Value-Added Courses

# Part-A: Proposal

1. Title of the Course: **Spring MVC**
2. Duration of the Course(Hrs.): **38 hours**
3. Date of Conduct:(DD/MM/YYYY to DD/MM/YYYY) **10/08/2022 to 10/11/2022**
4. Overview of the Course:
   1. Rationale
   2. Prerequisite, if any(Skills/Knowledge) : Creating web pages using JSP and Servlet Using Dependency Injection in spring applications Performing CRUD operations using Spring Data JPA Knowledge of MVC architecture and its advantages Creating RESTful web services using annotations Knowledge of Angular
   3. Objective:

Setup and configure the Spring MVC modules Assemble a Web application with Spring MVC controllers, view resolvers and views Map web requests using Spring MVC’s annotations Design input forms using Spring MVC’s tag library Apply multiple languages to the views Create MVC RESTful web services using annotations Enhance look and feel of view pages using Themes Integrate AngularJS view with Spring MVC

Content that will be covered in this course will be:

1. Servlets and JSP
2. Spring 5 Basics
3. Spring Data Access
4. RESTful Web Services using JAX-RS
   1. ExpectedOutcome
5. Setup and configure the Spring MVC modules.
6. Apply the knowledge to assemble a Web application with Spring MVC controllers, view resolvers and views.
7. To analyze the Mapping web requests using Spring MVC’s annotations.
8. Design input forms using Spring MVC’s tag library and apply multiple languages to the views.
9. Create MVC RESTful web services using annotations. Enhance look and feel of view pages using Themes.
10. Course Delivery Plan

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| **LectureNo.** | **Topic** | **Reading Material/Reference** | **No. of Hours** | **Name of the Expert handling the Topic** |
| 1. | Week 1 | Why Spring MVC  What is Spring MVC  InfyGo – Spring MVC | 4 hours | * Rajeswari Palani kumar * Rasmi G. * Sharmila Josphin Paul * Nisha Menon * Vipin Nittoo |
| 2. | Week 2 | Spring MVC UI  Internationalization and Localization  Dynamic Rows  Content Negotiation | 8 hours | * Rajeswari Palani kumar * Rasmi G. * Sharmila Josphin Paul * Nisha Menon * Vipin Nittoo |
| 3. | Week 3 | Spring REST  Spring MVC Summary  Appendix A  Appendix B | 5 hours | * Rajeswari Palani kumar * Rasmi G. * Sharmila Josphin Paul * Nisha Menon * Vipin Nittoo |
| 4. | Week 4 | Appendix C  Appendix D  Spring MVC Hands-On Try Out  Spring MVC capstone Project | 22 hours | * Rajeswari Palani kumar * Rasmi G. * Sharmila Josphin Paul * Nisha Menon * Vipin Nittoo |
| 5. | Week 5 | Doubt Session and Query Handling (By Course In charge) | 4 hours | Er. Surabhi Kaul |