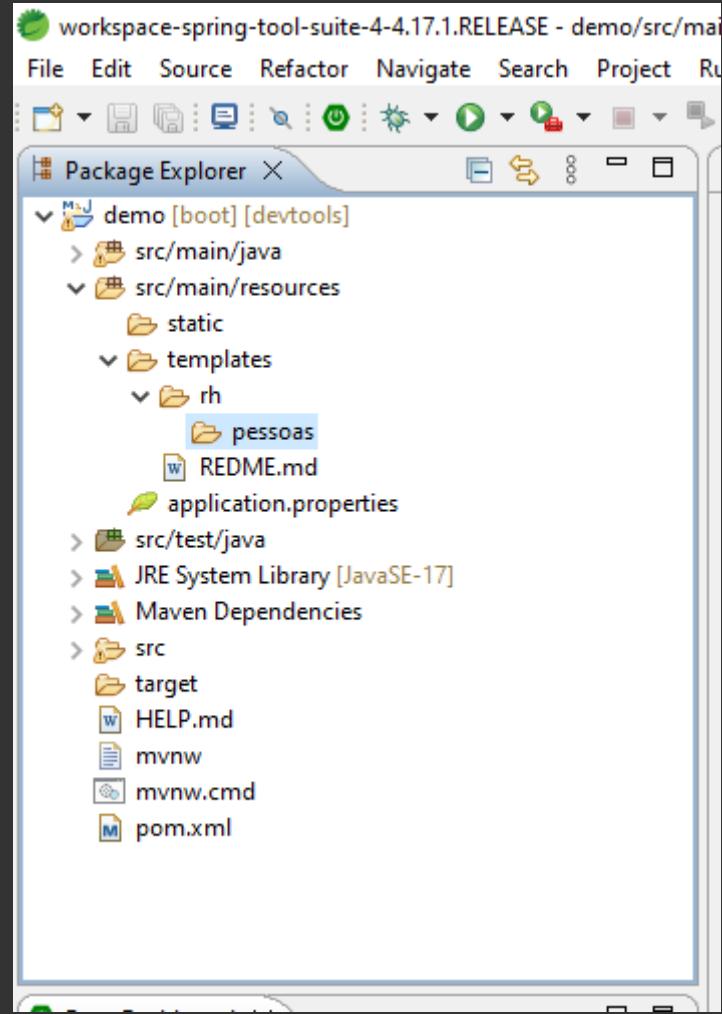
```
1# aula
2https://www.youtube.com/watch?v=Mbjkccg6J1Q&t=13s
3
4# onde estou
5narrada 27-03
```
- Context Menu:** A context menu is open over the "templatet" folder in the Package Explorer. The "New" option is highlighted, and a submenu is shown with the following items:
  - Java Project
  - Spring Starter Project
  - Import Spring Getting Started Content
  - Project...
  - Package
  - Class
  - Interface
  - Enum
  - Record
  - Annotation
  - Source Folder
  - Java Working Set
  - Folder
    - Create a new folder resource
    - Untitled Text File
    - JUnit Test Case
    - Other...
- Bottom Bar:** The bottom bar includes tabs for Javadoc, Declaration, and Console, along with a message: "display at this time."











Package Explorer X

demo [boot] [devtools]

- src/main/java
- src/main/resources
  - static
  - templates
    - rh

pessoas

REDME.md

application.properties

src/test/java

JRE System Library

Maven Dependencies

src

target

HELP.md

mvnw

mvnw.cmd

pom.xml

New

- Java Project
- Spring Starter Project
- Import Spring Getting Started Content
- Project...
- Package
- Class
- Interface
- Enum
- Record
- Annotation
- Source Folder
- Java Working Set
- Folder
- File
- Untitled Text File
- JUnit Test Case
- Other... Ctrl+N

Open in New Window

Show In Alt+Shift+W >

Show in Local Terminal >

Copy Ctrl+C

Copy Qualified Name

Paste Ctrl+V

Delete Delete

Build Path >

Refactor Alt+Shift+T >

Import...

Export...

Refresh F5

Assign Working Sets...

Run As >

Debug As >

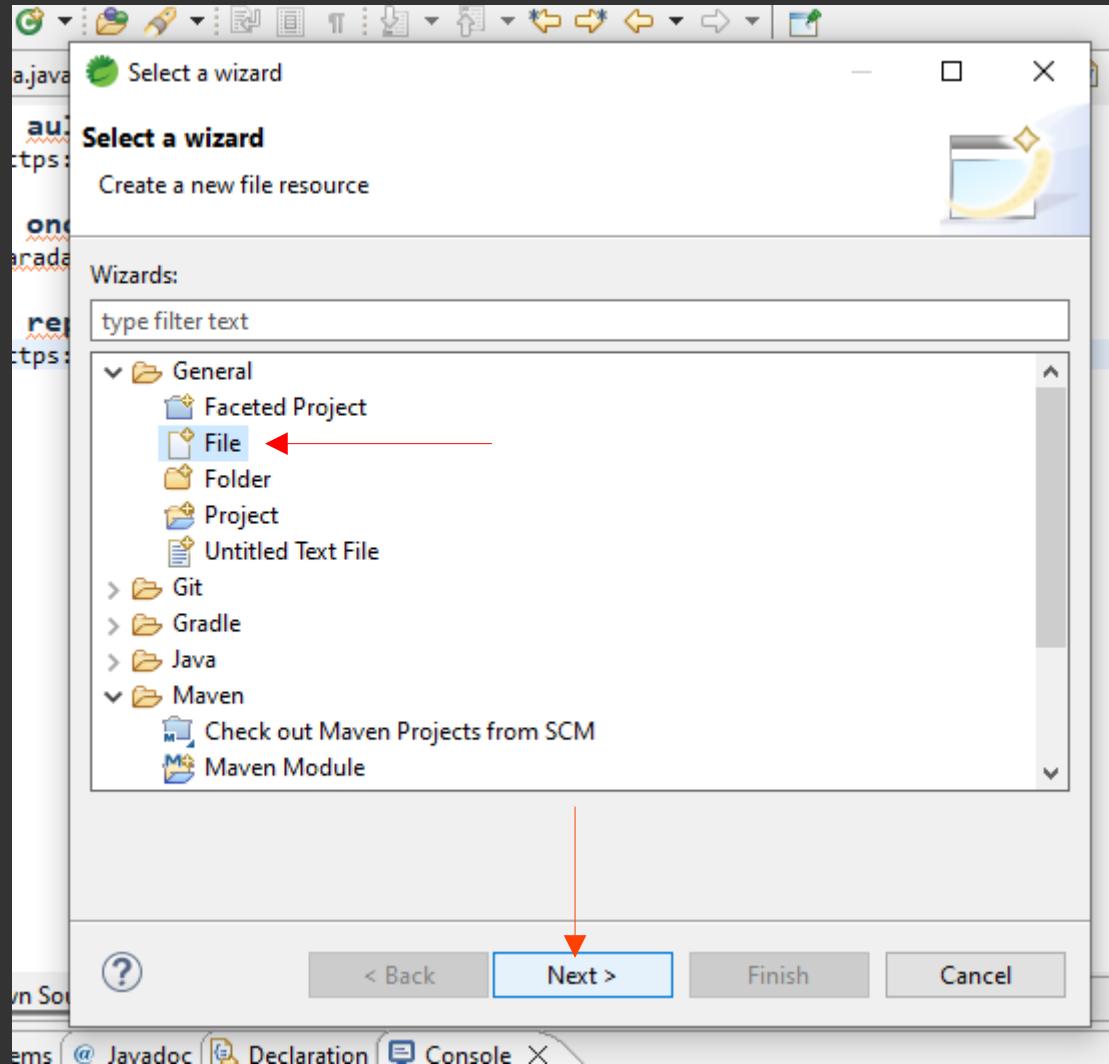
Profile As >

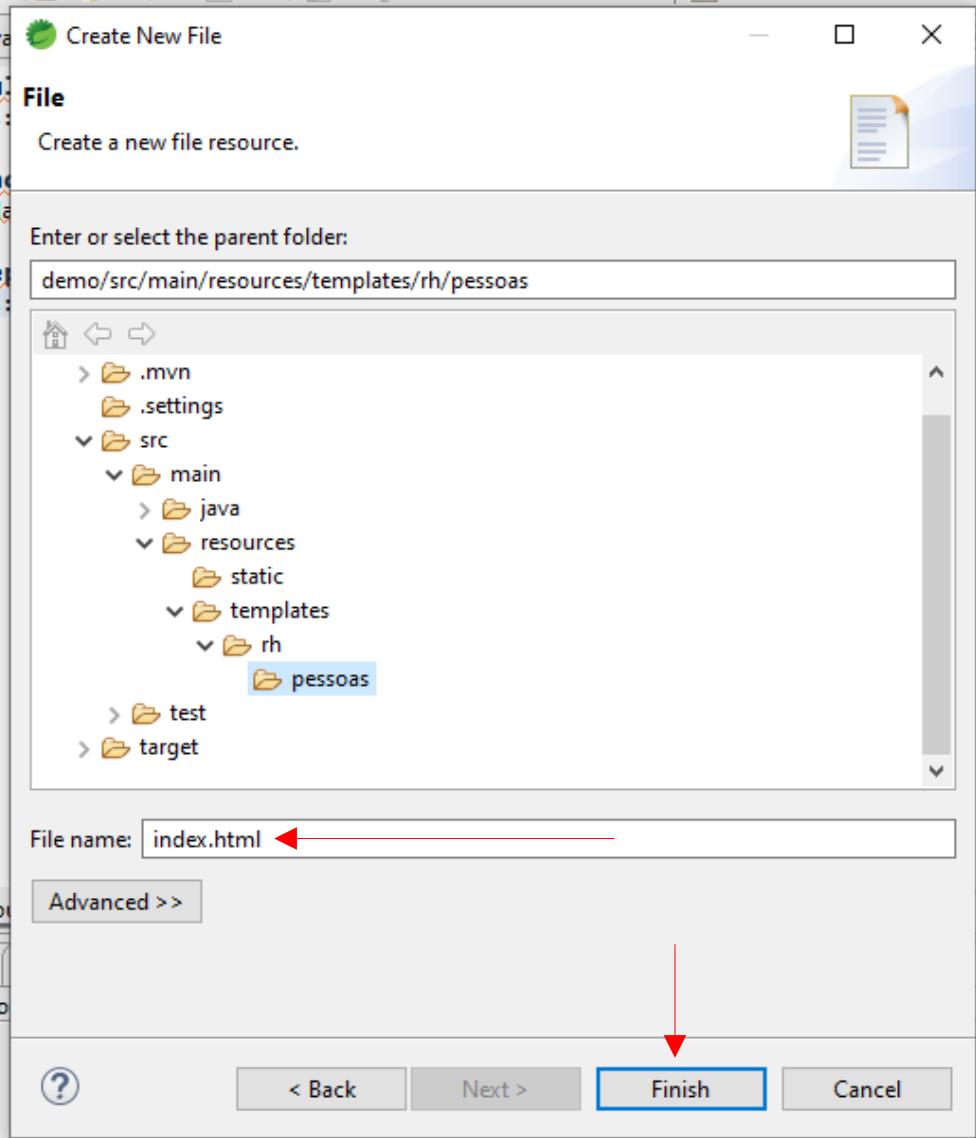
Type tags, projects, or words

local

Pessoa.java PessoaRepository.java PopulacaoInicialBa

```
1# aula
2https://www.youtube.com/watch?v=Mbjkccg6J1Q&t=13s
3
4# onde estou
5parada 27:03
6
```





workspace - poswebsys/src/main/java/br/edu/ifpr/paranavai/poswebsys/rh/controle/PessoaControle.java - Eclipse IDE

# Exemplo de CRUD - Spring Boot + Thymeleaf

Project Explorer Type Hierarchy

PessoaControle.java

```
1 package br.edu.ifpr.paranavai.poswebsys.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springframework.web.bind.annotation.GetMapping;
6
7 import br.edu.ifpr.paranavai.poswebsys.rh.dominio.PessoaRepository;
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepository pessoaRepo;
13
14     @GetMapping("listar")
15     public String listar(Model model) {
16         model.addAttribute("pessoas", pessoaRepo.findAll());
17         return "listar";
18     }
19 }
```

New > Project... > File > Folder > SQL File > Example... > Other... Ctrl+N

File Edit Source Refactor Navigate Search Project Run Window Help

Do original caso de erro

File Go Into Show In Show in Local Terminal Copy Copy Qualified Name Paste Delete Remove from Context Build Path Move... Rename... Import... Export... Refresh Show in Remote Systems view Coverage As Run As Debug As Profile As Restore from Local History... Team

Alt+Shift+W > Ctrl+C Ctrl+V Ctrl+Alt+Shift+Down F2 F5 undefined

Servers Data Source Explorer Snippets Console Progress org.eclipse.lsp4e.LanguageServerWrapper@643d807d)

# Exemplo de CRUD - Spring Boot + Thymeleaf

**Project Explorer**

- > agenda [agenda master]
- > exemplo
- poswebsys
  - src/main/java
    - br.edu.ifpr.paranavai.poswebsys
      - PopulacaoInicialBanco.java
      - PoswebsysApplication.java
    - br.edu.ifpr.paranavai.poswebsys.rh.controle
      - PessoaControle.java
    - br.edu.ifpr.paranavai.poswebsys.rh.dominio
      - Pessoa.java
      - PessoaRepositorio.java
  - src/main/resources
    - static
    - templates
      - rh
        - pessoas
  - application.properties
- src/test/java
- JRE System Library [JavaSE-1.8]
- Maven Dependencies
- src
- target
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- tarefas

**PessoaControle.java**

```

1 package br.edu.ifpr.paranavai.poswebsys.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springf
6
7 import br.edu.ifpr
8
9 @Controller
10 public class PessoaControle {
11
12     private PessoaRepository pessoaRepository;
13
14     public PessoaControle(PessoaRepository pessoaRepository) {
15         this.pessoaRepository = pessoaRepository;
16     }
17
18     @GetMapping("/")
19     public String listar(Model model) {
20         model.addAttribute("pessoas", pessoaRepository.findAll());
21         return "rh/pessoas";
22     }
23
24 }
25

```

**Select a wizard**

Create a new HTML file

**Wizards:**

type filter text

- User Assistance
- Web
  - HTML File
  - JSP File

?

< Back

Next >

Finish

Cancel

# Exemplo de CRUD - Spring Boot + Thymeleaf

## Project Explorer

```
> agenda [agenda master]
> exemplo
poswebsys
  src/main/java
    br.edu.ifpr.paranavai.poswebsys
      PopulacaoInicialBanco.java
      PoswebsysApplication.java
    br.edu.ifpr.paranavai.poswebsys.rh.controle
      PessoaControle.java
    br.edu.ifpr.paranavai.poswebsys.rh.dominio
      Pessoa.java
      PessoaRepository.java
  src/main/resources
    static
    templates
      rh
        pessoas
    application.properties
src/test/java
JRE System Library [JavaSE-1.8]
Maven Dependencies
src
target
HELP.md
mvnw
mvnw.cmd
pom.xml
tarefas
```

## PessoaControle.java

```
1 package br.edu.ifpr.paranavai.poswebsys.rh.controle;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.ui.Model;
5 import org.springf
6
7 import br.edu.ifpr
8
9 @Controller
10 public class PessoaControle {
11     private PessoaService pessoaService;
12
13     public PessoaControle(PessoaService pessoaService) {
14         this.pessoaService = pessoaService;
15     }
16
17     @GetMapping("/")
18     public String index(Model model) {
19         model.addAttribute("pessoas", pessoaService.listar());
20         return "rh/pessoas";
21     }
22
23
24 }
```

## New HTML File

Create a new HTML file.

Enter or select the parent folder:

poswebsys/src/main/resources/templates/rh/pessoas

java  
resources  
static  
templates  
rh  
pessoas  
test  
target  
tarefas

File name: index.html

Advanced >>

Markers Properties

Angular Language Server (org.eclips

[Info] Log file: unde



< Back

Next >

Finish

Cancel

# Exemplo de CRUD - Spring Boot + Thymeleaf

## Project Explorer

```
> 📁 agenda [agenda master]
> 📁 exemplo
< poswebsys
  < src/main/java
    < br.edu.ifpr.paranavai.poswebsys
      > PopulacaoInicialBanco.java
      > PoswebsysApplication.java
    < br.edu.ifpr.paranavai.poswebsys.rh.controle
      > PessoaControle.java
    < br.edu.ifpr.paranavai.poswebsys.rh.dominio
      > Pessoa.java
      > PessoaRepository.java
  < src/main/resources
    static
    < templates
      < rh
        > pessoas
    application.properties
> src/test/java
> JRE System Library [JavaSE-1.8]
> Maven Dependencies
> src
> target
  HELP.md
  mvnw
  mvnw.cmd
  pom.xml
> tarefas
```

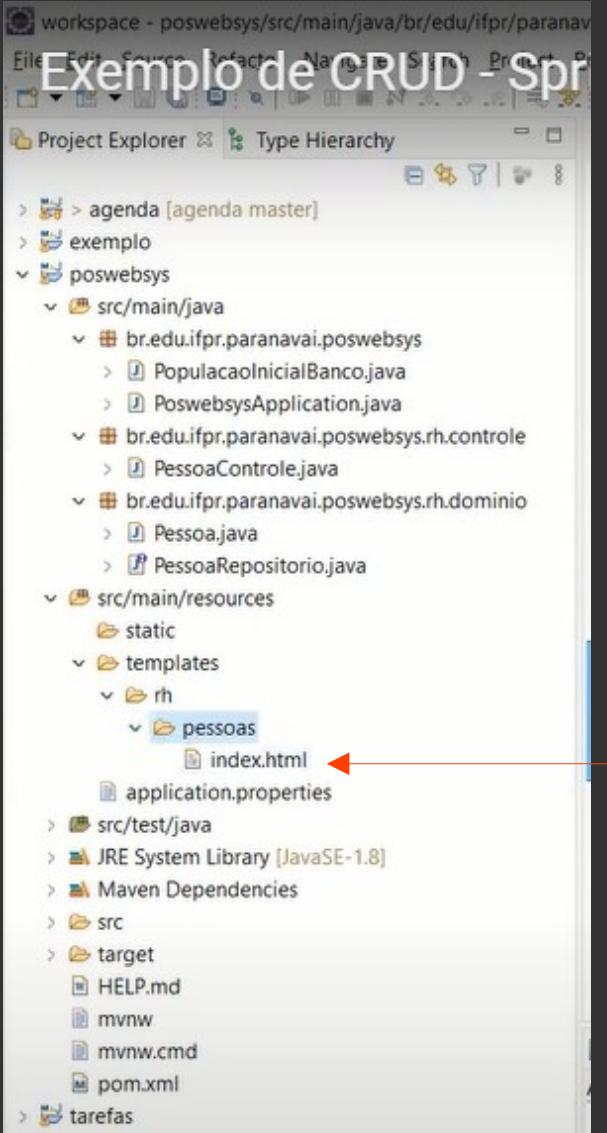
## PessoaControle.java

```
1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org">
3   <head>
4     <meta charset="UTF-8">
5     <title>Sistema de Gestão de Pessoas</title>
6
7     <link rel="stylesheet"
8       href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
9       integrity="sha384-JcK8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGmn5t9UJ0Z"
10      crossorigin="anonymous">
11
12   </head>
13   <body>
14     <div class="container my-2">
15       <a th:href="@{/rh/pessoas/nova}" class="btn btn-primary btn-sm mb-3">Incluir Pessoa</a>
16       <h1>Pessoas</h1>
17       <table border="1" class="table table-striped table-responsive-md">
18         <thead>
19           <tr>
20             <th>Nome</th>
21             <th>Telefone</th>
22             <th>Email</th>
23             <th>Ações</th>
24           </tr>
25         </thead>
26         <tbody>
27           <tr th:each="pessoa : ${listaPessoas}">
28             <td th:text="${pessoa.nome}"></td>
29             <td th:text="${pessoa.telefone}"></td>
30             <td>
31               <a href="#">Detalhar</a>
32               <a href="#">Editar</a>
33               <a href="#">Excluir</a>
34             </td>
35           </tr>
36         </tbody>
37       </table>
38     </div>
39   </body>
40 </html>
```

Markers Properties Servers Data Source Explorer Snippets Console Progress Terminal

Angular Language Server (org.eclipse.lsp4e.LanguageServerWrapper@643d807d)

[Info] Log file: undefined



**Como no meu não apareceu a mesma pasta deixei no lugar que achei que era  
Mas se der erro veja o original  
Meu grilo foi com a pasta web**

# Conteúdo do arquivo index.html

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/resources/templates/rh/pessoas/index.html - Spring Tool Suite 4

File Edit Source Navigate Search Project Run Window Help

Package Explore X

demo [boot] [devtools]

- src/main/java
- src/main/resources
  - static
  - templates
    - rh
      - pessoas
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
  - target
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml

Boot Dashboard X

Pessoa.java PessoaRepository.java PopulacaoInicialBanco.java PessoaControle.java README.md \*index.html X

```
1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org" xmlns:sec="http://www.thymeleaf.org/extras/spring-security">
3
4 <head>
5     <meta charset="UTF-8" />
6     <title>Sistema de Gestão de Pessoas</title>
7
8     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
9           integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwpSp3yD65VohhpucO0mLASjC" crossorigin="anonymous">
10
11 <!--/* <th:block th:include="fragments/geral.html :: headerfiles">
12 </th:block> */-->
13
14 </head>
15
16 <body>
17     <header th:insert="fragments/geral.html :: header"> </header>
18
19 <div class="container my-2">
20     <a th:href="@{/rh/pessoas/nova}" class="btn btn-primary btn-sm mb-3">Incluir Pessoa</a>
21     <h1>Pessoas</h1>
22     <table border="1" class="table table-striped table-responsive-md">
23         <thead>
24             <tr>
25                 <th>Nome</th>
26                 <th>Telefone</th>
27                 <th>Email</th>
28                 <th>Departamento</th>
29                 <th>Ações</th>|
```

Outline X

- html
  - head
    - meta
    - title
    - link
  - body
    - header
    - div.cont
      - a.btn
      - h1
      - table
        - th
      - nav

```
28
29             <th>Ações</th>
30         </tr>
31     </thead>
32     <tbody>
33         <tr th:each="pessoa : ${listaPessoas.content}">
34             <td th:text="${pessoa.nome}"></td>
35             <td th:text="${pessoa.telefone}"></td>
36             <td th:text="${pessoa.email}"></td>
37             <td th:text="${pessoa.departamento}"></td>
38             <td>
39                 <a th:href="@{/rh/pessoas/{id}(id=${pessoa.id})}" class="btn btn-primary">Alterar</a>
40                 <a th:href="@{/rh/pessoas/excluir/{id}(id=${pessoa.id})}" class="btn btn-danger">Excluir</a>
41             </td>
42         </tr>
43     </tbody>
44 </table>
45 <nav aria-label="...">
46     <ul class="pagination">
47         <li th:if="${listaPessoas.totalPages > 0}" th:each="numeroPagina : ${numerosPaginas}">
48             th:class="${numeroPagina==listaPessoas.number + 1} ? 'page-item active' : 'page-item'">
49             <a class="page-link" th:href="@{/rh/pessoas(size=${listaPessoas.size}, page=${numeroPagina})}">
50                 th:text=${numeroPagina}</a>
51         </li>
52     </ul>
53 </nav>
54 </div>
55 </body>
56
57 </html>
```

# Exemplo de CRUD - Spring Boot + Thymeleaf

Project Explorer   Type Hierarchy

```

1 <!DOCTYPE html>
2 <html xmlns:th="http://www.thymeleaf.org">
3 <head>
4   <meta charset="UTF-8">
5   <title>Sistema de Gestão de Pessoas</title>
6
7   <link rel="stylesheet"
8     href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
9     integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGmn5t9UJ0Z"
10    crossorigin="anonymous">
11
12 </head>
13 <body>
14   <div class="container my-2">
15     <a th:href="@{/rh/pessoas/nova}" class="btn btn-primary btn-sm mb-3">Incluir Pessoa</a>
16     <h1>Pessoas</h1>
17     <table border="1" class="table table-striped table-responsive-md">
18       <thead>
19         <tr>
20           <th>Nome</th>
21           <th>Telefone</th>
22           <th>Email</th>
23           <th>Ações</th>
24         </tr>
25       </thead>
26       <tbody>
27         <tr th:each="pessoa : ${listaPessoas}">
28           <td th:text="${pessoa.nome}"></td>
29           <td th:text="${pessoa.telefone}"></td>
30         </tr>
31       </tbody>
32     </table>
33   </div>
34 </body>
35 </html>

```

Markers Properties Servers Data Source Explorer Snippets Console Progress Terminal

Angular Language Server (org.eclipse.lsp4e.LanguageServerWrapper@643d807d)

[Info] Log file: undefined

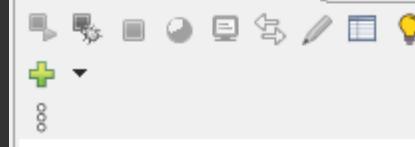
No original



## Package Explorer X

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaolnicialBanc
    - com.example.demo.rh.c
    - com.example.demo.rh.d
  - src/main/resources
    - static
    - templates
      - rh
        - pessoas
          - index.html
  - src/test/java
  - JRE System Library [JavaSE-1.8]
  - Maven Dependencies
  - src
  - target
  - HELP.md

## Boot Dashboard X



New &gt;

Open F3

Open With &gt;

Open Type Hierarchy F4

Show In Alt+Shift+W &gt;

Show in Local Terminal &gt;

Copy Ctrl+C

Copy Qualified Name

Paste Ctrl+V

Delete Delete

Build Path &gt;

Source Alt+Shift+S &gt;

Refactor Alt+Shift+T &gt;

Import... &gt;

Export... &gt;

References &gt;

Declarations &gt;

Refresh F5

Assign Working Sets... &gt;

Run As &gt;

Debug As &gt;

Profile As &gt;

jav &gt;

PopulacaolnicialBanc

PessoaControle.java

es&lt;/th&gt;

="pessoa : \${listaPessoas.content}"&gt;

text="\${pessoa.nome}"&gt;&lt;/td&gt;

text="\${pessoa.telefone}"&gt;&lt;/td&gt;

text="\${pessoa.email}"&gt;&lt;/td&gt;

text="\${pessoa.departamento}"&gt;&lt;/td&gt;

th:href="@{/rh/pessoas/{id}}(id=\${pessoa.id})}" cl

th:href="@{/rh/pessoas/excluir/{id}}(id=\${pessoa.id})"

1 Run on Server Alt+Shift+X, R

2 Java Application Alt+Shift+X, J

3 Java Application In Container

m2 4 Maven build Alt+Shift+X, M

m2 5 Maven build...

m2 6 Maven clean

m2 7 Maven generate-sources

m2 8 Maven install

m2 9 Maven test

Spring Boot App Alt+Shift+X, B

Run Configurations...

Console X

A screenshot of a web browser window with a dark theme. The address bar shows the URL `localhost:8080`. The page content is a "Whitelabel Error Page". It displays the following text:

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Thu Jan 19 18:01:31 BRT 2023  
There was an unexpected error (type=Not Found, status=404).  
No message available

workspace-spring-tool-suite-4-4.17.1.RELEASE - demo/src/main/java/com/example/demo/DemoApplication.java - Spring Tool Suite 4

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

demo [boot] [devtools]

- src/main/java
  - com.example.demo
    - DemoApplication.java
    - PopulacaolnicialBanco.java
  - com.example.demo.rh.controle
  - com.example.demo.rh.dominio
- src/main/resources
  - static
  - templates
    - rh
      - pessoas
        - index.html
  - REDME.md
  - application.properties
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
- target
- Local m2

Boot Dashboard X

Type tags, projects, or working set names to manage

local

- demo [devtools]

Pessoa.java PessoaRepositor PessoaControle. README.md index.html DemoApplication X

```
1 package com.example.demo;
2
3+ import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
```

Problems Javadoc Declaration Console X

DemoApplication [Java Application] C:\Users\brito\Downloads\spring\sts-4.17.1.RELEASE\plugins\org.eclipse.justj.openjdk.jre.full.win32.x86\_64\_17.0.5.v20221102-0933\jre\

Spring Boot :: (v3.0.1)

```
2023-01-19T18:00:58.245-03:00 INFO 9588 --- [ restartedMain] com.example.demo.DemoApplication : Starting DemoApplication using Java SE-17
2023-01-19T18:00:58.256-03:00 INFO 9588 --- [ restartedMain] com.example.demo.DemoApplication : No active profile set, falling back to default profiles: dev
2023-01-19T18:00:58.505-03:00 INFO 9588 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults activated
2023-01-19T18:00:58.505-03:00 INFO 9588 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logs, increase log level in application.properties
2023-01-19T18:01:01.042-03:00 INFO 9588 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-01-19T18:01:01.183-03:00 INFO 9588 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository configuration
2023-01-19T18:01:03.570-03:00 INFO 9588 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s) 8080
2023-01-19T18:01:03.620-03:00 INFO 9588 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-01-19T18:01:03.620-03:00 INFO 9588 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.64]
2023-01-19T18:01:03.867-03:00 INFO 9588 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-01-19T18:01:03.875-03:00 INFO 9588 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialized at [2023-01-19T18:01:03.875-03:00]
2023-01-19T18:01:03.964-03:00 INFO 9588 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-01-19T18:01:04.468-03:00 INFO 9588 --- [ restartedMain] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection [ConnectionId: 1]
2023-01-19T18:01:04.472-03:00 INFO 9588 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start complete
2023-01-19T18:01:04.492-03:00 INFO 9588 --- [ restartedMain] o.s.b.a.h2.H2ConsoleAutoConfiguration : H2 console available at '/h2-console'
2023-01-19T18:01:05.004-03:00 INFO 9588 --- [ restartedMain] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo
2023-01-19T18:01:05.300-03:00 INFO 9588 --- [ restartedMain] org.hibernate.Version : HHH000412: Hibernate ORM core
2023-01-19T18:01:05.696-03:00 WARN 9588 --- [ restartedMain] org.hibernate.orm.deprecation : HHH90000021: Encountered deprecation warning
2023-01-19T18:01:06.175-03:00 INFO 9588 --- [ restartedMain] SQL dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQL5InnoDBDialect
```

Hibernate:

**Package Explorer X**

- demo [boot] [devtools]
  - src/main/java
    - com.example.demo
      - DemoApplication.java
      - PopulacaolnicialBanco.java
    - com.example.demo.rh.control
      - com.example.demo.rh.dominio
  - src/main/resources
    - static
    - templates
      - rh
        - pessoas
          - index.html
    - REDME.md
    - application.properties
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- src
- target
- HELP.md

**Boot Dashboard X**

Type tags, projects, or working set names to manage

local

- demo [devtools]

Pessoa.java PessoaRepository PessoaControle... README.md index.html DemoApplication X

```

1 package com.example.demo;
2
3 import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
6 
```

Problems Javadoc Declaration Console X

DemoApplication [Java Application] C:\Users\brito\Downloads\spring\sts-4.17.1.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.5.v20221102-0933\

```

2023-01-19T18:01:07.791-03:00 INFO 9588 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatformInitiator
2023-01-19T18:01:07.809-03:00 INFO 9588 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'entityManagerFactory'
2023-01-19T18:01:08.627-03:00 WARN 9588 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during a view's rendering. Explicitly call enableAutoFlush(false) on EntityManagerFactory to disable.
2023-01-19T18:01:09.567-03:00 INFO 9588 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port(s): 3571
2023-01-19T18:01:09.716-03:00 INFO 9588 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080
2023-01-19T18:01:09.742-03:00 INFO 9588 --- [ restartedMain] com.example.demo.DemoApplication : Started DemoApplication in 0.199 seconds (JVM: 0.200s)
Hibernate:
    select
        next value for pessoa_seq
Hibernate:
    select
        next value for pessoa_seq
Hibernate:
    insert
    into
        pessoa
        (cpf, data_nascimento, email, nome, telefone, id)
    values
        (?, ?, ?, ?, ?, ?)
Hibernate:
    insert
    into
        pessoa
        (cpf, data_nascimento, email, nome, telefone, id)
    values
        (?, ?, ?, ?, ?, ?)
2023-01-19T18:01:31.079-03:00 INFO 9588 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet
2023-01-19T18:01:31.080-03:00 INFO 9588 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : : Initializing Servlet 'dispatcherServlet'

```







