

Administrative-portal-for-Learner-s-Academy

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:

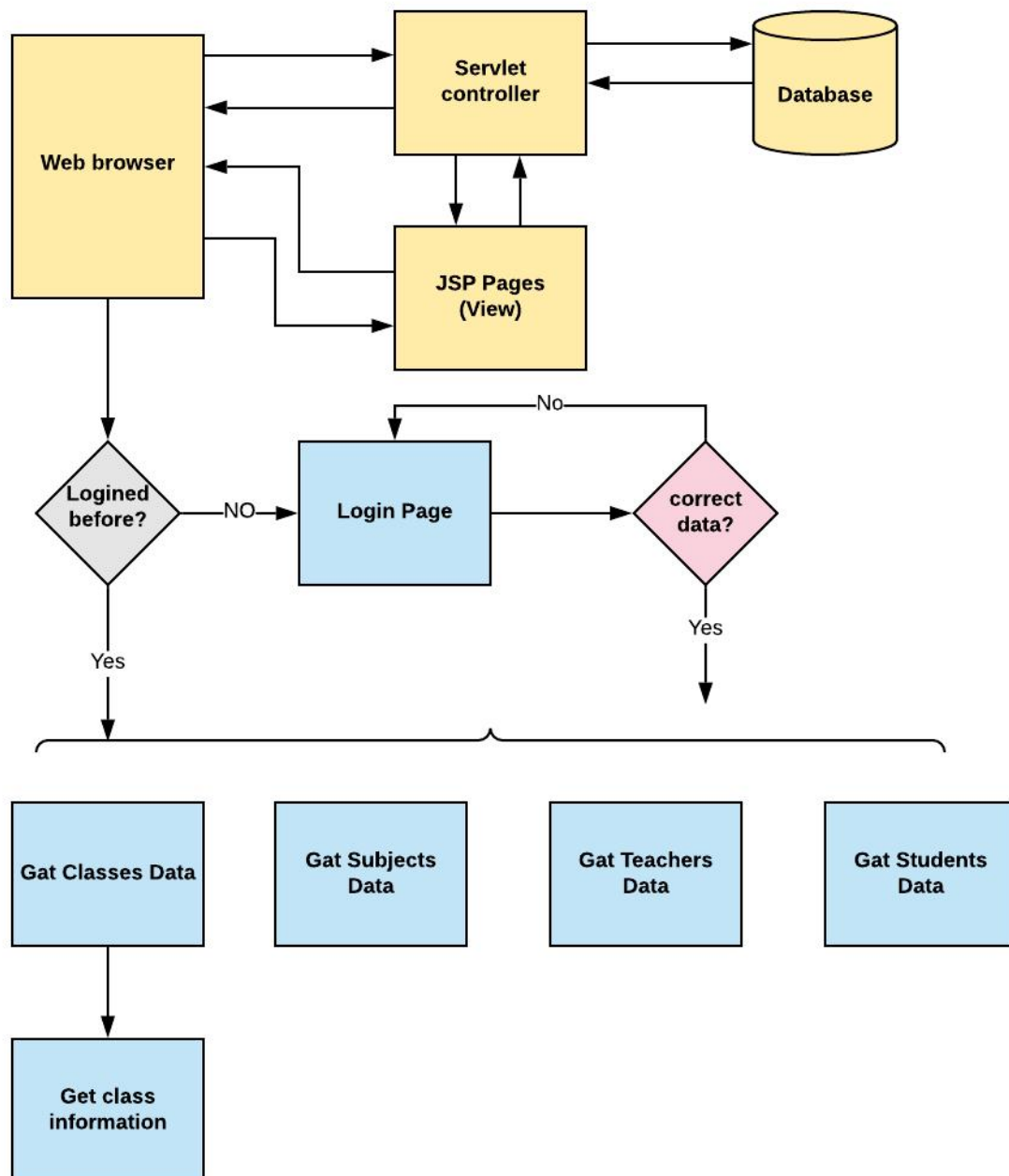
1. Create database and tables.
2. Connect the database to the project.
3. Create models classes.
4. Create a database utility class to retrieve data.
5. Create login page.
6. Create JSP files for all pages of the project.
7. Create a servlet to get requests and send responses to the JSP files.
8. Add 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.
- MySQL: 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



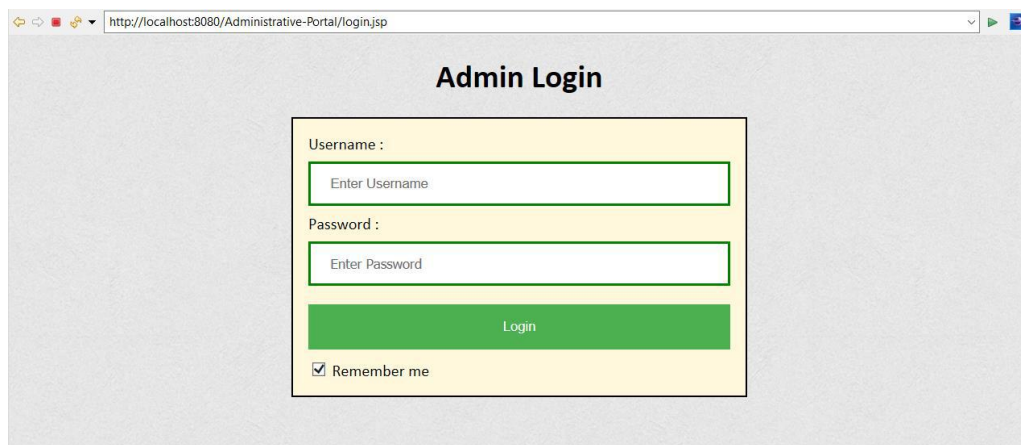
Core concepts used in the project.

- 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 arraylist 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.

Screenshots:



The screenshot shows a web browser window with the address bar displaying `http://localhost:8080/Administrative-Portal/login.jsp`. The page has a light gray background and a title "Admin Login" centered at the top. Below the title is a yellow rectangular form box. Inside this box, there are three input fields: "Username :" with a placeholder "Enter Username", "Password :" with a placeholder "Enter Password", and a green "Login" button. At the bottom of the form box, there is a checkbox labeled "Remember me" which is checked.

Administrative Academy Portal

Classes

Subjects

Teachers

Students

Log out

Classes

Section	Subject	Teacher	Time	List of Students
1	English	Sami Rashed	9:00	List
3	Mathematics	Rami Sari	11:30	List

Administrative Academy Portal

Classes

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Students

Log out

Students of English class section 1

First Name	Last Name	age
Ali	Ahsan	21
Gazi	Dani	21
Lami	Saro	24

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Subjects

Name	Shortcut
English	ENG
Mathematics	MATH

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Teachers

First Name	Last Name	age
Sami	Rashed	55
Rami	Sari	66

Administrative Academy Portal

Classes

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Students

Log out

Students

First Name	Last Name	age
Ali	Ahsan	21
Hassan	Ahmed	23
Gazi	Dani	21
Tony	Fadel	18
Lami	Saro	24
Yazen	Rawan	24