VALIDATION WITH SPRING BOOT

- Bean Validation (https://beanvalidation.org/) is the standard for implementing validations in the Java ecosystem. It's well integrated with Spring and Spring Boot.
- Below is the maven dependency that we can add to implement Bean validations in any Spring/SpringBoot project,

<dependency>
 <groupId>org.springframework.boot</groupId>
 <artifactId>spring-boot-starter-validation</artifactId>
</dependency>

Bean Validation works by defining constraints to the fields of a class by annotating them with certain annotations.

We can put the @Valid annotation on method parameters and fields to tell Spring that we want a method parameter or field to be validated.

Below are the important packages where validations related annotations can be identified,

- √ jakarta.validation.constraints.*
- org.hibernate.validator.constraints.*

Important Validation Annotations

jakarta.validation.constraints.* org.hibernate.validator.constraints.* ✓ @CreditCardNumber √ @Digits √ @Email ✓ @Length √ @Max ✓ @Currency √ @Min √ @Range √ @URL √ @NotBlank ✓ @UniqueElements ✓ @NotEmpty ✓ @NotNull √ @EAN √ @Pattern √ @ISBN √ @Size

Sample Validations declaration inside a java pojo class,

```
@Data
public class Contact {

@ @NotBlank(message="Email must not be blank")
@ @Email(message = "Please provide a valid email address" )
private String email;

@ @NotBlank(message="Subject must not be blank")
@ @Size(min=5, message="Subject must be at least 5 characters long")
private String subject;

@ @NotBlank(message="Message must not be blank")
@ @ Size(min=10, message="Message must be at least 10 characters long")
private String message;
}
```

We can put @Valid Annotation on method parameters to tell Spring
 Framework that we want a particular POJO objects needs to be validated based on the validation annotation configurations. For any issues,
 Framework populates the error details inside the Errors object. The Errors can be used to display on the UI to the user. Sample example code is below,