Disabling CSRF Token

Approaches to Configure Security

Your images show two approaches to configuring security and disabling CSRF:

1. Lambda Way:

 Configuration uses functional programming with lambdas for concise and readable syntax.

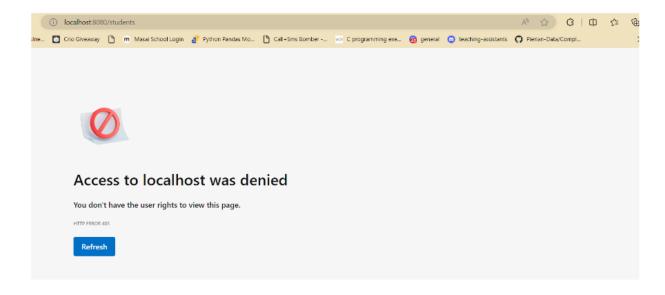
2. Imperative Way:

• Configuration uses traditional imperative-style method calls.

Both achieve the same result but differ in style.

Lambda Way Configuration

Example:



Behavior:

- CSRF Disabled:
 - No CSRF token is required for POST, PUT, or DELETE requests.
- Authentication Required:
 - All endpoints require authentication.
- Output:
 - If accessed without proper credentials, an "Access Denied" error is shown.

Example:

```
@Configuration
@EnableWebSecurity
public class SecurityConfig {

    @Bean
    public SecurityFilterChain securityFilterChain(HttpSecurity http) throws Exception {
        http.csrf(customizer->customizer.disable());
        http.authorizeHttpRequests(request->request.anyRequest().authenticated());
        http.formLogin(Customizer.withDefaults());
        return http.build();
    }
}
```



Behavior:

- CSRF Disabled:
 - Like the lambda approach, CSRF tokens are not needed.
- Form-Based Authentication:
 - Users are prompted with a login form for authentication.
- Output:
 - Upon accessing secured endpoints without credentials, users see a login page instead of "Access Denied."

Stateless Configuration (Sessionless)

Example:

Behavior:

• Stateless Sessions:

- The server does not maintain session information.
- Common for REST APIs, where each request is authenticated independently.

• Output:

 REST APIs become simpler and more compatible with token-based authentication systems like JWT.

Key Takeaways:

1. CSRF Disabled:

- Removing CSRF makes APIs easier to use for stateless services.
- Ensure other forms of authentication (e.g., token-based) are in place.

2. Lambda vs Imperative:

o Both styles work; choose based on readability and team preferences.

3. Stateless Configuration:

- Suitable for REST APIs.
- Requires enabling SessionCreationPolicy.STATELESS to avoid session tracking.

4. Form Login vs Basic Auth:

- Form Login: Preferred for user-facing web applications.
- o Basic Auth: Best for APIs or development/testing.