Dynamic validation for the input type

- USSD changes discussion with @Rupesh Kansara @Mayank Kansara @Omololu Fabelurin we need to create custom validator.
- Bean level data validation for spring boot.

Objective:

- · create a normal bean level validator.
- · create custom bean level validator.
- · create Dynamic messaging.
- author @indranil banerjee

Creating Normal inbuild validation:

for request body whatever request body is being used you have to create inbuild validation shown in the picture

```
@Data
@AllArgsConstructor(staticName = "build")
@NoArgsConstructor

public class UserRequest {
    @NotNull(message = "username shouldn't be null")
    private String name;
    @Email(message = "invalid email address")
    private String email;
```

Creating Custom Validator:

to create a custom validator, one has to create a custom annotation.

```
@Target({ElementType.FIELD,ElementType.PARAMETER})
@Retention(RetentionPolicy.RUNTIME)
@Documented
@Fonstraint(validatedBy = PhoneNumberCodeTypeValidator.class)
public @interface PhoneNumberCodeType {

    1usage
    public String message() default "PhoneNumber should start with 91";

    no usages
    Class<?>[] groups() default {};

    no usages
    Class<? extends Payload>[] payload() default {};
}
```

• then one has to create a custom validator check it can be used for business case validation.

```
@Override
public void initialize(PhoneNumberCodeType constraintAnnotation) {
    ConstraintValidator.super.initialize(constraintAnnotation);
}

@Override
public boolean isValid(String phoneNumber, ConstraintValidatorContext constraintValidator.pattern ptrn = Pattern.compile( regex: "^(?:0091|\\\+91|0)[7-9][0-9]{9}$");
    Matcher match = ptrn.matcher(phoneNumber);
    return (match.find() && match.group().equals(phoneNumber));
}
```

• then one has to annotate the same with the validation.

```
@Email(message = "invalid email address")
private String email;
@PhoneNumberCodeType(message = "{phoneNumber.not.correct}")
private String mobile;
```

Dynamic Messaging for the Validation:

of dynamic messaging create one messages.properties file and map that in the bean class path.

```
gBean("testValidation")
public MessageSource messageSource(){
    ReloadableResourceBundleMessageSource messageSource= new ReloadableResourceBundleMessageSource.setBasename("classpath:messages");
    messageSource.setDefaultEncoding("UTF-8");
    return messageSource;
}

no usages
@Bean
public LocalValidatorFactoryBean validator( @Qualifier("testValidation") MessageSource
    LocalValidatorFactoryBean bean =new LocalValidatorFactoryBean();
    bean.setValidationMessageSource(messageSource);
    return bean;

}
no usages
@Bean
public LocaleResolver localEResolver(){
    SessionLocaleResolver local=new SessionLocaleResolver();
    local.setDefaultLocale(Locale.US);
    return local;
}
```

then create a custom message in your messages .properties file and use that in your validator.

```
phoneNumber.not.correct=Please provide correct indian phone number
```

Activating The validation:

annotate your required bean which need validation with

```
no usages

@PostMapping("/save")

public ResponseEntity<User> saveUser(@RequestBody @Valid UserRequest userRequest){
    return new ResponseEntity<>(service.saveUser(userRequest), HttpStatus.CREATED); —
}

no usages

@GetMapping("/fetchAll")

public ResponseEntity<List<User>> getAllUsers() { return ResponseEntity ak(service get
```

Test Result for Custom Validator:

Source Code:



Latest Code:

ndranb13/validation-exception-handling-main