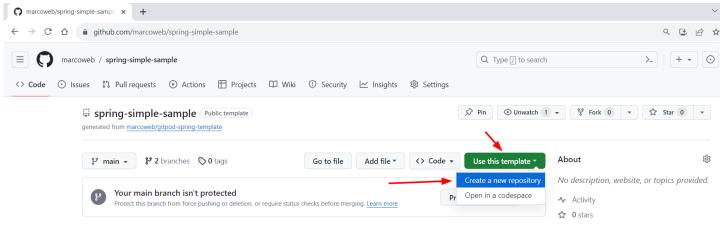
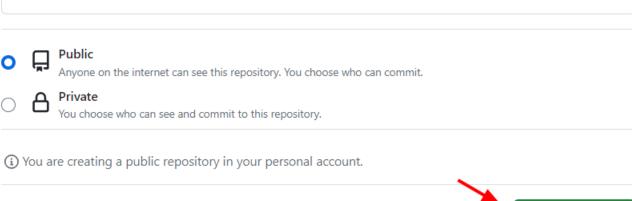
Autenticação Simples utilizando o Spring Security

Crie uma nova aplicação com base no modelo https://github.com/marcoweb/spring-simple-sample:

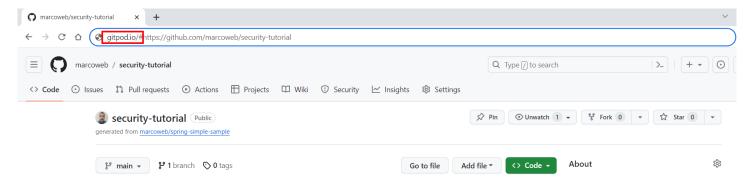


Nomeie o repositório à ser criado: Create a new repository A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository. Required fields are marked with an asterisk (*). Repository template marcoweb/spring-simple-sample Start your repository with a template repository's contents. Include all branches Copy all branches from marcoweb/spring-simple-sample and not just the default branch. Owner * Repository name * security-tutorial marcoweb security-tutorial is available. Great repository names are short and memorable. Need inspiration? How about curly-octo-adventure? Description (optional) Public Anyone on the internet can see this repository. You choose who can commit.



Create repository

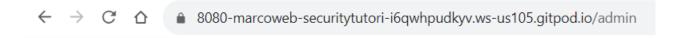
Abra o projeto criado no gitpod:



Teste a aplicação de modelo:



Olá Spring!!!



Admin

Adicionando o Spring Security

Adicione a biblioteca Spring Security no arquivo "build.gradle":

```
app > 2 build.gradle
   1
       plugins {
   2
           id 'java'
   3
           id 'org.springframework.boot' version '3.0.6'
           id 'io.spring.dependency-management' version '1.1.0'
   4
   5
   6
   7
       repositories {
   8
           mavenCentral()
   9
  10
       dependencies {
  11
           implementation 'org.springframework.boot:spring-boot-starter-web'
  12
           implementation 'org.apache.tomcat.embed:tomcat-embed-jasper'
  13
           implementation 'org.springframework.boot:spring-boot-starter-data-jpa:3.1.5'
  14
           implementation 'mysql:mysql-connector-java:8.0.33'
  15
           implementation 'org.springframework.boot:spring-boot-starter-security:3.1.5'
  16
  17
```

Construa a aplicação:

```
gitpod /workspace/security-tutorial (main) $ gradle build
Picked up JAVA_TOOL_OPTIONS: -Xmx3489m

BUILD SUCCESSFUL in 6s
5 actionable tasks: 2 executed, 3 up-to-date
```

Execute a aplicação:

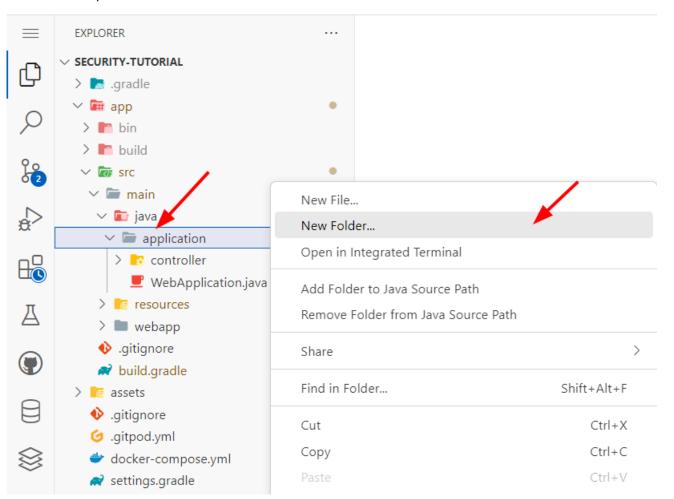
gitpod /workspace/security-tutorial (main) \$ gradle bootRun

Observe que a aplicação já possui segurança:

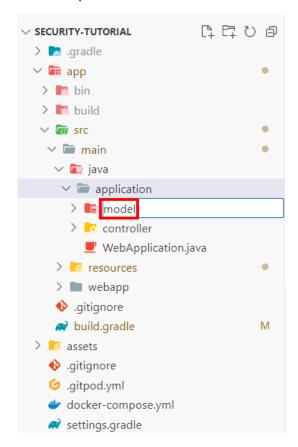


Criando o Modelo de Dados de Usuários

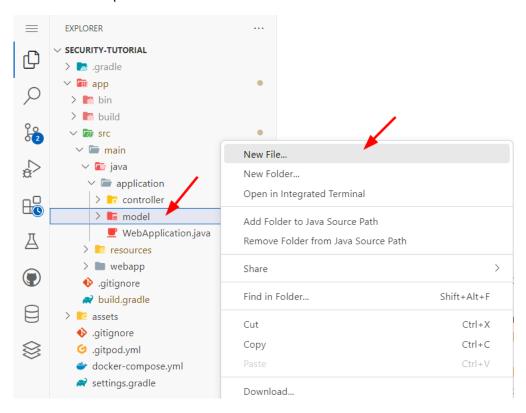
Crie uma nova pasta:



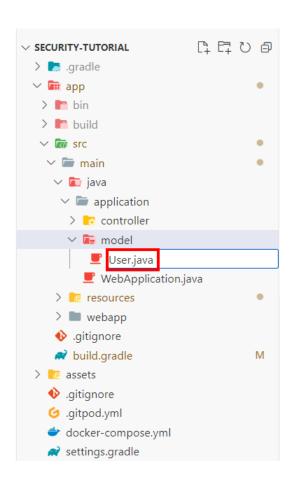
Nomeie a pasta criada como "model":



Crie um novo arquivo:



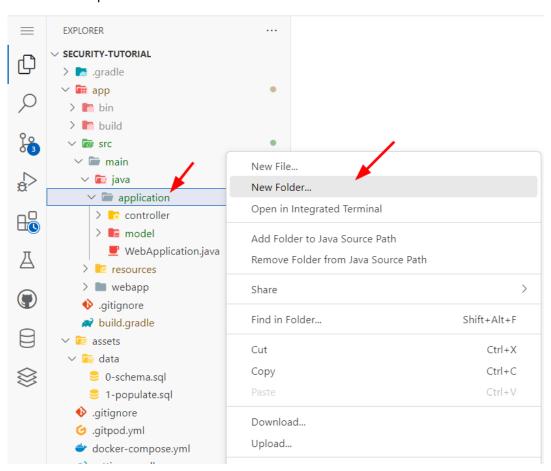
Nomeie o arquivo criado como "User":



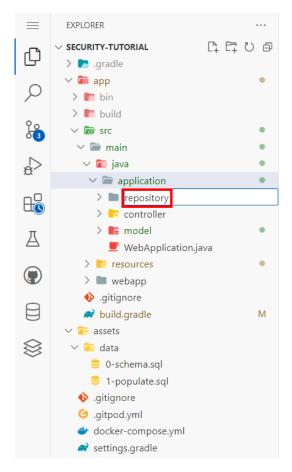
Insira o conteúdo da listagem a seguir ao arquivo criado:

```
app > src > main > java > application > model > ■ User.java > ...
  1
       package application.model;
  2
  3
       import jakarta.persistence.Entity;
       import jakarta.persistence.GeneratedValue;
  4
       import jakarta.persistence.GenerationType;
  5
       import jakarta.persistence.Id;
  6
  7
       import jakarta.persistence.Table;
  8
  9
       @Entity
       @Table(name = "users")
 10
       public class User {
 11
 12
           @Id
           @GeneratedValue(strategy = GenerationType.IDENTITY)
 13
           private long id;
 14
           private String username;
 15
           private String password;
 16
 17
           public long getId() {
 18
               return id;
 19
 20
           public void setId(long id) {
 21
 22
               this.id = id;
 23
           public String getUsername() {
 24
               return username;
 25
 26
 27
           public void setUsername(String username) {
               this.username = username;
 28
 29
 30
           public String getPassword() {
               return password;
 31
 32
           public void setPassword(String password) {
 33
               this.password = password;
 34
 35
 36
```

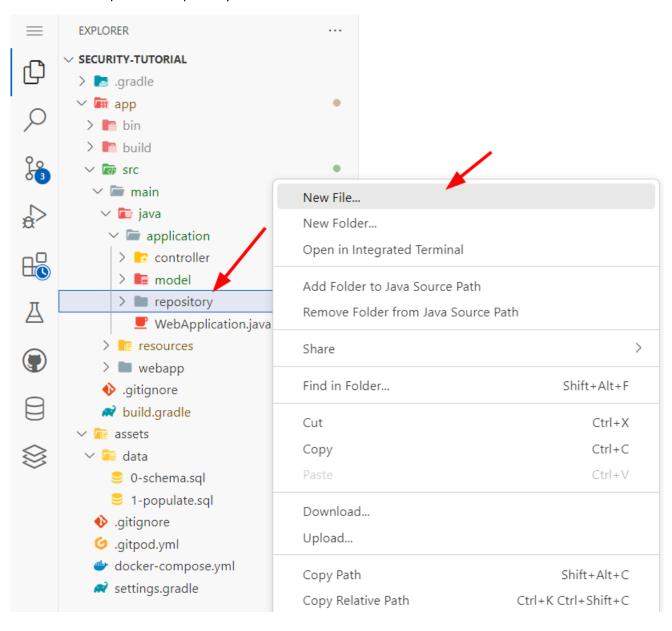
Crie uma nova pasta:



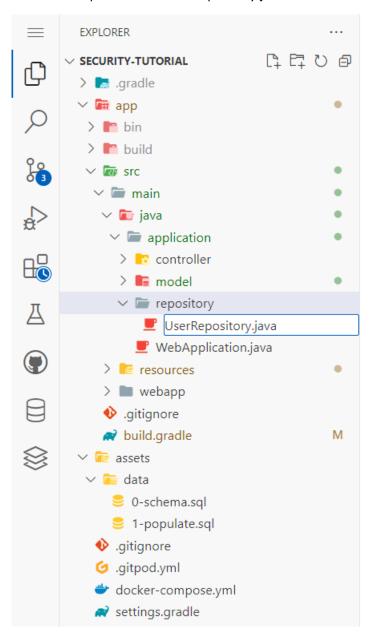
Nomeie a pasta criada como "repository":



Crie um novo arquivo em "repository":



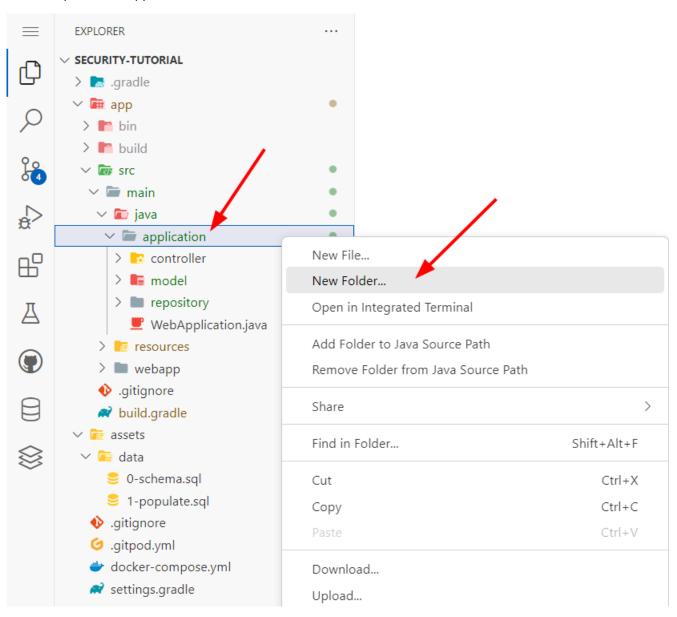
Nomeie o arquivo como "UserRepository.java":



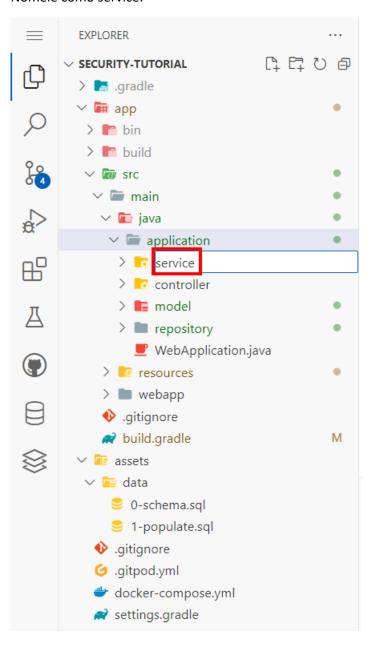
Insira o conteúdo da listagem a seguir ao arquivo criado:

Criando o Serviço

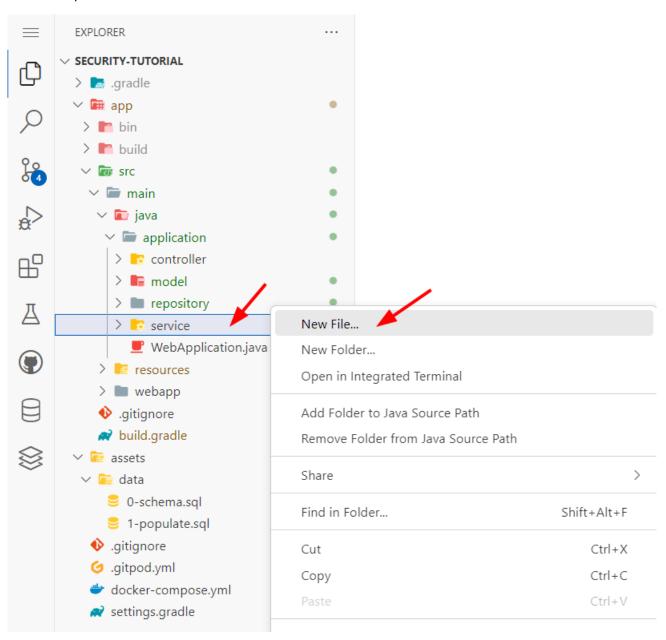
Crie uma pasta em "application":



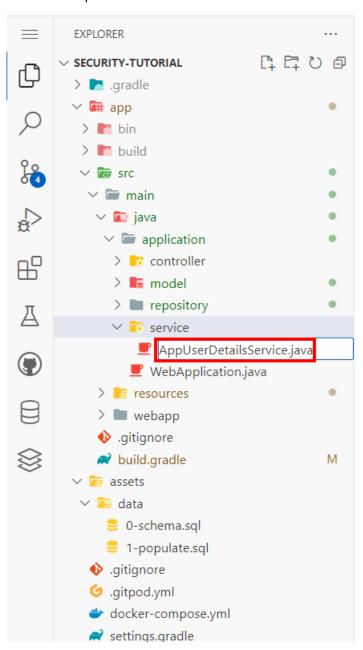
Nomeie como service:



Crie um arquivo em service:



Nomeie o arquivo criado:

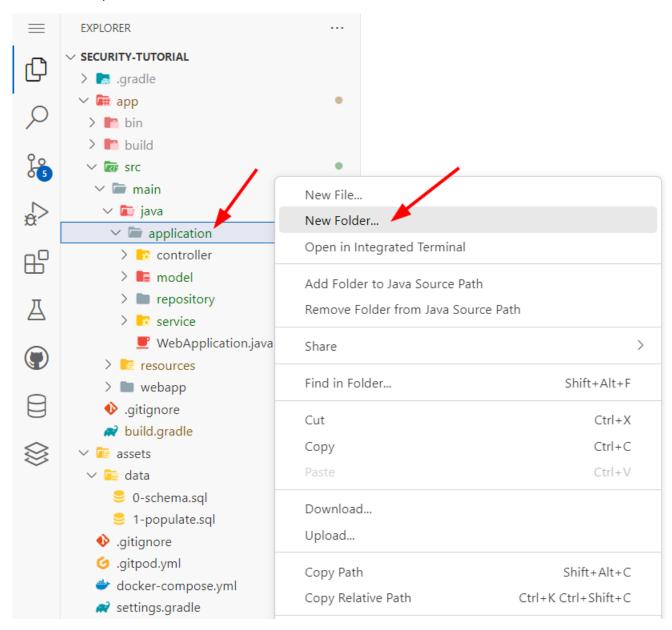


Insira a listagem à seguir ao arquivo criado:

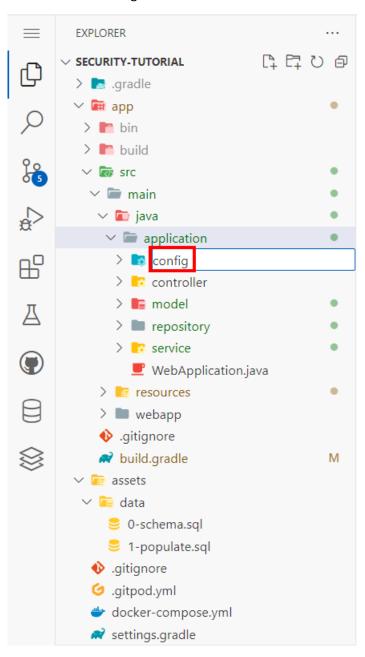
```
app > src > main > java > application > service > ■ AppUserDetailsService.java > ...
  1
       package application.service;
  2
       import org.springframework.beans.factory.annotation.Autowired;
  3
       import org.springframework.security.core.userdetails.UserDetails;
  4
       import org.springframework.security.core.userdetails.UserDetailsService;
  5
  6
       import org.springframework.security.core.userdetails.UsernameNotFoundException;
       import org.springframework.stereotype.Service;
  7
  8
       import application.model.User;
  9
       import application.repository.UserRepository;
 10
 11
       @Service
 12
       public class AppUserDetailsService implements UserDetailsService {
 13
           @Autowired
 14
           private UserRepository userRepo;
 15
 16
 17
           @Override
           public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException {
 18
               User user = userRepo.findByUsername(username);
 19
 20
               if(user == null){
                   throw new UsernameNotFoundException("Usuário Não Encontrado");
 21
 22
               UserDetails userDetails =
 23
                       org.springframework.security.core.userdetails.User.builder()
 24
 25
                                .username(user.getUsername())
                                .password(user.getPassword())
 26
                                .roles("USER")
 27
 28
                                .build();
 29
 30
               return userDetails;
 31
 32
```

Crie a classe de configurações

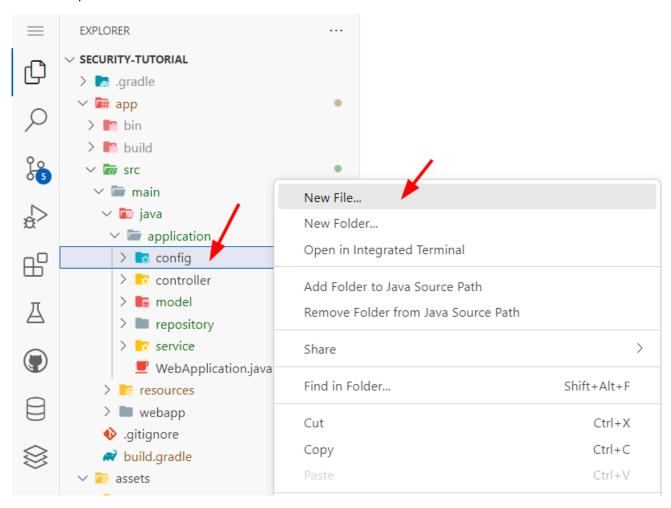
Crie uma nova pasta:



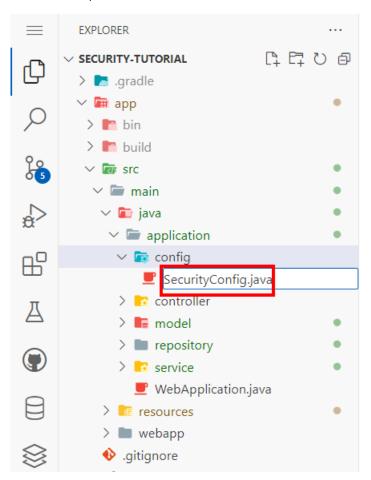
Nomeie como "config":



Crie um arquivo:



Nomeie o arquivo criado:



Insira o conteúdo da listagem a seguir ao arquivo criado:

```
app > src > main > java > application > config > ■ SecurityConfig.java > ...
       package application.config;
  1
  2
  3
       import org.springframework.context.annotation.Bean;
       import org.springframework.context.annotation.Configuration;
  4
  5
       import org.springframework.security.config.annotation.web.builders.HttpSecurity;
       import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
  6
  7
       import org.springframework.security.crypto.password.NoOpPasswordEncoder;
  8
       import org.springframework.security.web.SecurityFilterChain;
  9
 10
       @Configuration
       @EnableWebSecurity
 11
       public class SecurityConfig {
 12
 13
           @Bean
           public SecurityFilterChain securityFilterChain(HttpSecurity http) throws Exception {
 14
 15
                        .csrf().disable()
 16
 17
                        .authorizeHttpRequests()
 18
                        .anyRequest().authenticated();
               http
 19
                        .formLogin();
 20
 21
 22
               return http.build();
 23
 24
           @SuppressWarnings("deprecation")
 25
 26
           @Bean
           public NoOpPasswordEncoder passwordEncoder() {
 27
               return (NoOpPasswordEncoder) NoOpPasswordEncoder.getInstance();
 28
 29
 30
```

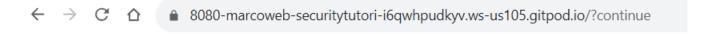
Execute a aplicação:

gitpod /workspace/security-tutorial (main) \$ gradle bootRun

Teste a aplicação com as credenciais a seguir:



Observe o acesso:



Olá Spring!!!

Acesse a rota "/logout" para sair:



Olá Spring!!!

