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

The code for this project is hosted at <https://github.com/AbhishekJha02/Backend-Admin-for-Learner-s-Academy.git>

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**Project' Details :-**

This project aims to design and develop a backend administrative portal for the Learner’s Academy using Java EE technologies. I developed it as a project of phase 2 for the Become a back-end expert course. The goal of this project is to apply servlet, jsp and JDBC concepts.

## Product Backlog :-

* Create database and tables.
* Connect the database to the project.
* Create models classes.
* Create a database utility class to retrieve data.
* Create login page.
* Create JSP files for all pages of the project.
* Create a servlet to get requests and send responses to the JSP files.
* Add cookies.
* Create a CSS file to format the contents.
* 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.

## Flowcharts of The Application :-

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## Core concepts used in the project:-

* + Object-Oriented: used to create and model objects for users and their credentials.
  + Databases: used to store and retrieve data.
  + Data Sources: used to define a set of properties required to identify and access the database.
  + Collections: used some collections such array list to store collection of data.
  + Exception Handling: used to catch problems that arises in the code especially in I/O blocks.
  + Cookies: to store log-in data on the client browser.

## 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.