Spring Form Validator API Example:-

Model class:

```
package com.app.model;
import java.util.List;
public class Employee {
     private Integer empId;
     private String empName;
    private String empGen;
    private String empProj;
    private String empAddr;
     private List<String> empLangs
    public Employee() {
         super();
    public Integer getEmpId() {
         return empId;
    public void setEmpId(Integer empId) {
         this.empId = empId;
    public String getEmpName() {
         return empName;
    public void setEmpName(String empName) {
         this.empName = empName;
    public String getEmpGen() {
         return empGen;
    public void setEmpGen(String empGen) {
         this.empGen = empGen;
```

```
public String getEmpProj() {
         return empProj;
    public void setEmpProj(String empProj) {
         this.empProj = empProj;
    public String getEmpAddr() {
         return empAddr;
    public void setEmpAddr(String empAddr) {
         this.empAddr = empAddr;
    public List<String> getEmpLangs() {
         return empLangs;
    public void setEmpLangs(List<String> empLangs) {
         this.empLangs = empLangs;
    @Override
    public String toString()
         return "Employee [empld=" + empld + ", empName=" +
empName + ", empGen=" + empGen + ", empProj=" + empProj
                        empAddr=" + empAddr + ", empLangs=" +
empLangs +
Controller
package com.app.controller;
import
org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.validation.Errors;
```

```
import
org.springframework.web.bind.annotation.ModelAttribute;
import
org.springframework.web.bind.annotation.RequestMapping;
import
org.springframework.web.bind.annotation.RequestMethod;
import com.app.model.Employee;
import com.app.validator.EmployeeValidator;
@Controller
public class EmployeeController {
    @Autowired
    private EmployeeValidator validator
     //1. show Form
    @RequestMapping("/register")
    public String showPage(ModelMap map)
         //Form Backing Object
         map.addAttribute("employee",new Employee());
         return "Register";
     //2. on click submit
    @RequestMapping(value="/save", method=RequestMethod.POST)
    public String processData(
              @ModelAttribute Employee employee,
              Errors errors,
              ModelMap map)
         String page=null;
          //1. call vlidator
         validator.validate(employee,errors);
         //2. check for errors exist
         if(errors.hasErrors()) {
              page="Register";
         }else {
              page="Data";
              map.addAttribute("emp",employee);
```

```
-by RAGHU SIR [SATHYA TECHNOLOGIES, AMEERPET, HYD]
         return page;
     }
}
Validator:-
package com.app.validator;
import java.util.regex.Pattern;
import org.springframework.stereotype.Component;
import org.springframework.util.StringUtils;
import org.springframework.validation.Errors;
import org.springframework.validation.Validator;
import com.app.model.Employee;
@Component
public class EmployeeValidator
    implements Validator
    @Override
    public boolean supports(Class<?> clz) {
         return Employee.class.equals(clz);
     @Override
    public void validate(Object target, Errors errors) {
         Down cast to Model class
         Employee e=(Employee)target;
         //Text Input Validation
         if(!Pattern.matches("[A-Z]{2,6}",e.getEmpName())){
              errors.rejectValue("empName", null, "Please
enter valid name");
         //Radio Button
```

```
//if(e.getEmpGen()==null ||
"".equals(e.getEmpGen())) {
         if(!StringUtils.hasText(e.getEmpGen())) {
              errors.rejectValue("empGen", null, "Please
choose one Gender");
         //Text Area
         if(!Pattern.matches("[A-Za-z0-9\\s]{2,50}"
e.getEmpAddr())) {
              errors.rejectValue("empAddr", null, "Plea
Enter Address");
         //DropDown
         if(!StringUtils.hasText(e.getEmpProj())) {
              errors.rejectValue("empProj", null, "Please
choose one Project");
         //Checkbox : List
         if(e.getEmpLangs()==null
e.getEmpLangs().isEmpty()) {
              errors.rejectValue("empLangs", null, "Please
choose one Language");
Register.jsp

fix="form"
uri="http://www.springframework.org/tags/form" %>
<html>
<head>
<style type="text/css">
.err{
    color: red;
</style>
</head>
<body>
<h3>Welcome to Employee Register page</h3>
```

```
<form:form action="save" method="POST"</pre>
modelAttribute="employee">
Employee Id : <form:input path="empId"/>
Employee Name : <form:input path="empName"/>
<form:errors path="empName" cssClass="err"/>
Employee Gender: <form:radiobutton path="empGen"</pre>
value="Male"/>Male <form:radiobutton path="empGen"</pre>
value="Female"/>Female
<form:errors path="empGen" cssClass="err"/>
Employee Address: <form:textarea path="empAddress"</pre>
<form:errors path="empAddr" cssClass="err</pre>
Employee Project:
  <form:select path="empProj">
    <form:option value="">-SELECT-</form:option>
    <form:option value="P1">P1</form:option>
    <form:option value="P2">P2</form:option>
  </form:select>
<form:errors path="empProj" cssClass="err"/>
Employee Language:
<form:checkbox path="emplangs" value="English"/> English
<form:checkbox path="empLangs" value="Hindi"/> Hindi
<form:checkbox path="emplangs" value="Telugu"/> Telugu
<form:errors path="emplangs" cssClass="err"/>
  <input type="submit" value="Register"/>
</form:form>
</body>
</html>
Data.jsp
Data is: ${emp}
```

app.properties

```
mvc.prefix=/WEB-INF/views/
mvc.suffix=.jsp
AppConfig.java:-
package com.app.config;
import
org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.ComponentScan;
import org.springframework.context.annotation.Configuration;
import
org.springframework.context.annotation.PropertySource;
import org.springframework.core.env.Environment;
import
org.springframework.web.servlet.config.annotation.EnableWebM
vc;
import
org.springframework.web.servlet.view.InternalResourceViewRes
olver;
@Configuration
@PropertySource("classpath:app.properties")
@ComponentScan("com.app")
@EnableWebMvc
public class AppConfig {
    @Autowired
    private Environment env;
    @Bean
    public InternalResourceViewResolver vr() {
```

```
InternalResourceViewResolver v=new
InternalResourceViewResolver();
         v.setPrefix(env.getProperty("mvc.prefix"));
         v.setSuffix(env.getProperty("mvc.suffix"));
         return v;
     }
AppInit.java:-
package com.app.init;
import
org.springframework.web.servlet.support.AbstractAnnotationCo
nfigDispatcherServletInitializer;
import com.app.config.AppConfig;
public class AppInit extends
AbstractAnnotationConfigDispatcherServletInitializer {
    @Override
    protected Class<?>[] getRootConfigClasses() {
         return new Class[] {AppConfig.class};
    @Override
    protected Class<?>[] getServletConfigClasses() {
            10DO Auto-generated method stub
         return null;
    @Override
    protected String[] getServletMappings() {
         return new String[] {"/"};
    }
}
```

```
pom.xml:-
<dependencies>
         <dependency>
             <groupId>org.springframework
             <artifactId>spring-webmvc</artifactId>
             <version>5.1.8.RELEASE
         </dependency>
    </dependencies>
    <build>
         <plugins>
             <plugin>
    <groupId>org.apache.maven.plugins
<artifactId>maven-compiler-plugin</artifactId>
                  <version>3.8.1
                  <configuration>
                      <source>1.8</source>
                      <target>1.8</target>
                  </configuration>
                  <artifactId>maven-war-plugin</artifactId>
                  <version>2.4</version>
                  <configuration>
      fallOnMissingWebXml>false</failOnMissingWebXml>
                  </configuration>
             </plugin>
         </plugins>
    </build>
Folder System:
```

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