

## LAB ASSIGNMENT : SPRING, SPRING BOOT & REST

### VIRTUAL LEARNING SYSTEM

You are required to develop the software solution for a Virtual Learning System

The system simplifies and simulates a virtual learning system (like LinkedIn Learning, Coursera).

The Primary module is the Course Module which has to be implemented first on a priority basis. This application stores details of courses.

The application has to be implemented using

- Mysql as the backend and Spring Boot Application for the front end.
- Spring Data JPA with Hibernate for persistence
- Tested using Postman

This software module to be released initially needs to have the following **features**:

The course moderator who uses the system on behalf of the user should perform the following operations.

- A. Login and get authenticated.
- B. Search for courses by author or course name.
- C. Display the details of the courses.
- D. Add course to the cart.
- E. Delete courses from the cart.

Requirements:

- A. Login table with Login Id and Password
- B. Database named VLSDB, Course Table with Course Id, Course Name, Author Name, Duration in hours, Availability.
- C. Exception handling and custom exceptions

- D. Recommended to implement layered architecture.
- E. Readable code with comment line entries.

**Note:** *The project should follow best practices.*