MID TERM TEST 1: 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 has to be implemented using

- MySQL as the backend and Java Application for the front end.
- This application stores details of courses with their authors.
- JDBC and Collection API

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. Solution to be implemented with a combination of collections and JDBC API.

D. Exception handling and custom exceptions

E. Recommended to implement layered architecture.

F. 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 documentation 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.