## Day 5: Spring MVC - User Claim Interaction Workflow

```
Task 1: Migrate front-end form handling to Spring MVC controllers.
First we have to create html page
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Claim Submission Form</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h2>Claim Submission Form</h2>
  <form action="${pageContext.request.contextPath}/submitClaim" method="post">
    <label for="policyNumber">Policy Number:</label>
    <input type="text" id="policyNumber" name="policyNumber" required><br><br>
    <label for="claimAmount">Claim Amount:</label>
    <input type="text" id="claimAmount" name="claimAmount" required><br><br>
    <label for="claimDetails">Claim Details:</label><br>
    <textarea id="claimDetails" name="claimDetails" rows="4" cols="50"
required></textarea><br><br>
    <input type="submit" value="Submit Claim">
  </form>
</body>
</html>
Now we have to create mvc controller
package com.example.controller;
```

```
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.PostMapping;
import\ org. spring framework. we b. bind. annotation. Request Mapping;
import org.springframework.web.bind.annotation.RequestParam;
@Controller
@RequestMapping("/claim")
public class ClaimController {
  @PostMapping("/submitClaim")
  public String submitClaim(@RequestParam("policyNumber") String policyNumber,
                @RequestParam("claimAmount") Double claimAmount,
                @RequestParam("claimDetails") String claimDetails,
                Model model) {
    model.addAttribute("successMessage", "Claim submitted successfully!");
    return "claimConfirmation";
  }
}
```

## Task 2: Configure Thymeleaf as the view layer for dynamic content rendering in Spring MVC.

```
package com.example.config;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.servlet.ViewResolver;
import org.springframework.web.servlet.config.annotation.EnableWebMvc;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;
import org.springframework.web.servlet.view.InternalResourceViewResolver;
```

First add thymeleaf dependency

```
import org.thymeleaf.spring5.SpringTemplateEngine;
import org.thymeleaf.spring5.view.ThymeleafViewResolver;
import org.thymeleaf.templatemode.TemplateMode;
import\ or g. thy meleaf. template resolver. Class Loader Template Resolver;
@Configuration
@EnableWebMvc
public class WebConfig implements WebMvcConfigurer {
  @Bean
  public ClassLoaderTemplateResolver templateResolver() {
    ClassLoaderTemplateResolver templateResolver = new ClassLoaderTemplateResolver();
    templateResolver.setPrefix("/WEB-INF/views/");
    templateResolver.setSuffix(".html");
    templateResolver.setTemplateMode(TemplateMode.HTML);
    return templateResolver;
  }
  @Bean
  public SpringTemplateEngine templateEngine() {
    SpringTemplateEngine templateEngine = new SpringTemplateEngine();
    templateEngine.setTemplateResolver(templateResolver());
    return templateEngine;
  }
  @Bean
  public ViewResolver thymeleafViewResolver() {
    ThymeleafViewResolver resolver = new ThymeleafViewResolver();
    resolver.setTemplateEngine(templateEngine());
    resolver.setCharacterEncoding("UTF-8");
    return resolver;
```

```
}
}
Task 3: Implement data binding and server-side validation within the Spring MVC framework.
package com.example.model;
import javax.validation.constraints.NotBlank;
import javax.validation.constraints.NotNull;
public class Claim {
@NotBlank(message = "Policy number is required")
  private String policyNumber;
  @NotNull(message = "Claim amount is required")
  private Double claimAmount;
@NotBlank(message = "Claim details are required")
  private String claimDetails;
  public String getPolicyNumber() {
    return policyNumber;
  }
public void setPolicyNumber(String policyNumber) {
    this.policyNumber = policyNumber;
  }
public Double getClaimAmount() {
    return claimAmount;
  }
  public void setClaimAmount(Double claimAmount) {
    this.claimAmount = claimAmount;
  }
public String getClaimDetails() {
    return claimDetails;
  }
```

public void setClaimDetails(String claimDetails) {

```
this.claimDetails = claimDetails;
}
```