MID TERM TEST

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.

The application would be used by Course Moderators to

Manage course and author details.

THE APPLICATION HAS TO BE IMPLEMENTED USING

- Microsoft SQL Server as the database.
- Spring Boot Application for the RESTful Web Services.
- Spring Data JPA integrated with Hibernate for performing the ORM.
- Postman to test the RESTful end points.

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. Implement layered architecture with controllers, services and repositories.
- E. Readable code with comment line entries.

Submission:

- 1. Submit a single zip file that contains everything required.
- 2. You are supposed to submit all the code that you have written.
- 3. Along with the code you are also required to submit a document that mentions
 - a. Project Name of your Back End and/or Front-End applications
 - d. Database name for the application.

Note: The project should follow best practices.