



Spring Boot Web and MVC Homework



Recap

- 1. Spring Boot Web and MVC Architecture
- 2. Presentation Layer
- 3. Persistence Layer
- 4. Service Layer
- 5. Exception Handling in Spring Boot MVC
- 6. Input Validation Annotations



Homework

- 1. Make a list of all the annotations we have seen so far in the Spring Web Framework.
- 2. Create the following REST endpoints for the following Entity

Department

- id

- title

- isActive

- createdAt

REST APIs:

GET: /departments

POST: /departments

PUT: /departments

DELETE: /departments

GET: /departments/{id}



Homework

- 3. Write Exception Handling logic for the Department Entity.
- 4. Add the appropriate fields in the Department and Employee Entities so that the following validations can be added:
- @Null, @NotNull, @AssertTrue, @AssertFalse, @Min, @Max, @DecimalMin,
 @DecimalMax, @Negative, @NegativeOrZero, @Positive, @PositiveOrZero,
 @Size, @Digits, @Past, @PastOrPresent, @Future, @FutureOrPresent,
 @Pattern, @Email, @NotEmpty, @NotBlank, @Length, @Range,
- @CreditCardNumber, @URL



Homework

- 5. Create custom Annotation to handle a Prime number input
- 6. Create custom Annotation to check if the Password String field satisfies the following criteria:
 - a. contains one uppercase letter
 - b. contains one lowercase letter
 - c. contains one special character
 - d. minimum length is 10 characters

