



Spring Security for h2-console

June 15, 2020

In Spring Boot example apps, H2 is the easiest database to get started with. Its data is in memory or in a local file. When the app is running in development mode, you can access the database at `/h2-console`. It gives you a lovely little SQL admin app.

jdbc:h2:./db

- + CATS
- + CAT_IDENTITIES
- + ENTRIES
- + INFORMATION_SCHEMA
- + Sequences
- + Users
- i H2 1.4.200 (2019-10-14)

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM CATS

SELECT * FROM CATS CATS;

ID	CAT_NAME	LIVES
1	Bootsy	1
3	Pixie	9

(2 rows, 4 ms)

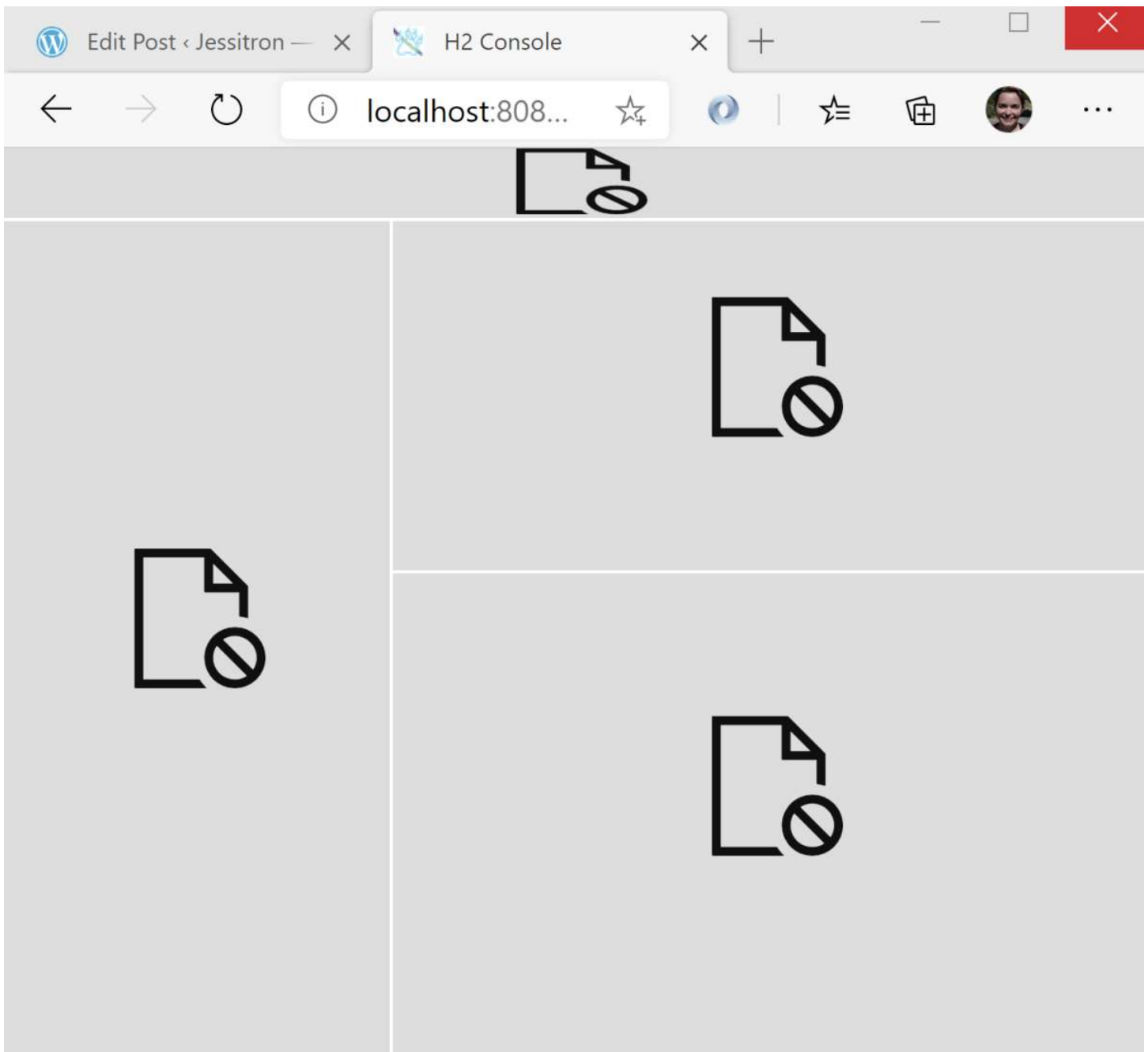
Edit

That is, after you turn it on in `application.properties`:

```
spring.h2.console.enabled=true
```

When you bring in Spring Security, though, that console stops working.

First it's all "Unauthorized!" and then once I get past that, and log in to the console itself, I get four frames of "NOPE."



Here is the spell to make /h2-console work again. Cast it in your security configuration, in your class that extends `WebSecurityConfigurerAdapter`.

```
protected void configure(HttpSecurity http) throws Exception {  
    http.authorizeRequests().antMatchers("/h2-console/**").permitAll()  
        .and().csrf().ignoringAntMatchers("/h2-console/**")  
        .and().headers().frameOptions().sameOrigin();  
    // ... your other configuration  
}
```

This **takes /h2-console out of Spring Security's authorization**, so you don't have to log in to the app before you can log in to the database.

Then it **turns off CSRF only for /h2-console**. **CSRF protection breaks all POSTs until you add the secret formula to each form**. The console doesn't have these, so it is not compatible with CSRF protection.

Then it **enables loading pages in frames as long as the frames come from our own site**. This affects the entire application. (I don't know how to configure the headers for only /h2-console.)

Now the console will work when you're running your app locally, and the rest of your site will be secure as before.

🔖 reference, secure code, spring, sql

< What functional programming and secure code have in common

> I turned on Spring Security and my POSTs don't work anymore

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