CS544 EA
Applications

Spring MVC: Exception Handling

Exception Handling

- @Controller level
  - Annotate methods with **@ExceptionHandler**
  - These will only handle exceptions that occur for methods inside this @Controller class

```java
@Controller
public class CarController {

    ...

    @ExceptionHandler
    public String handle(IOException e) {
        // do something with the exception
        return "exception";
    }
}
```

Limiting to a Specific Exception

- There are **two ways to limit** the type of exception your exception handler handles

```
@Controller
public class CarController {

    ...

    @ExceptionHandler
    public String handle(IOException e) {
        // do something with the exception
        return "exception";
    }

    @ExceptionHandler({FileSystemException.class, RemoteException.class})
    public String handle(Exception e) {
        // do something with the exception
        return "exception";
    }
}
```

Specify the specific type on your method

Specify one or more types on the annotation

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@ControllerAdvice

- To create @ExceptionHandlers that work for **multiple controllers** use @ControllerAdvice
  - AOP is used to add handlers to all controllers

```java
@ControllerAdvice
public class ExampleAdvice {

    @ExceptionHandler
    public String handle(IOException e) {
        // do something with the exception
        return "exception";
    }
}
```

Some Controllers

- By default @ControllerAdvice applies to all controllers – but you can also specify which

Apply to controllers
in this package (or below)

```
@ControllerAdvice("cs544.controllers")
public class ExampleAdvice {
```

Apply to controllers
that have this annotation

```
@ControllerAdvice(annotations = RestController.class)
public class ExampleAdvice {
```

Apply to controllers
that have one of these types

```
@ControllerAdvice(assignableTypes = {ControllerInterface.class, CarController.class})
public class ExampleAdvice {
```