Spring Security - Custom Login Form

Spring Security - Default Login Form

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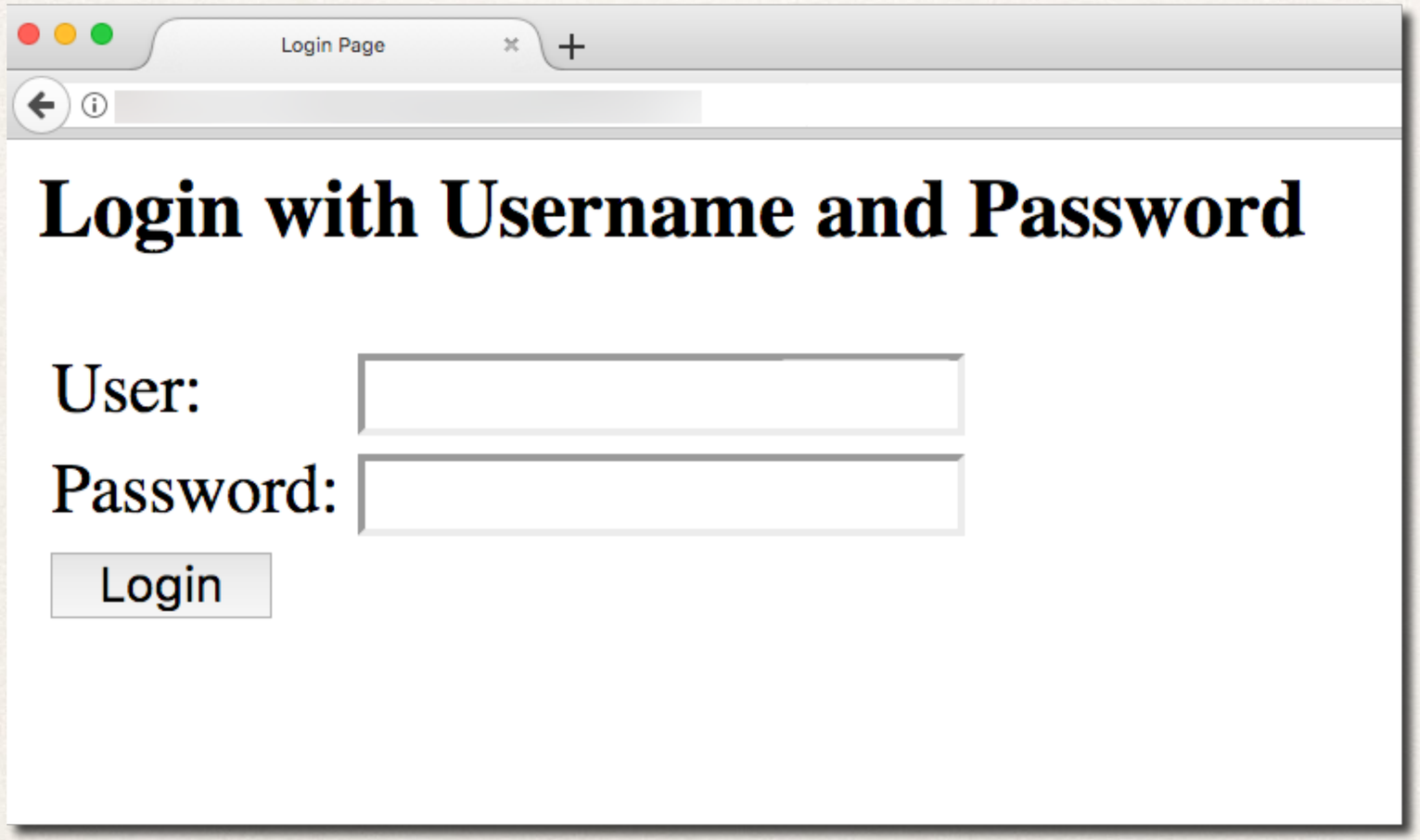

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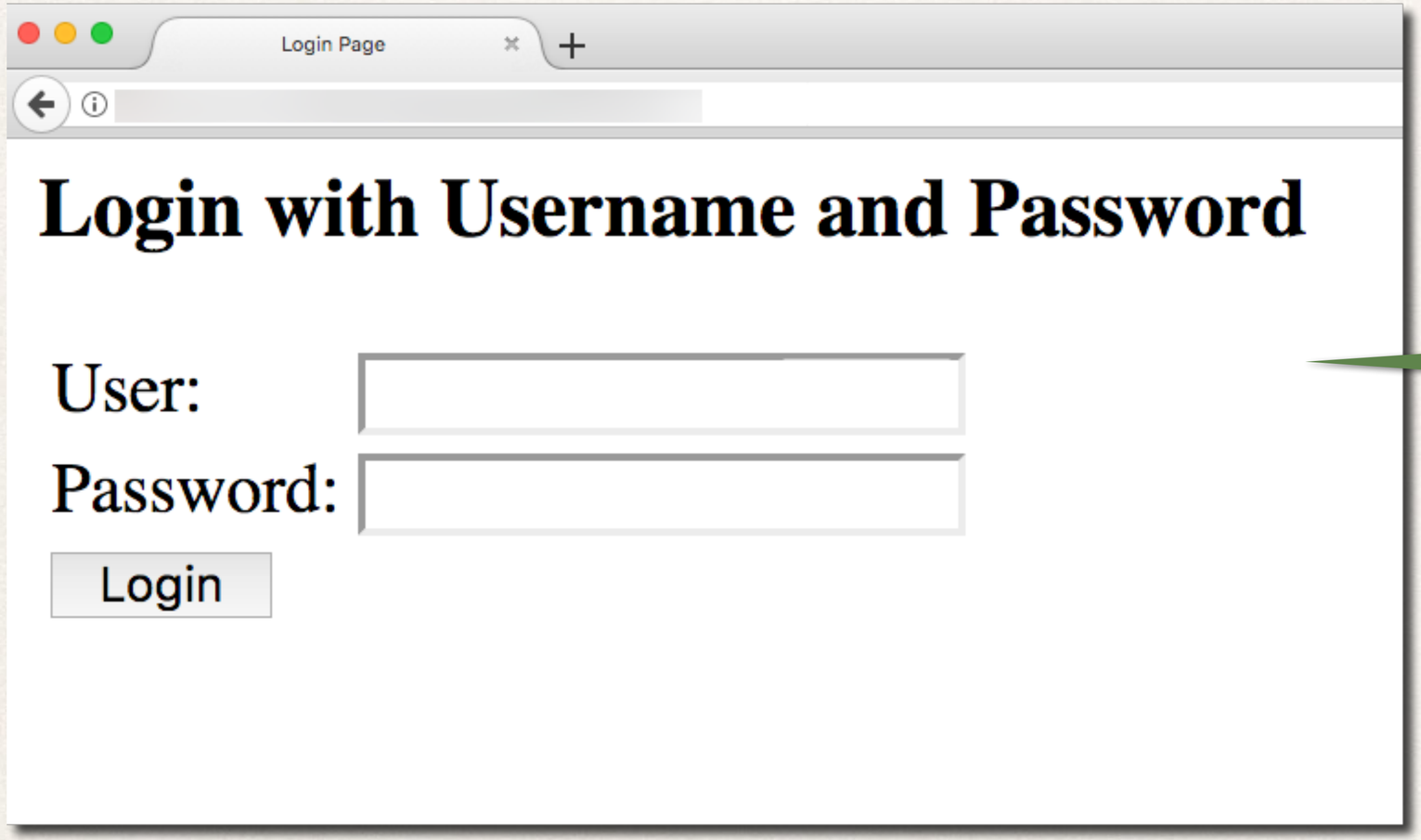

Good for quick start

Your Own Custom Login Form

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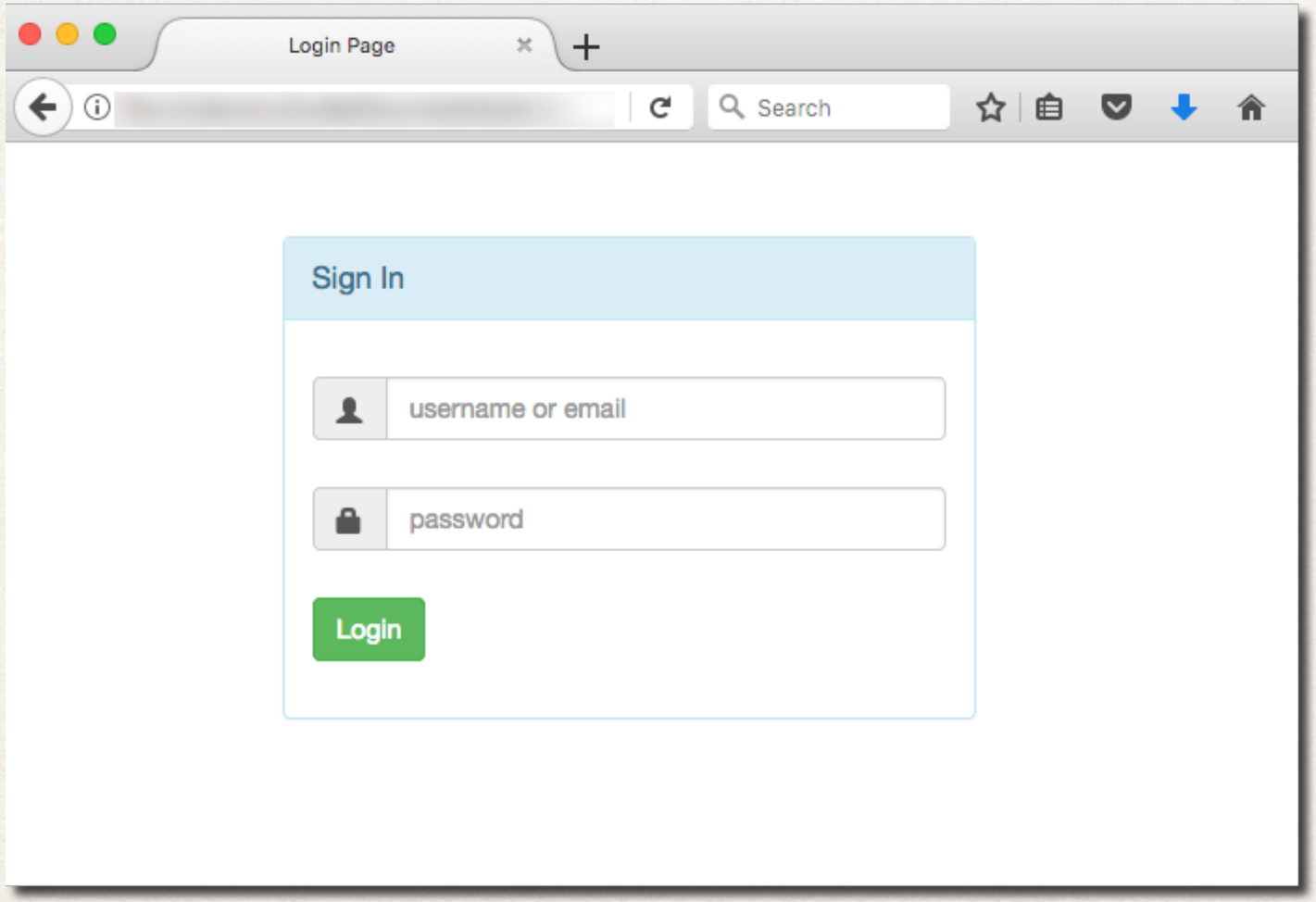

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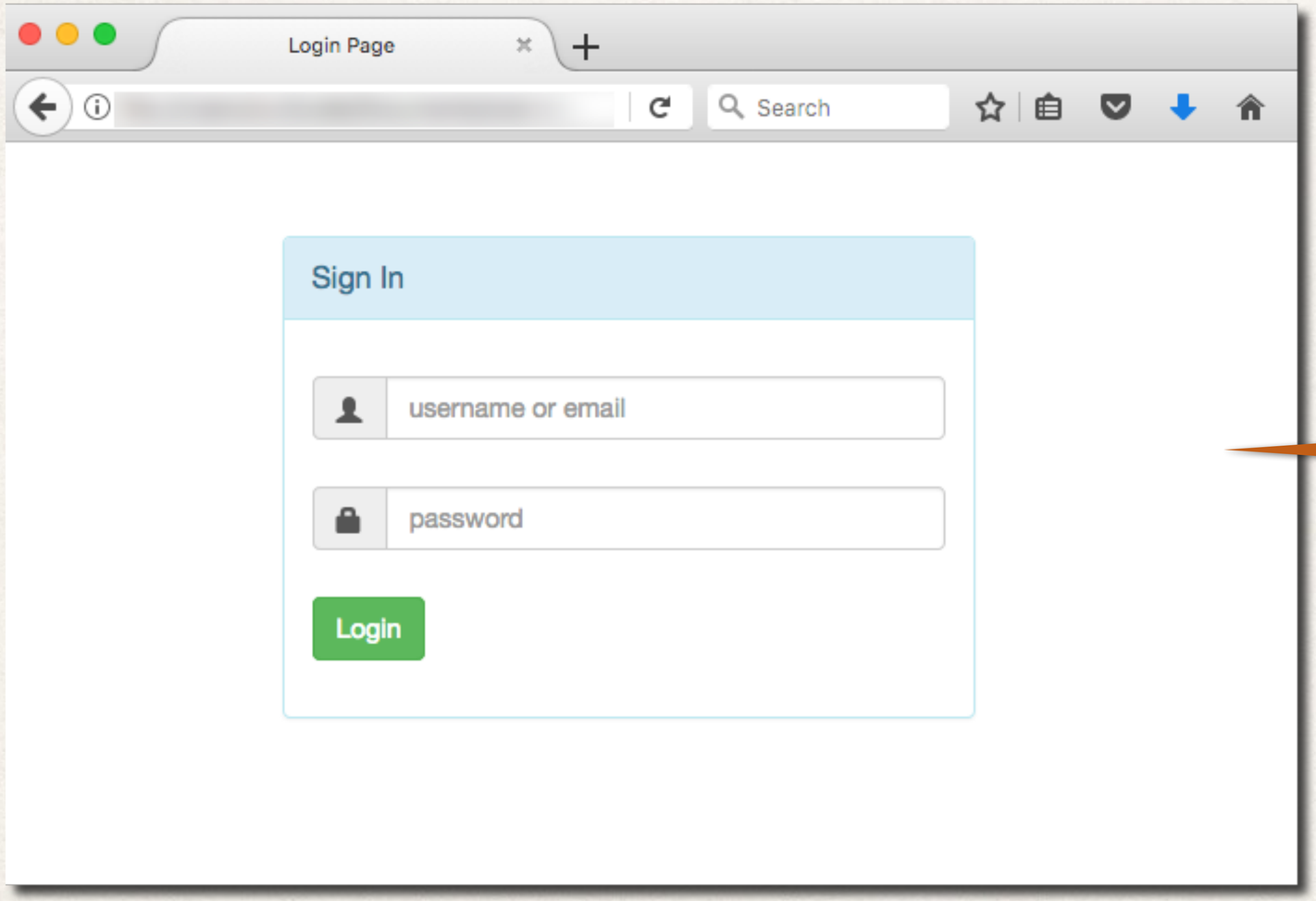

Your own custom look-and-feel HTML + CSS

Spring Security Overview

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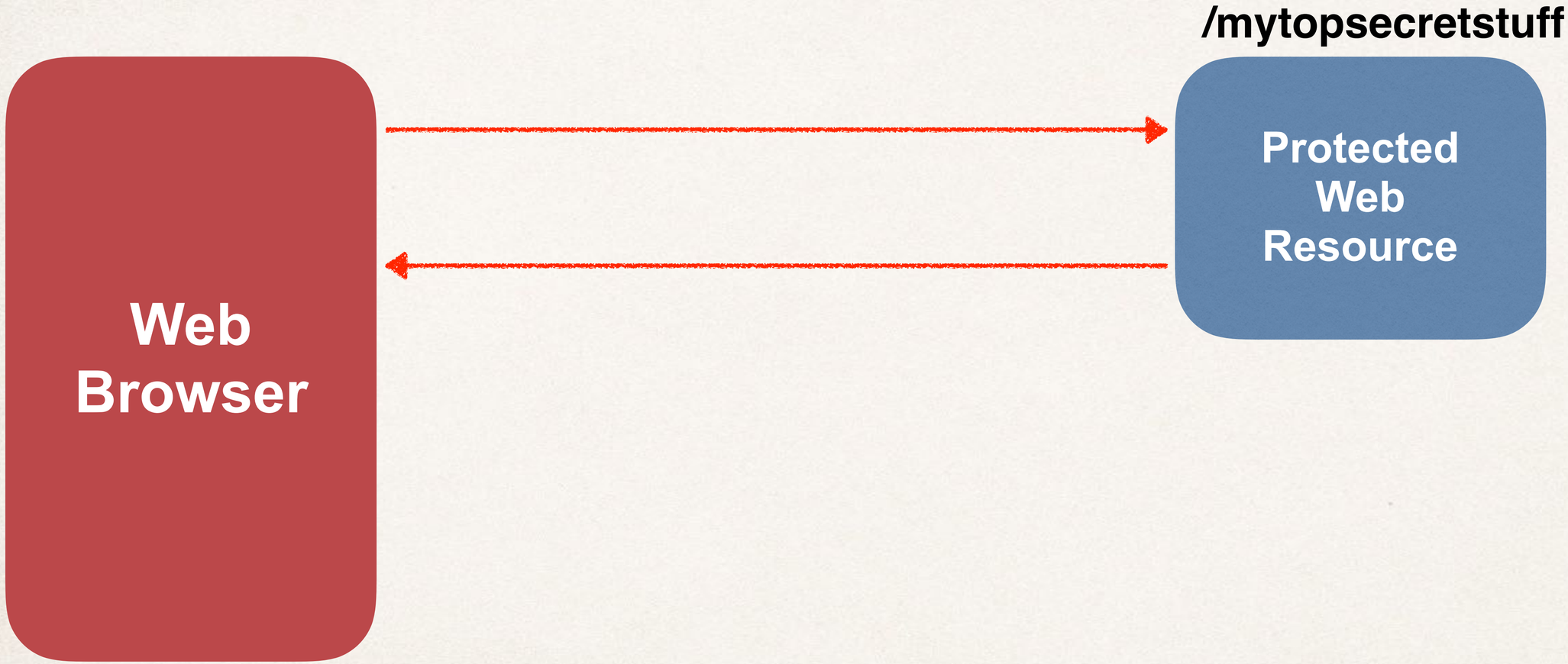

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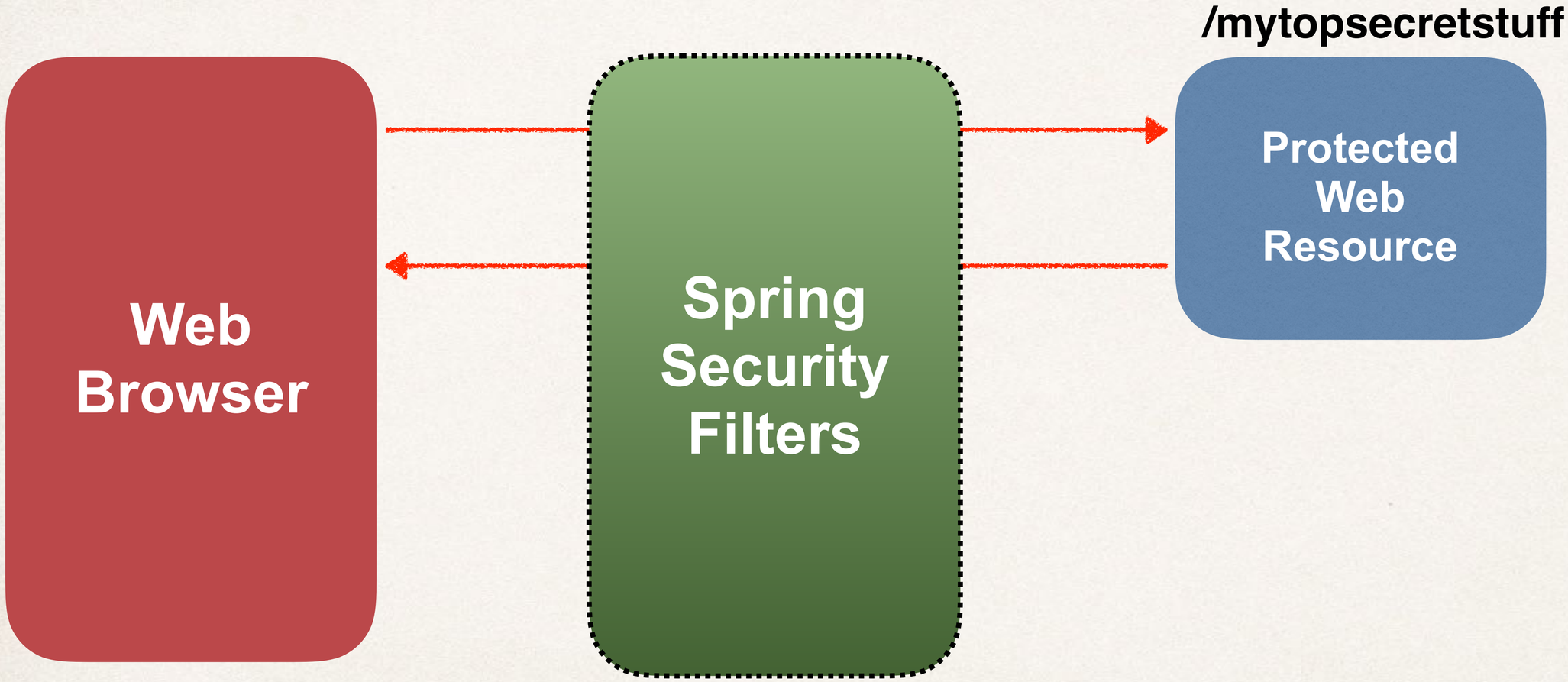

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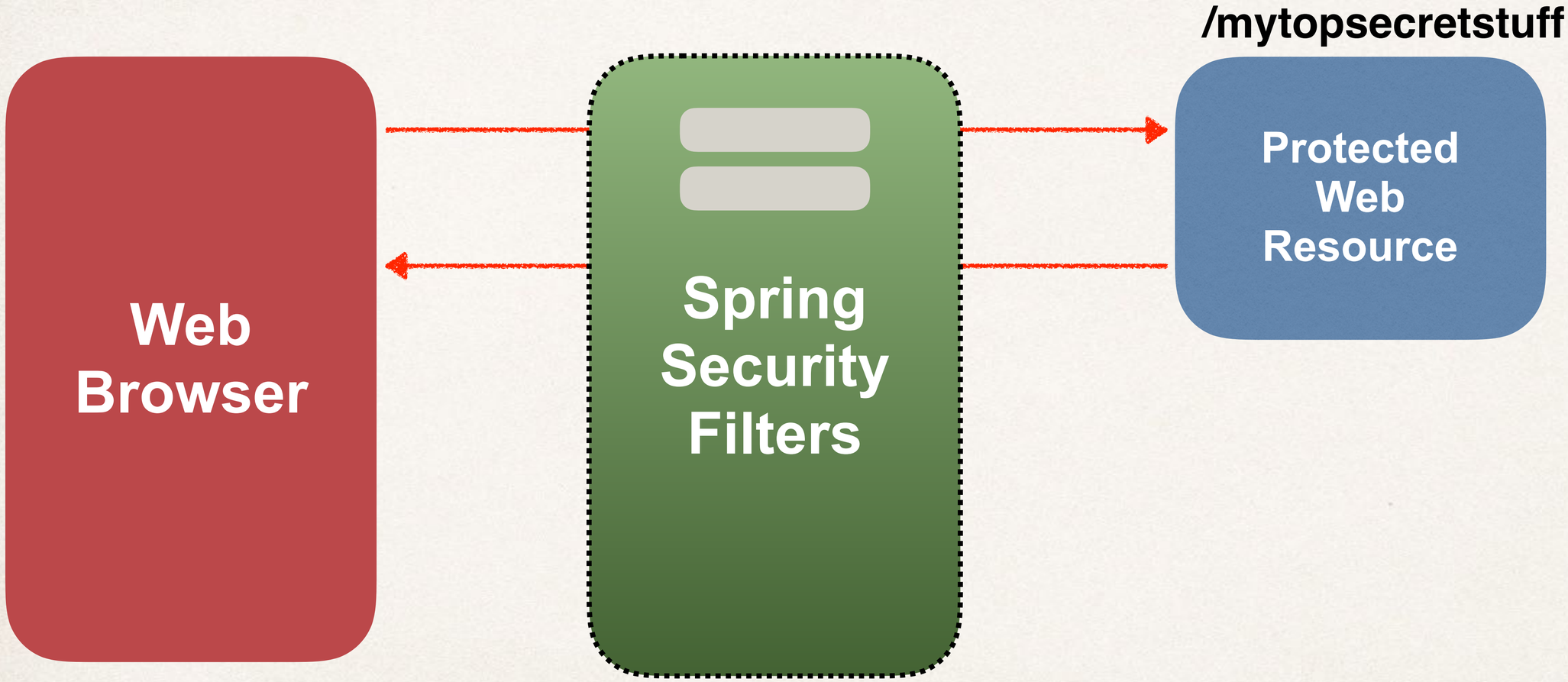

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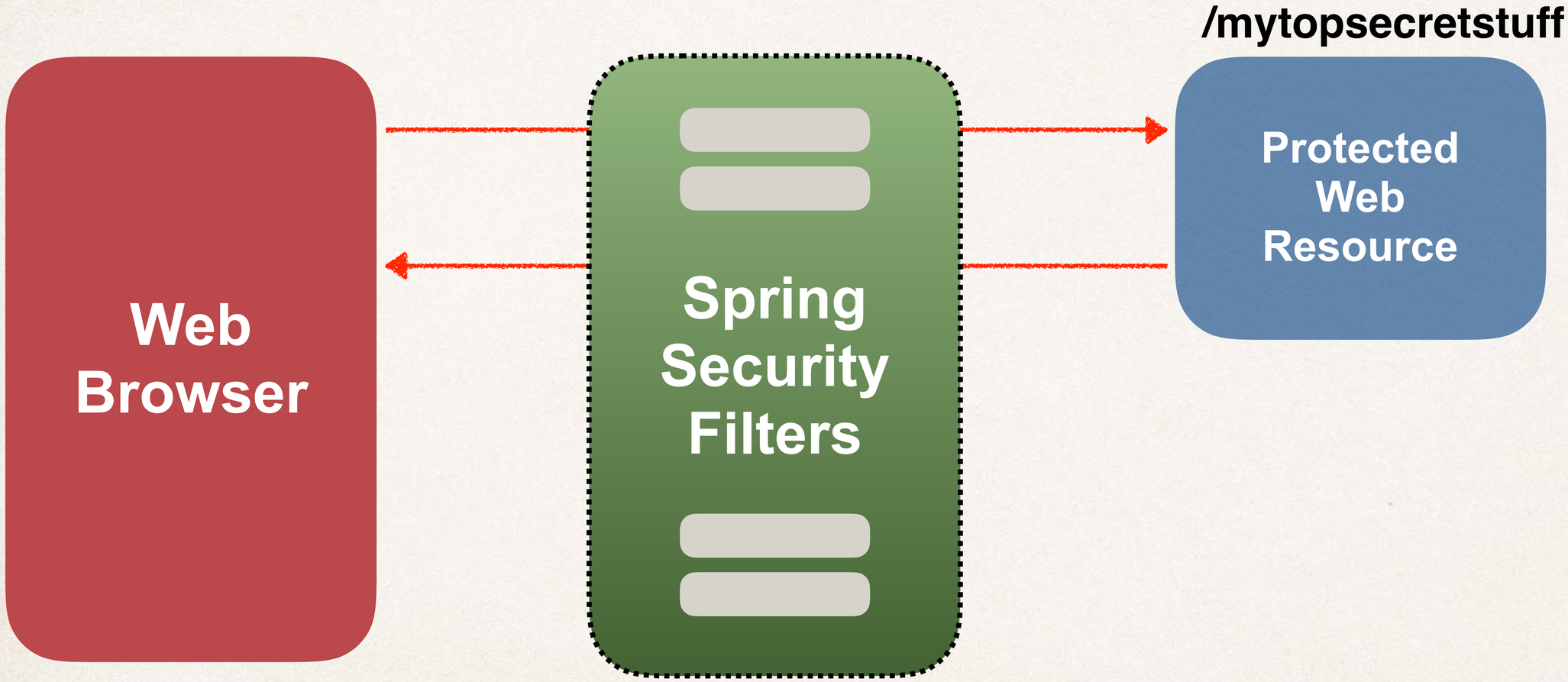

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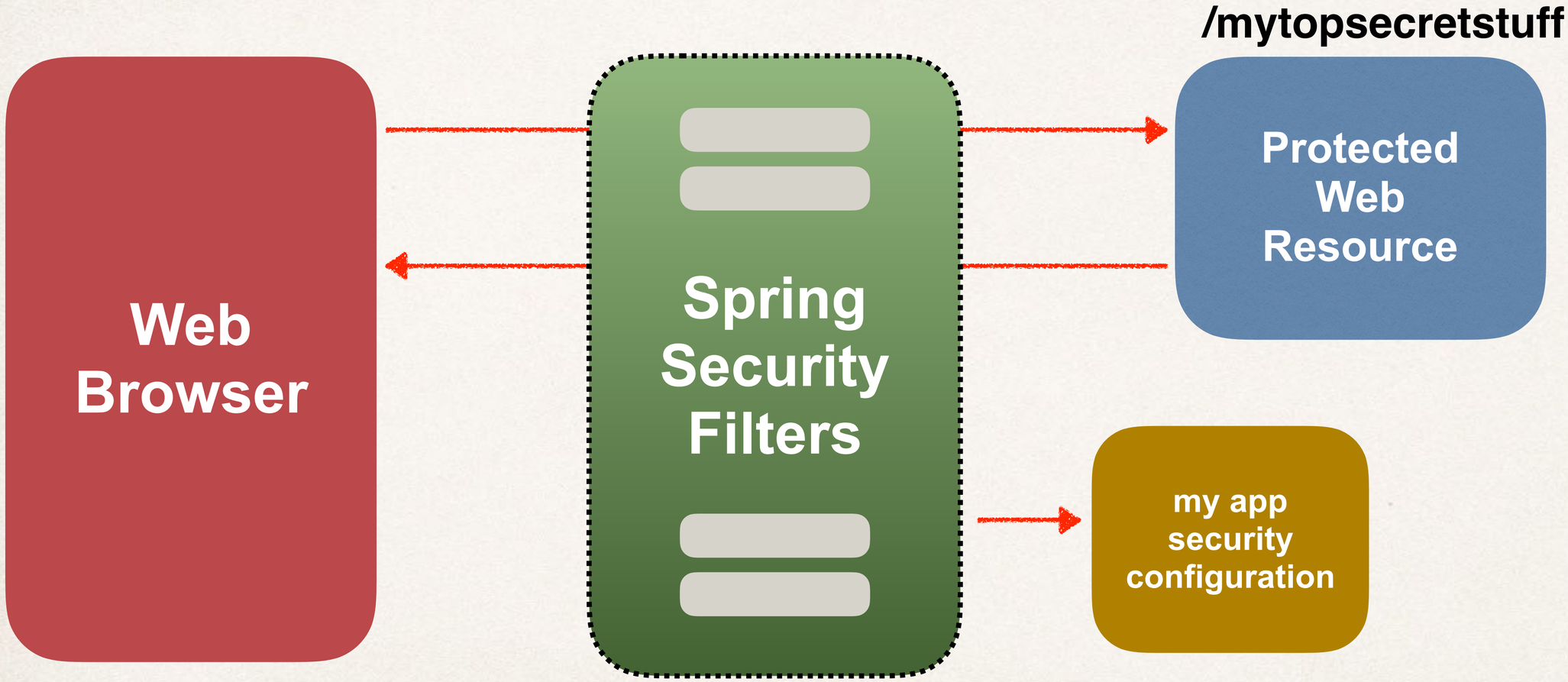

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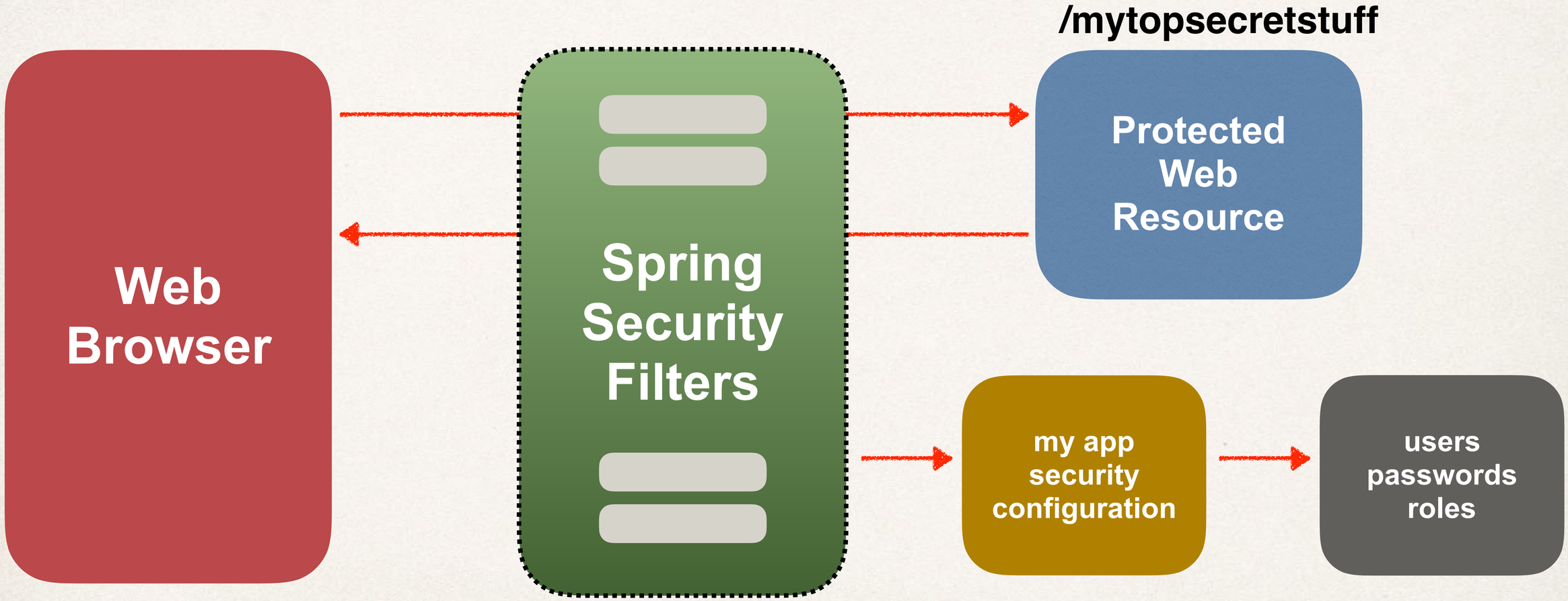

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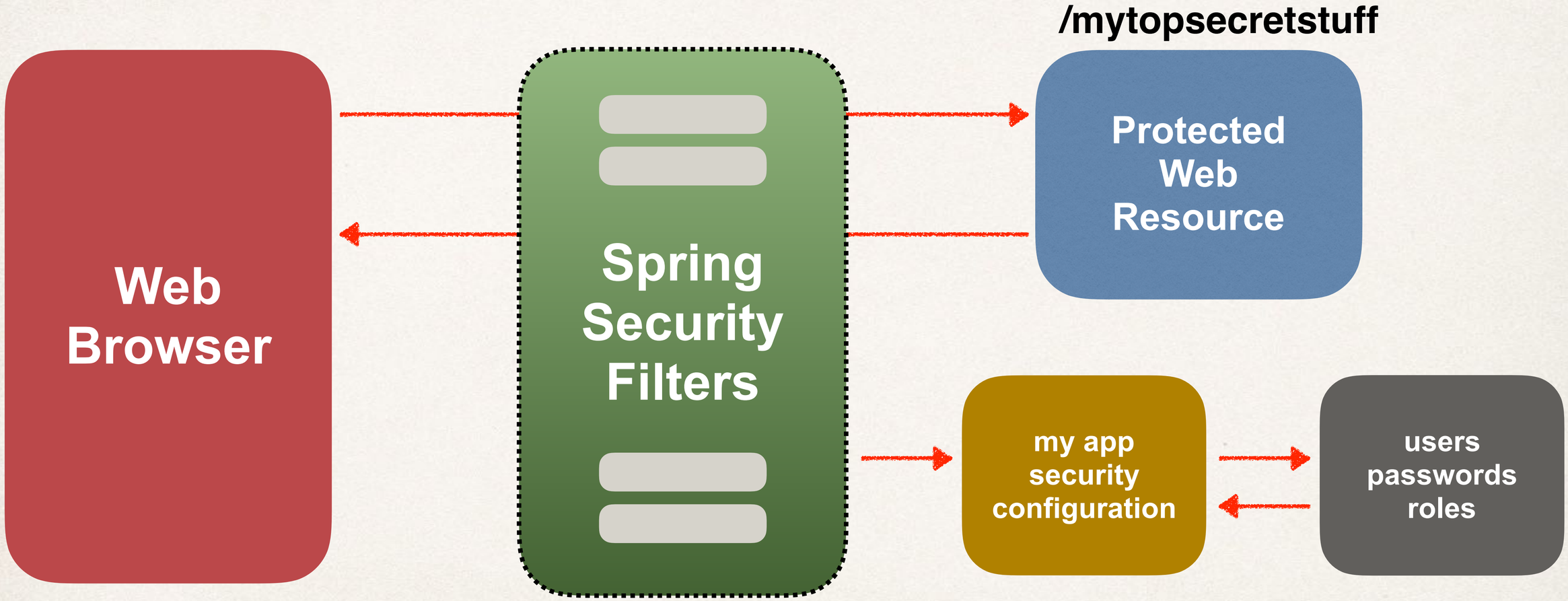

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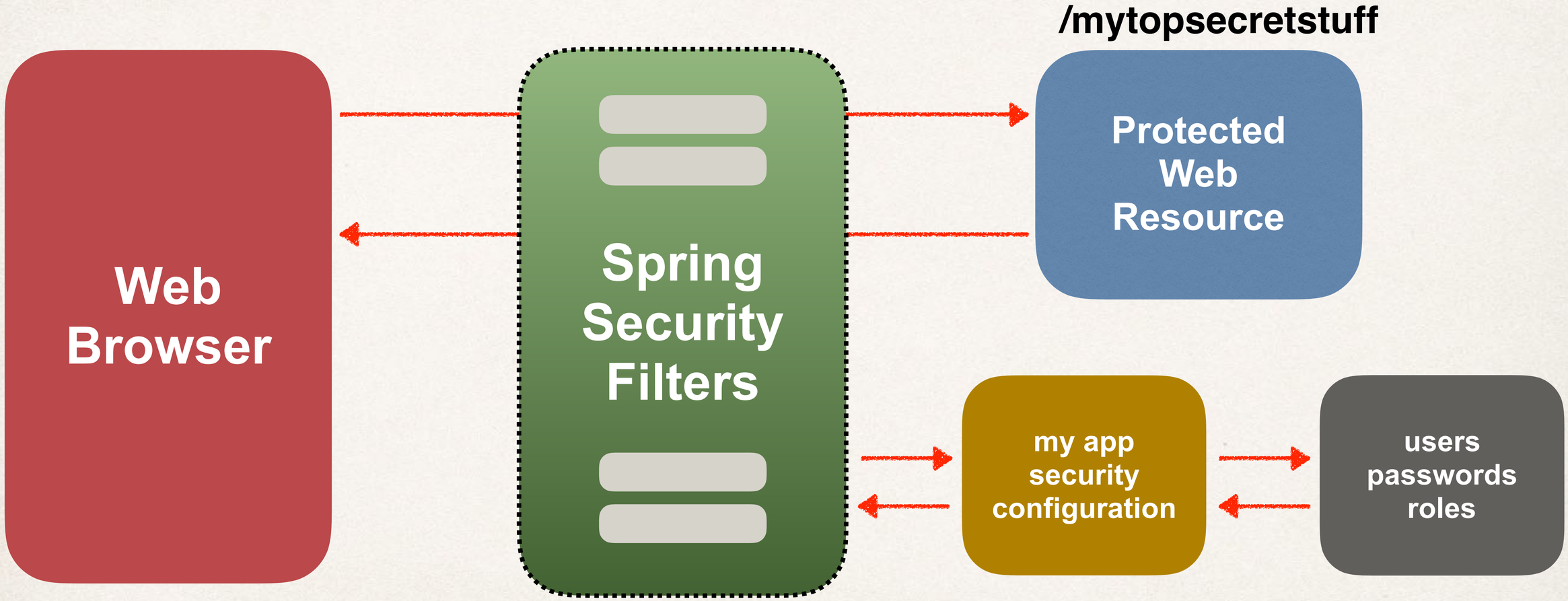

Spring Security in Action

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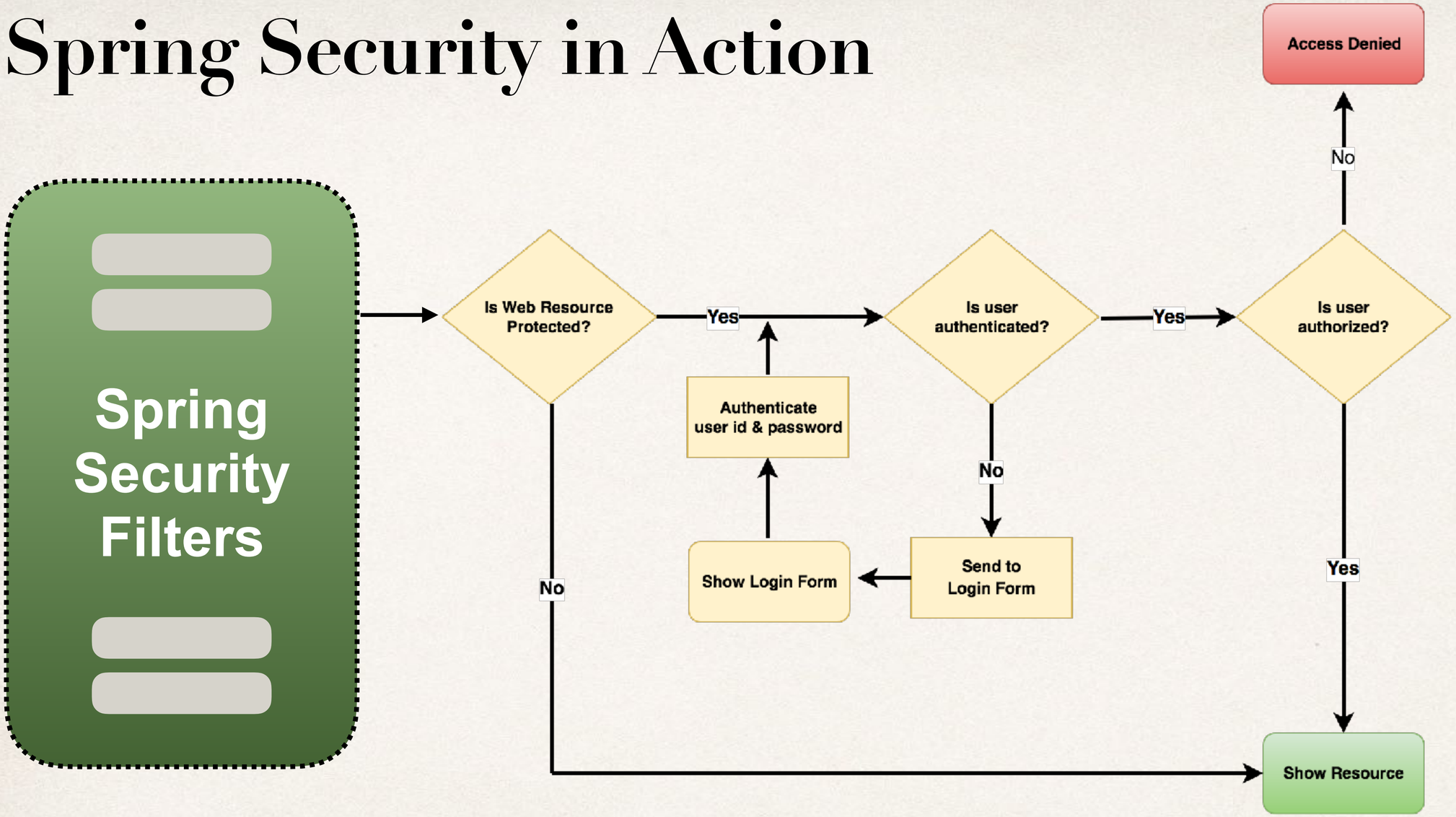

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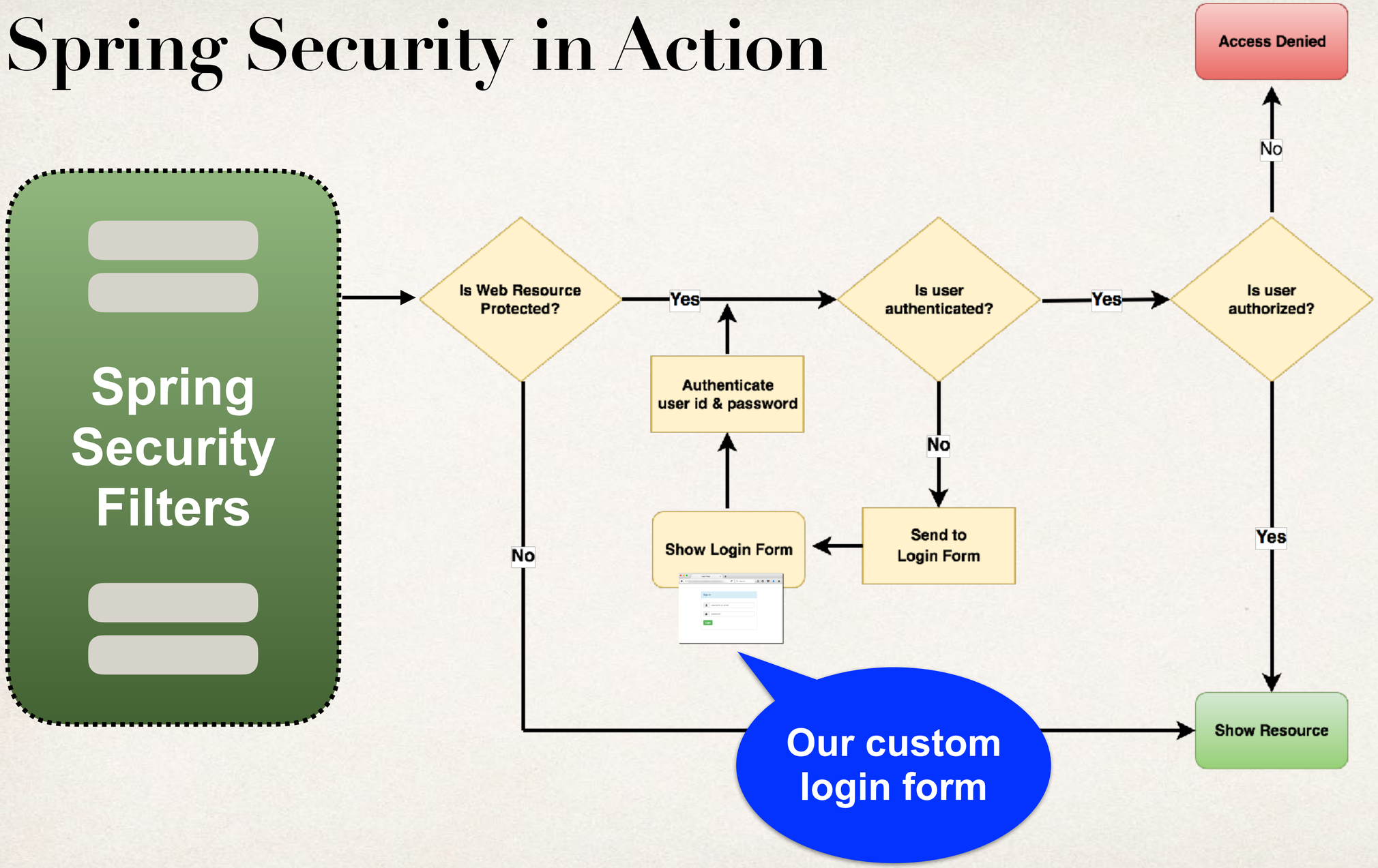

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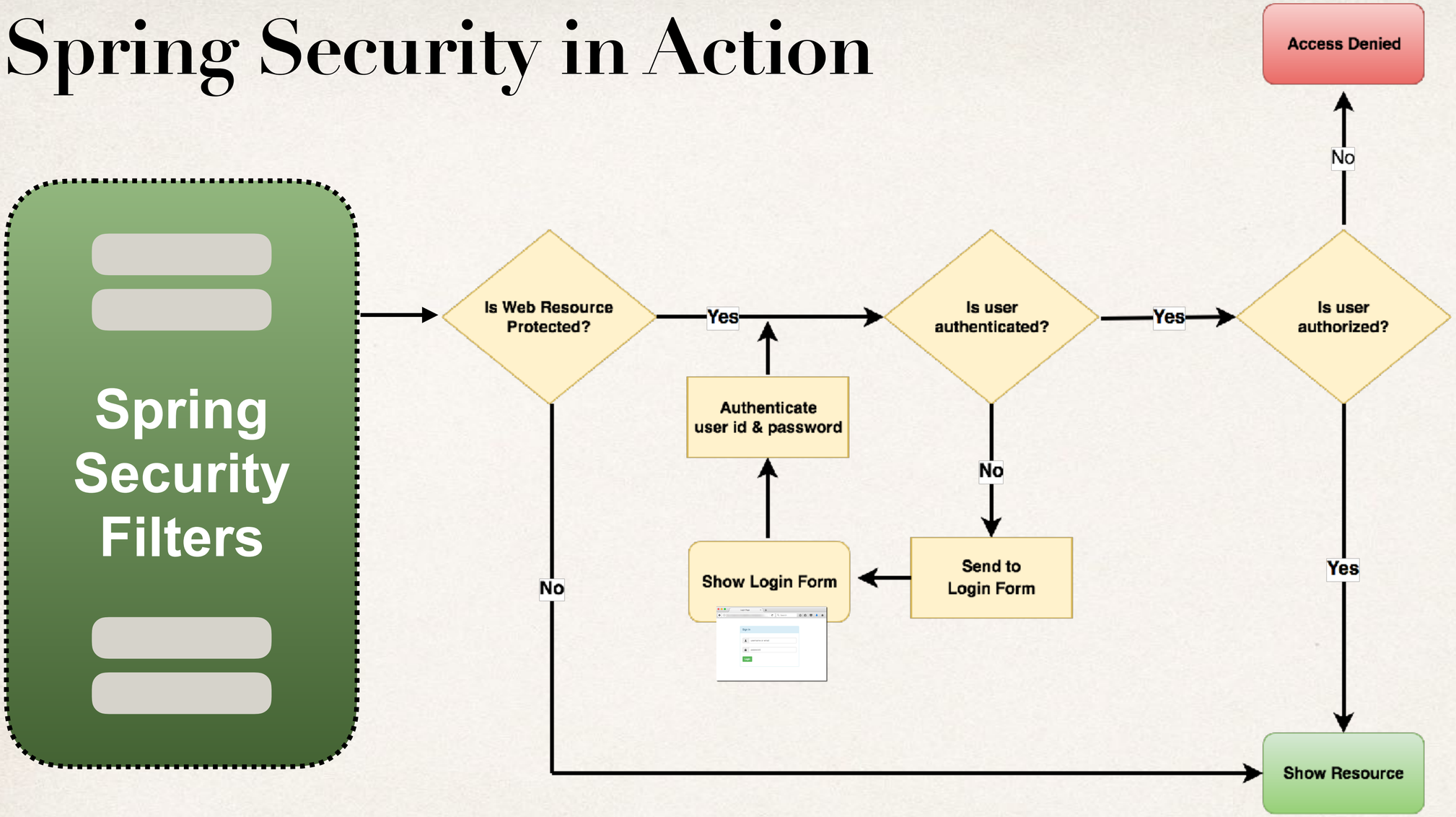

Development Process

Step-By-Step

Development Process

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1. Modify Spring Security Configuration to reference custom login form

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2. Develop a Controller to show the custom login form

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3. Create custom login form

Development Process

1. Modify Spring Security Configuration to reference custom login form

2. Develop a Controller to show the custom login form

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   - HTML (CSS optional)

Development Process

Step-By-Step

1. Modify Spring Security Configuration to reference custom login form

2. Develop a Controller to show the custom login form

3. Create custom login form

- HTML (CSS optional)
- Spring MVC form tag <form:form>

Step 1: Modify Spring Security Configuration

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File: DemoSecurityConfig.java

```
@Configuration
@EnableWebSecurity
public class DemoSecurityConfig extends WebSecurityConfigurerAdapter {

   // override method to configure users for in-memory authentication …

}
```

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Method	Description

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Method	Description
`configure(AuthenticationManagerBuilder)`	Configure users (in memory, database, ldap, etc)

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public class DemoSecurityConfig extends WebSecurityConfigurerAdapter {

   // override method to configure users for in-memory authentication …

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```

Method	Description
`configure(AuthenticationManagerBuilder)`	Configure users (in memory, database, ldap, etc)
`configure(HttpSecurity)`	Configure security of web paths in application, login, logout etc

Step 1: Modify Spring Security Configuration

File: DemoSecurityConfig.java

```
@Configuration
@EnableWebSecurity
public class DemoSecurityConfig extends WebSecurityConfigurerAdapter {

   @Override
   protected void configure(AuthenticationManagerBuilder auth) throws Exception {

      // add our users for in memory authentication
      …
   }









}
```

Step 1: Modify Spring Security Configuration

File: DemoSecurityConfig.java

```
@Configuration
@EnableWebSecurity
public class DemoSecurityConfig extends WebSecurityConfigurerAdapter {

   @Override
   protected void configure(AuthenticationManagerBuilder auth) throws Exception {

      // add our users for in memory authentication
      …
   }

   @Override
   protected void configure(HttpSecurity http) throws Exception {

      http.authorizeRequests()
            .anyRequest().authenticated()
          .and()
          .formLogin()
            .loginPage("/showMyLoginPage")
            .loginProcessingUrl("/authenticateTheUser")
            .permitAll();

   }
}
```

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Configure security of web paths in application, login, logout etc

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Restrict access based on the HttpServletRequest

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        .permitAll();

}
```

Any request to the app must be authenticated (ie logged in)

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}
```

We are customizing the form login process

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}
```

Show our custom form at the request mapping

"/showMyLoginPage"

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Login form should POST data to this URL for processing

(check user id and password)

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}
```

You can give ANY values
for this configuration.

Just stay consistent in your app

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}
```

Allow everyone to see login page.
No need to be logged in.

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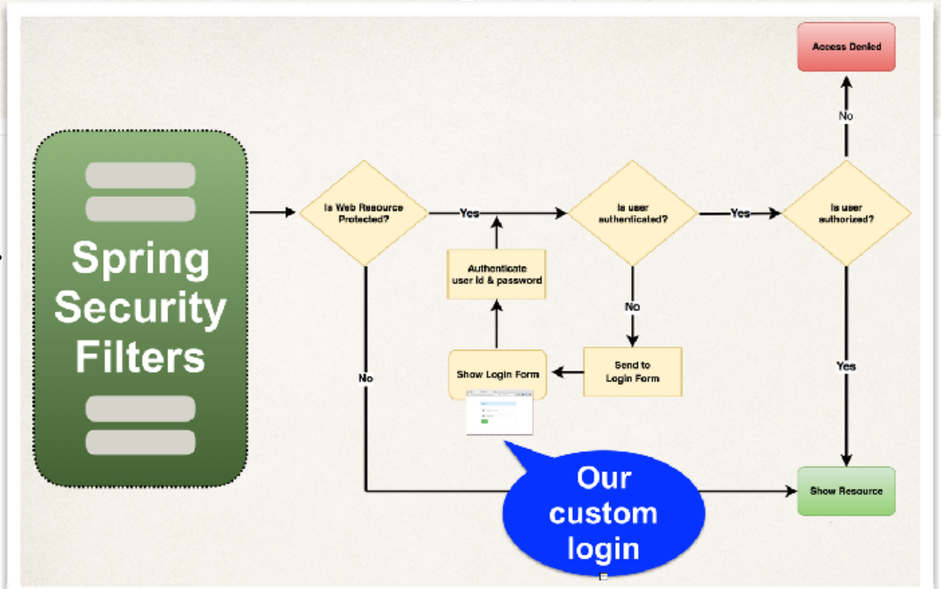

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TO DO
We need to create a controller for this request mapping

"/showMyLoginPage"

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TO DO
We need to create a controller for this request mapping

"/showMyLoginPage"

No Controller Request Mapping required for this.
We get this for free :-)

Step 2: Develop a Controller to show the custom login form

File: LoginController.java

```
@Controller
public class LoginController {









}
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@Controller
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  @GetMapping("/showMyLoginPage")
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View name

/WEB-INF/view/plain-login.jsp

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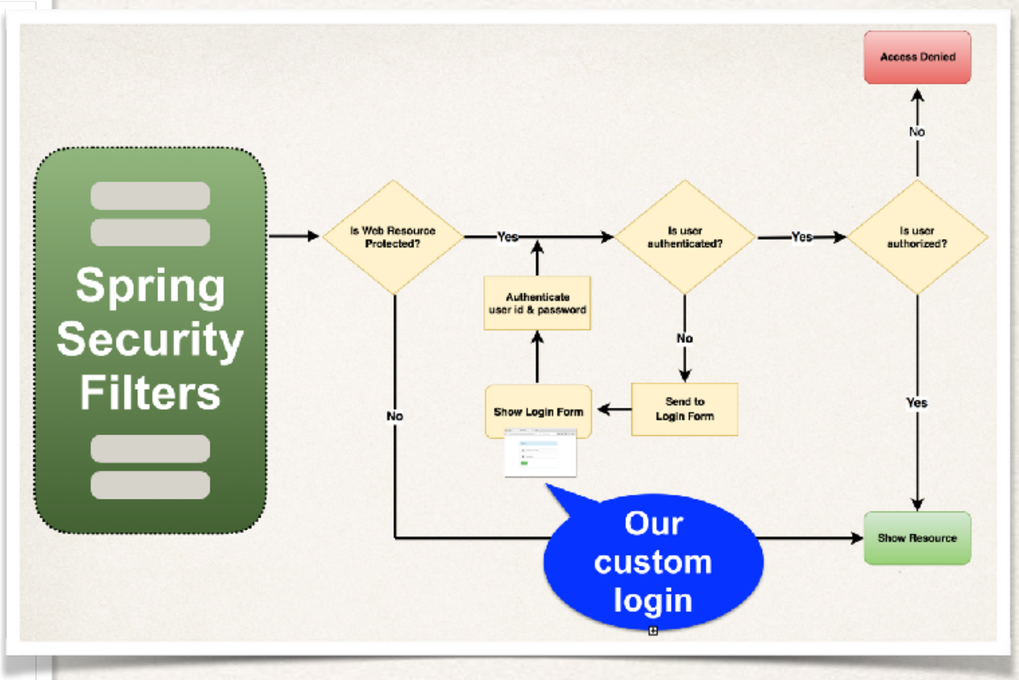

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