**Developing a Backend Admin for Learner’s Academy.**

Project 1

DESCRIPTION

**Project objective:**

As a Full Stack Developer, design and develop a backend administrative portal for the Learner’s Academy. Use the GitHub repository to manage the project artifacts.

**Background of the problem statement:**

Learner’s Academy is a school that has an online management system. The system keeps track of its classes, subjects, students, and teachers. It has a back-office application with a single administrator login.

**The administrator can:**

● Set up a master list of all the subjects for all the classes  
● Set up a master list of all the teachers  
● Set up a master list of all the classes  
● Assign classes for subjects from the master list  
● Assign teachers to a class for a subject (A teacher can be assigned to different classes for different subjects)  
● Get a master list of students (Each student must be assigned to a single class)

There will be an option to view a Class Report which will show all the information about the class, such as the list of students, subjects, and teachers  
       
The goal of the company is to deliver a high-end quality product as early as possible

**## Product Backlog:**

1.  Create database and tables.

2.  Connect the database to the project.

3.  Create models classes.

4.  Create  a database utility class to retrieve data.

5.  Create login page.

6.  Create JSP files for all pages of the project.

7.  Create a servlet to get requests and send responses to the JSP files.

8.  Add cookies.

9.  Create a CSS file to format the contents.

10. Debug and Test the project.

**## Technologies and tools Used**

•   Servlet: to do the business logic and works a controller for the project.

•   JSP: to handle the presentation view.

•   SQL: to create and manage the database.

•   JDBC: to make operations on the database for the project.

•   CSS: to format the contents.

•   phpMyAdmin: to administrate and manage the database manually.

•   Eclipse: to write and run the code.

•   Tomcat: to run and deploy servlet application.

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**## How to run the program**

•   clone project

•   Import the “database\database.sql” file to your database administration tool.

•   Go to “\src\main\webapp\META-INF\context.xml” file and open it.

•   Edit the database’ properties such as username, password and driverClassName to be suit to your database administration tool.

•   Now run program on a server.

•   To login you must enter admin for both username and password.

Screen Shots





