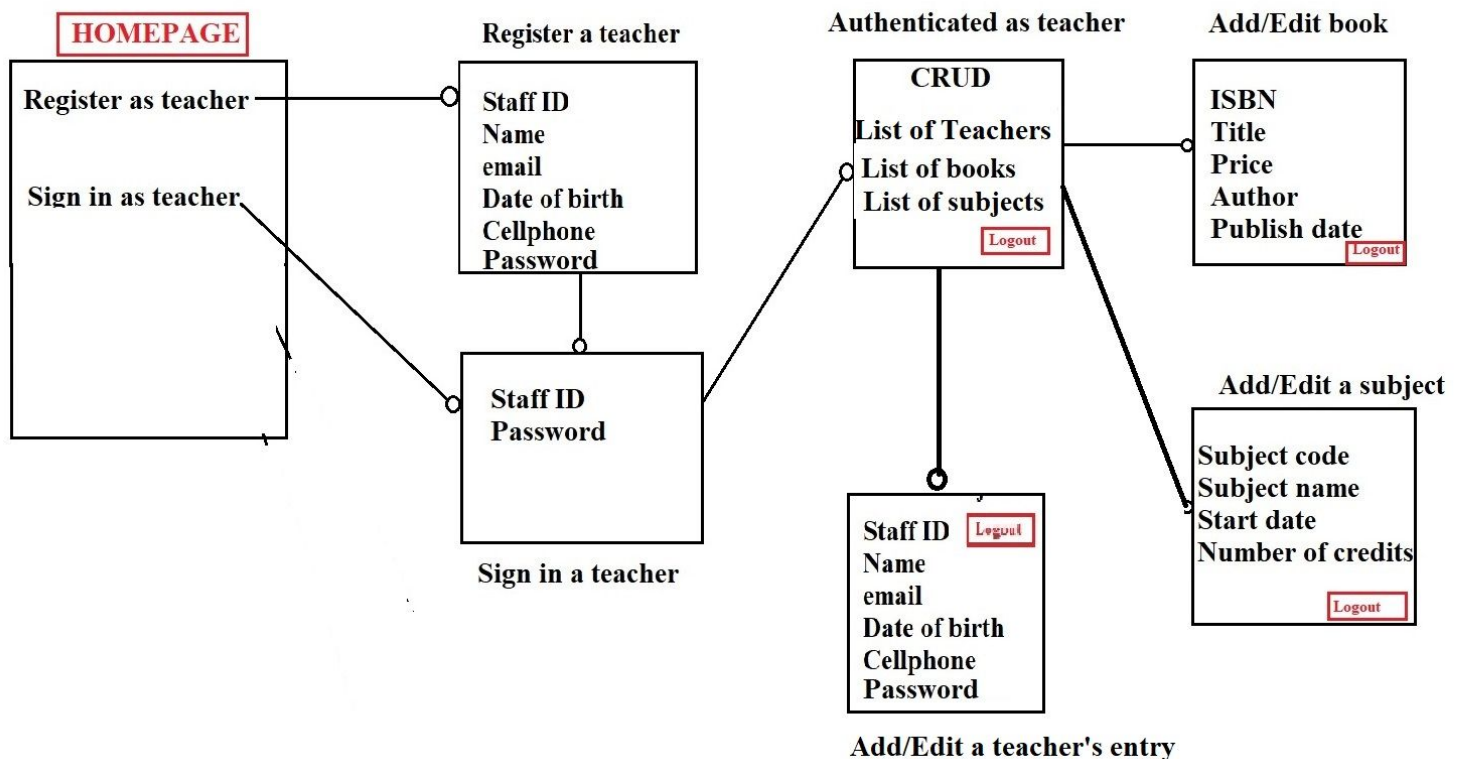# (420-JD5-AB) Programming III Fall 2022

Test #2 [Worth 30%]

Due: November 1st 2022 at noon on Lea

Question: TEACHER PORTAL

Design a Spring Boot MVC web application which offers to register and sign in as a teacher.
A teacher can perform CRUD ops on Books, Teachers and Subjects as shown in the figure below.

The web application should include 3 tables: Teacher, Books and Subjects with

the appropriate fields as per the picture. The logout button on appropriate pages should return to the homepage.

Teacher table (Staff ID, Name, email, date of birth, cellphone, password)
  ➢ The staff ID (exactly 4 digits) should be used as primary key (NOT auto generated)
  ➢ Date of birth should follow the pattern "yyyy-mm-dd"
  ➢ Cellphone (exactly 10 digits)
  ➢ Password (encrypted)

Books table (ISBN, Title, price, author name, date of publication)

➢ The staff ID (exactly 13 digits) should be used as PK (NOT auto generated)
➢ Price (up to 300 CAD)
➢ Date of publication should follow the pattern "yyyy-mm-dd"

Subjects table (Subject code, subject name, start date, number of credits)
➢ The subject code (exactly 6 chars) should be used as PK (NOT auto generated)
➢ Start date should follow the pattern "yyyy-mm-dd"
➢ number of credits should be positive integer between 0 to 4

IMPORTANT: Submission guidelines

1. The project name should be called after your surname followed by your student ID.
2. Submit a single zip of your spring boot project as well as 7 screenshots corresponding to the following running test scenarios:
   a. picture of an authenticated teacher page (list of books, at least 2 occurrences)

   b. picture of whole blank teacher registration page with all constraints displayed.

   c. picture of whole blank book registration page with all constraints displayed.

   d. picture of whole blank subject registration page with all constraints displayed.

   e. picture of the hierarchy of all files from spring boot

3. **All screenshots must show a background with your project name in Spring Boot. The browser can be resized in the screenshot to make room for a background.**
4. Only the last submission will be evaluated.
5. **Failure to follow these guidelines will result in loosing points**
6. Plagiarism and cheating will be strongly penalized as per college policies.
7. Do not submit any work via MIO or TEAMS.