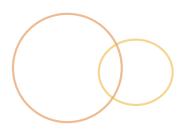
Validation Using JSR-303

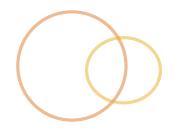














- Three ways to do validation
 - Use the JSR-303 annotations
 - Write your own
 - A mix of the previous two
- Using JSR-303, you simply use one of the annotations provided
- For writing your own, you implement ConstraintValidator and you define a annotation for it
- Configure a DataBinder if you want more control and/or don't want to use annotations









- Spring 3.0 and above support JSR-303. This JSR is all about validation via annotation
- Primarily found in the
 - javax.validation.constraints
- @NotNull
- @Min(<minimum value allowed>
- @Max(<maximum value allowed>)
- @Future
- ⊙@Size







- Needs to be configured
 - One part is the validation engine
 - One part is the API to get the JSR-303 annotations

```
<dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-validator</artifactId>
    <version>5.0.1.Final</version>
</dependency>
    <groupId>javax.validation</groupId>
        <artifactId>validation-api</artifactId>
        <version>1.1.0.Final</version>
</dependency>
</dependency>
```

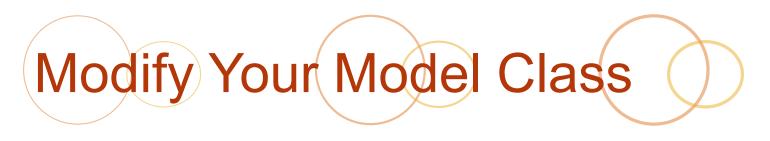
Preparing for Validation



To use validation, add the following bean into your configuration file

```
@Bean
  public Validator setup303Validation() {
    return new LocalValidatorFactoryBean();
}
```

- This turns on validation
 - There is an expectation that you have a provider loaded
 - O Comes from
 org.springframework.validation.beanvalidation
 - Implements what is needed for both Spring and Java's validation mechanisms





```
public class Book {
  @NotNull
  @Pattern(regexp="^(97(8|9))?\d{9}(\d|X)$")
  private String ISBN;
  @NotNull
  @Size (min=5, max=24)
  private String author;
  @NotNull
  private String title;
  @Past
  private Date dueDate;
```





```
public class LibraryServiceImpl implements LibraryService{
   private BookRepository repository;

public LibraryServiceImpl(BookRepository repository) {
    this repository = repository;
   }

public void addBook(@Valid Book b) {
    return repository.addBook(b);
   }
}
```









