

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>

The project is developed by Abhishek Kumar Jha.

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 :-

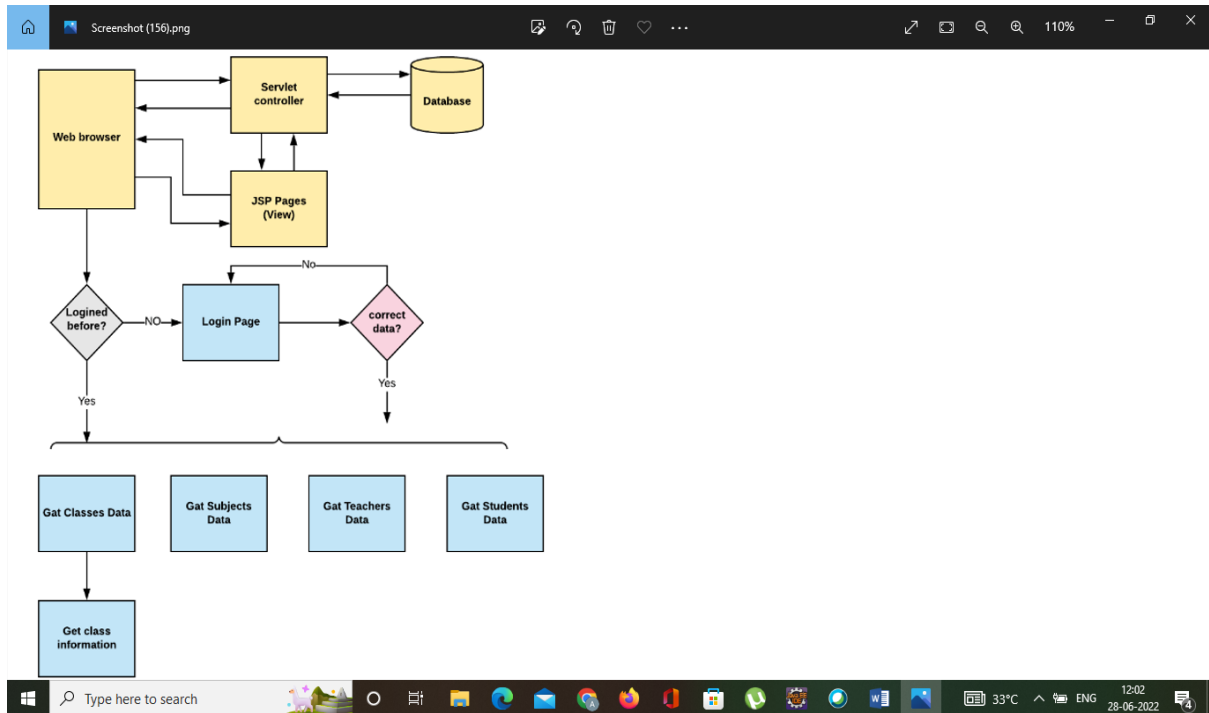
- Create database and tables.
- Connect the database to the project.
- Create models classes.
- Create a database utility class to retrieve data.
- Create login page.
- Create JSP files for all pages of the project.
- Create a servlet to get requests and send responses to the JSP files.
- Add cookies.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



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.