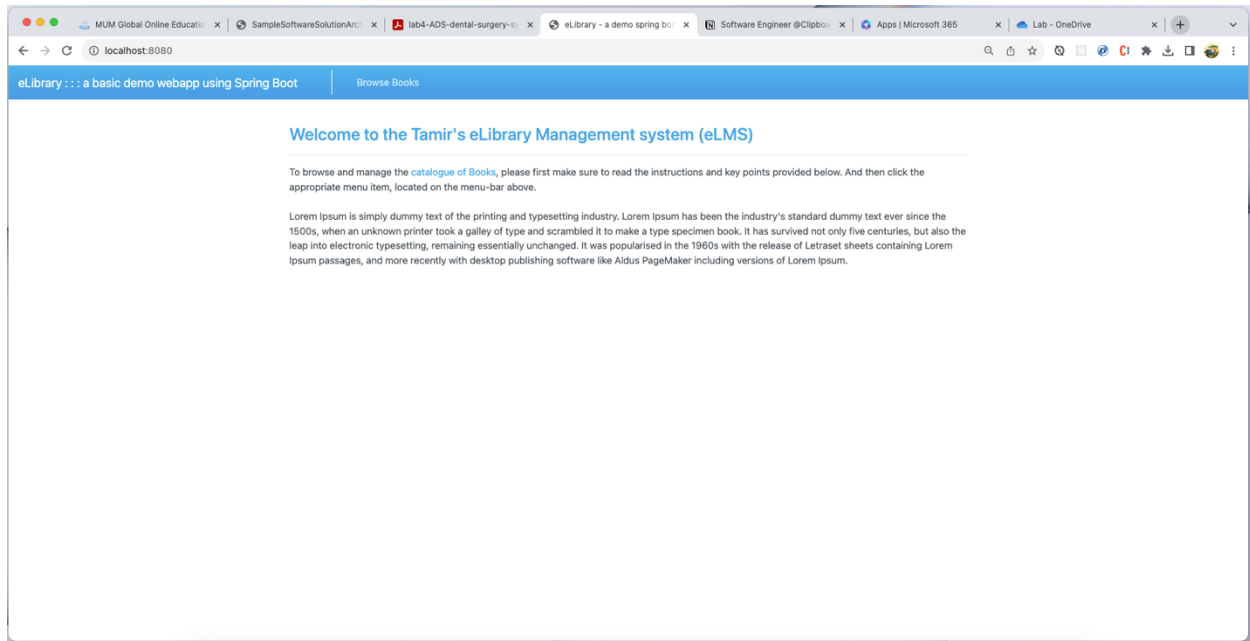


## Lab3



### 1. What is Spring?

Spring is a Java framework that simplifies application development, especially for enterprise and web applications. It provides tools for managing dependencies, simplifies web development, and supports various application concerns like data access, security, and more.

### 2. What is Spring Boot?

Spring Boot is a framework that simplifies Java application development by providing pre-configured templates and features. It's ideal for creating web applications and microservices, minimizing setup effort and enhancing productivity.

### 3. What is the relation between Spring platform and Spring Boot?

Spring Boot is built on the Spring platform and leverages the core features of Spring while simplifying and simplifying the development experience. Developers can use Spring Boot to create Spring applications more easily, but they can use the broader Spring platform when they need more granular control or need more specialized configuration than Spring Boot.

### 4. What is the relation between Spring platform and Spring framework?

There is no distinct relationship between the Spring platform and the Spring framework because they are one and the same.

5. What is Dependency Injection and how is it done in the Spring platform/framework?

Dependency Injection (DI) in Spring is about letting the framework handle object dependencies, promoting modular and maintainable code. It's done through constructors, setters, or annotations like `@Autowired`.

6. What is Inversion of Control (IoC) and how is it related to Spring?

In Spring, Inversion of Control (IoC) means the framework controls object creation and dependencies, promoting flexibility and modularity. It's closely linked to Dependency Injection (DI), where the framework injects dependencies into objects for better code organization.

## Lab4

