**Developed by:** Ronak Vyas

**Project Name:** Learners Academy

**GITHUB LINK:** [**https://github.com/ronvyas14/Learners\_academy\_Project\_simplielearn**](https://github.com/ronvyas14/Learners_academy_Project_simplielearn)

**Concepts used in academy applications:**

1. **Servlets:** Servlet technology is used to create a web application (resides at server side and generates a dynamic web page). Servlet technology is robust and scalable because of java language. Before Servlet, CGI (Common Gateway Interface) scripting language was common as a server-side programming language
2. **JDBC :** JDBC stands for Java Database Connectivity. JDBC is a Java API to connect and execute the query with the database. It is a part of JavaSE (Java Standard Edition). JDBC API uses JDBC drivers to connect with the database.

A list of popular interfaces of JDBC API are given below:

* Driver interface
* Connection interface
* Statement interface
* PreparedStatement interface
* CallableStatement interface
* ResultSet interface
* ResultSetMetaData interface
* DatabaseMetaData interface
* RowSet interface

1. **SQL:** SQL is used to communicate with a database. According to ANSI (American National Standards Institute), it is the standard language for relational database management systems. SQL statements are used to perform tasks such as update data on a database or retrieve data from a database.
2. **JSP:** It stands for Java Server Pages. It is a server-side technology. It is used for creating web application. It is used to create dynamic web content.

**Algorithm:**

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. Enter Subject, Class, and Student Name
9. Create a Checkbox to select the subject to Assign for each Student, Class, and Teacher to format the contents.
10. Debug and test the project.

**Admin flow chart:**

