STUDENT MANAGEMENT SYSTEM

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Introduction to Student Management

- The system will use to manage the student management

- The student management System consists of Course creation and Student registration

- The System can handle all the details about a student

- The Student Management System is an automated version of manual Student Management System

Frontend : Thyme leaf

▶ Thymeleaf is a modern server-side Java template engine for both web and standalone environments, capable of processing HTML, XML, JavaScript, CSS and even plain text.

▶ The main goal of Thymeleaf is to provide an elegant and highly-maintainable way of creating templates. To achieve this, it builds on the concept of *Natural Templates* to inject its logic into template files in a way that doesn't affect the template from being used as a design prototype. This improves communication of design and bridges the gap between design and development teams.

▶ Thymeleaf has also been designed from the beginning with Web Standards in mind – especially **HTML5** – allowing you to create fully validating templates if that is a need for you.

Thymeleaf Attributes

- 1. Thymeleaf th:text attribute
- 2. Thymeleaf th:each attribute
- 3. Thymeleaf th:if and th:unless attribute
- 4. Thymeleaf th:switch and th:case attribute
- 5. Thymeleaf th:fragment attribute

Backend : Spring Boot

- Creating Spring boot using boot initializer
- Spring Boot automatically configures your application based on the dependencies you have added to the project
- Dependencies that added in my project are :

1) Spring web
2) Thyme lea
3) Spring Data JPA
4) MySql database
5) Devtools

Spring Boot Architecture

Spring Boot flow architecture
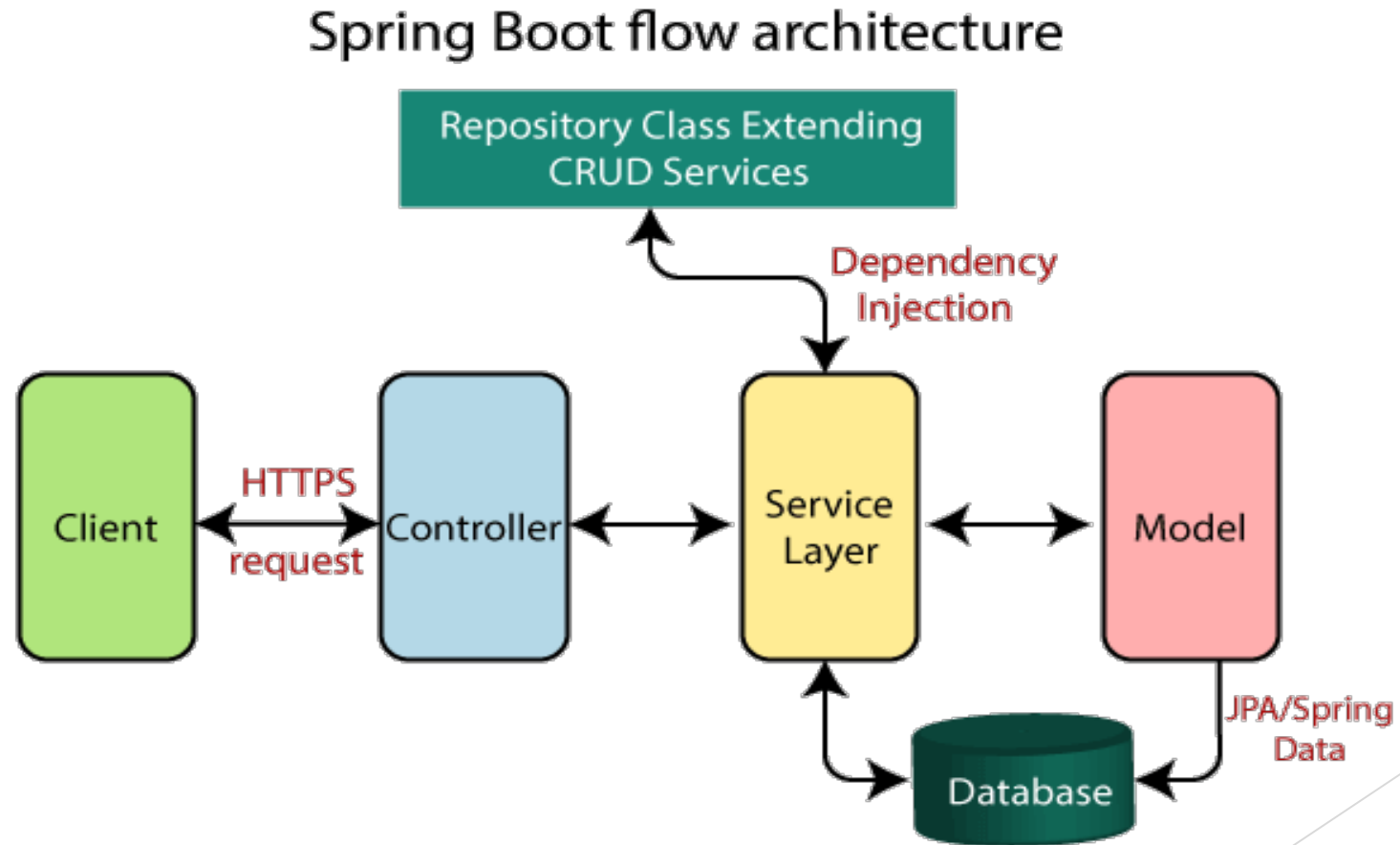
Thyme leaf And Spring Boot Architecture
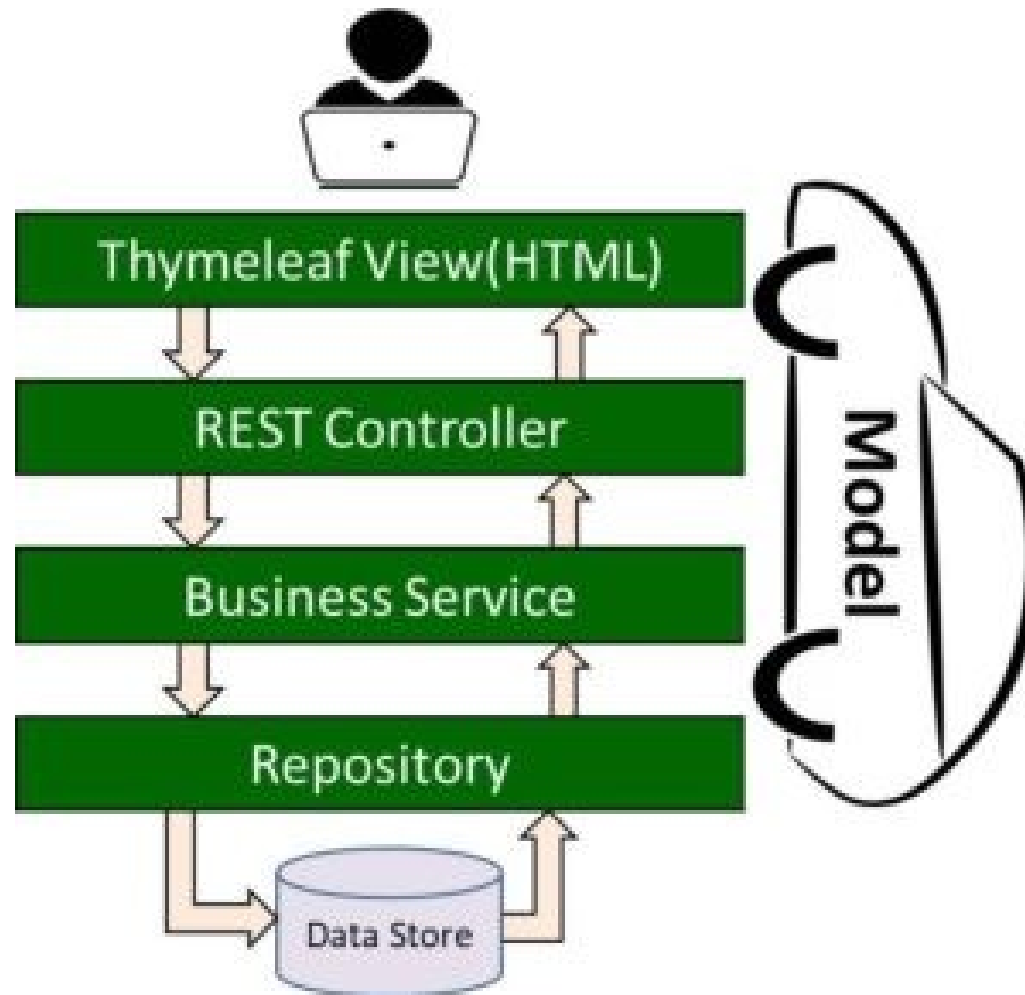
Spring Boot

▶ Spring Boot is a popular backend technology, based on JavaScript. It can be utilized effectively by any Java app with the availability of multiple extensions for development. There are multiple modules that give services. There is a spring core container that is a primary module offering containers. It is written in Java and is open source in nature. Spring Boot maintains a list of standards and tools that help garner good results.

▶ **Key Features:**

• Uses the Spring security sub-project to offer security

• Leverages the Spring platform

• Written in Java

• It Helps developers start off with ease

• Focuses on enterprise applications

MY SQL

➢ The most popular open-source database in the world is mySQL. It is very powerful and simple to set up, and easy to use.

➢ Once we have done the setup and are ready to use, we can connect with the client as a superuser.

➢ In the shell, we need to give this command to connect with the root(superuser) MySQL -u root –p.

➢ We can perform many different operations using mySQL like create, delete a database, insert a record; all this is possible using simple commands.

Backend : Maven

▶ Maven is a really strong project management tool that is used to build and manage any Java-related project. Maven helps in easing the job of a Java developer. It is capable of handling a project's build, reporting, and documentation.

▶ After understanding the meaning of Maven in Java, let me show you the working through the help of a diagram.
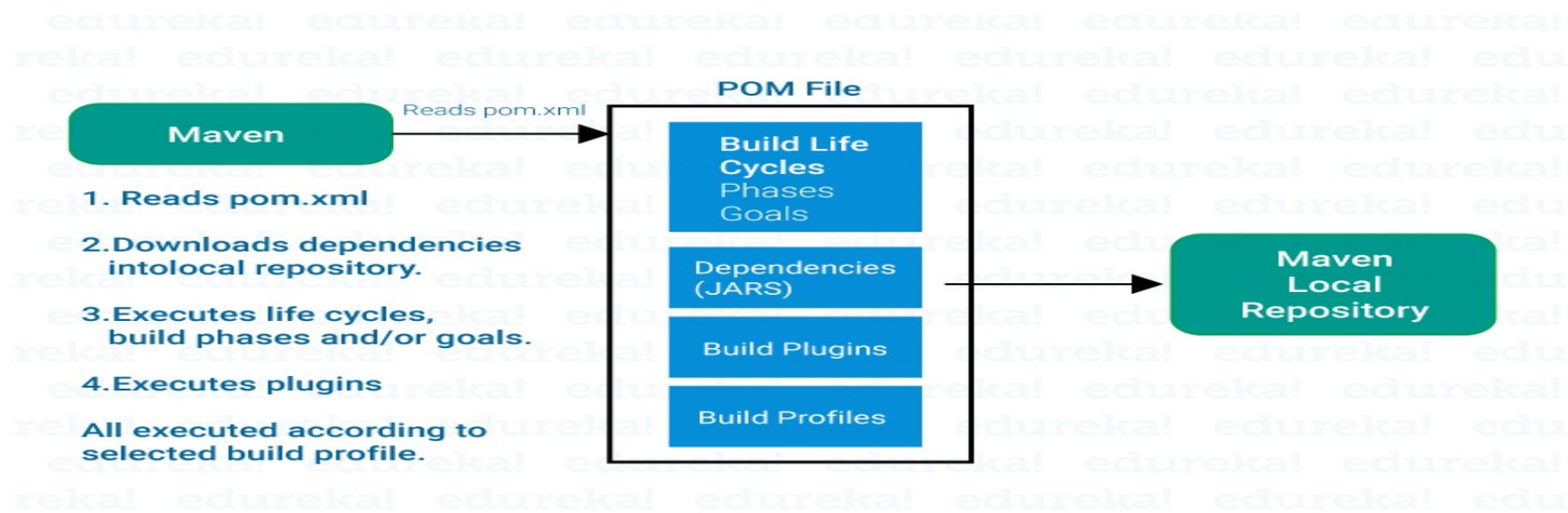
Technologies And Tools

- Thmye leaf
- Bootstrap
- Maven
- My Sql
- Spring Boot

Objectives

1) The main objective of the Student Management System provides an online
     platform to manage the students of a college and coaching institutes

2) Improves The General Comfort Of Staffs
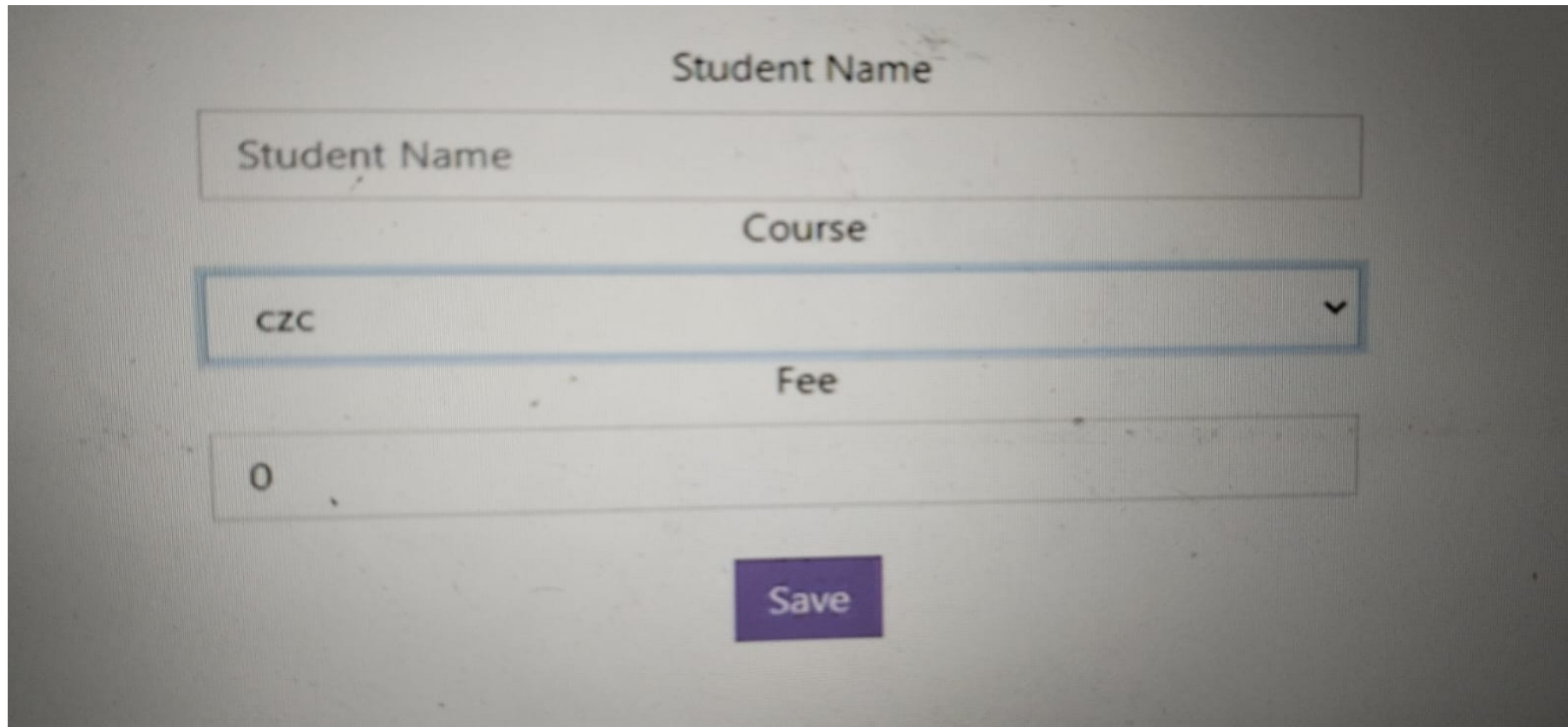
3) Provide A Means To Advice Students

Home page
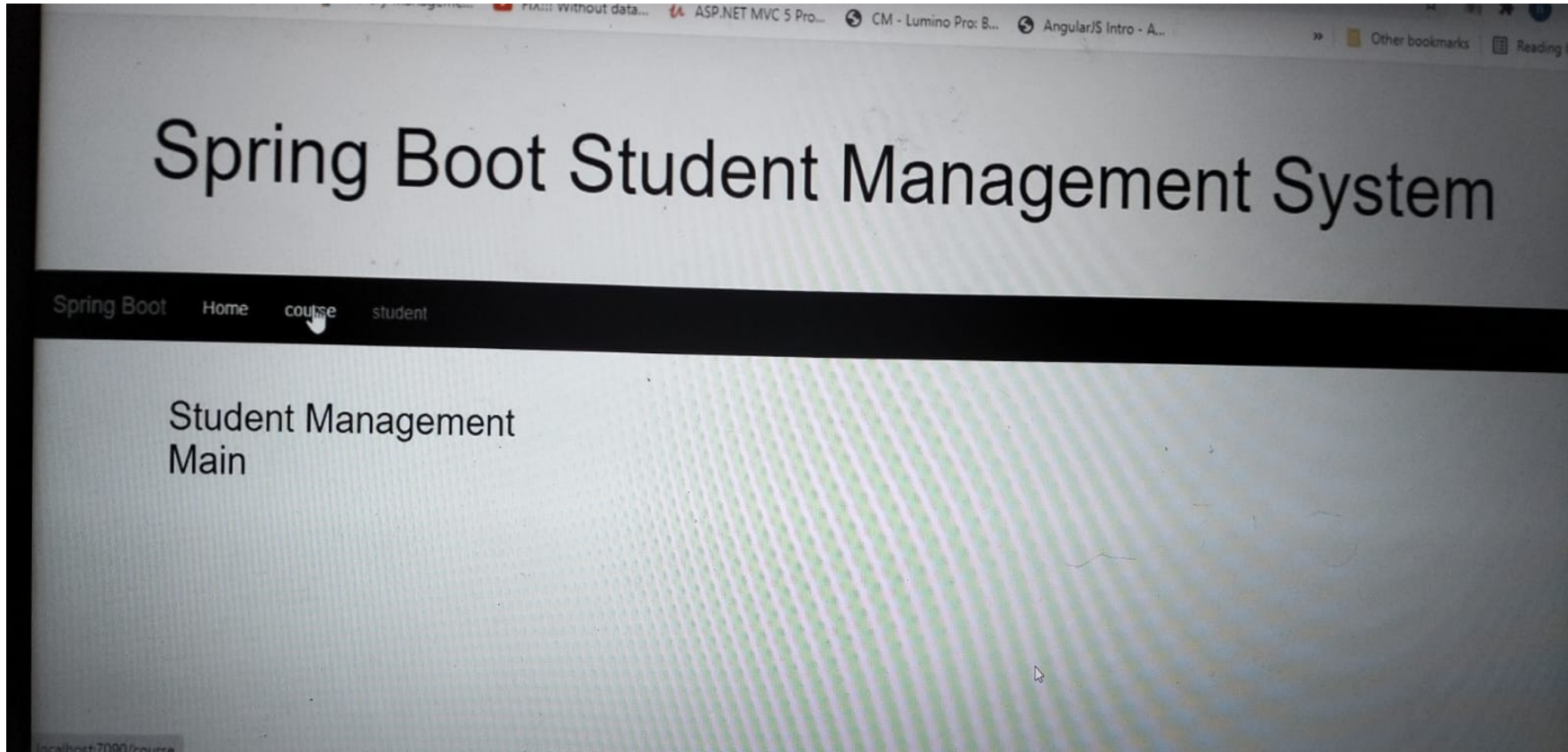
Student registration

Student Regpistation

Add new

Student ID	Student Name	Course Name	edit	delete
3	John	vbb	Edit	Delete
5	mn	vbb	Edit	Delete

Add new student
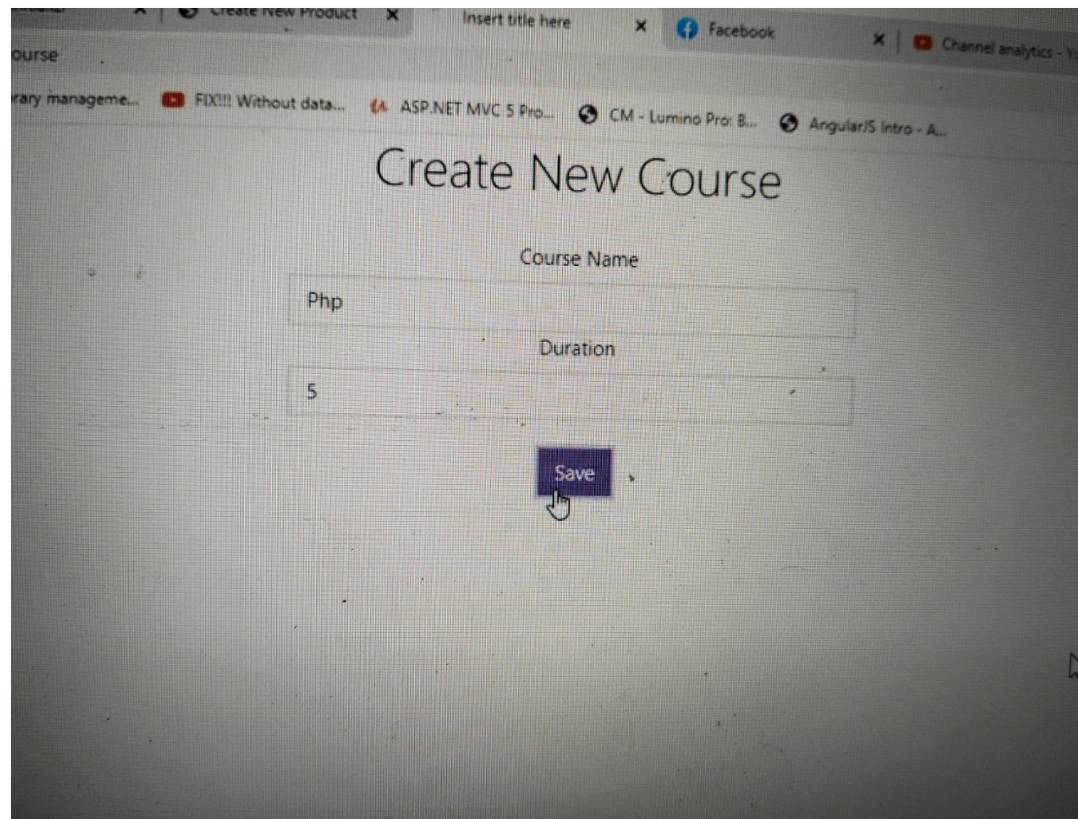
Course creation

Add new course

Advantages

1) The student management system work across the whole student lifecycle Keeping management of student data and managing knowledge has ne'er been therefore easy!

2)The complete pursuit of the scholars.

3) Managing the timetables.

4) Easy access to all or any.

5)Better communication.

6) Simplifying and streamlining all the tasks.

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Conclusion

1) Helpful to perform paperless work and manage all data

2)Provide easy ,accurate, unambigious and faster data access

3)Student management systems provide effective mechanisms for higher education institutions to manage students and faculty and their interaction with each other and external systems

4)User friendly screen to access data

Help to access the record

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