



STUDENT PORTAL

ABSTRACT

Creating a web application that performs CRUD operations on a database table using JDBC, JEE, and Servlet.

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Full Stack web Development

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1. Introduction

The Student Portal application is designed to manage student information efficiently using CRUD operations. It allows administrators to add, update, delete, and view student records via a web interface.

2. Project Setup

Database Setup: To begin using the Student Portal, follow these steps to set up your database:

1. **Database Setup:**
 - Open your preferred database management tool (e.g., MySQL Workbench).
 - Connect to your database server.
2. **Creating the Database:**
 - Create a database named `student_db`.
 - Create a table named `students` with the following schema:

```
sql
Copy code
CREATE TABLE students (
    id INT PRIMARY KEY AUTO INCREMENT,
    name VARCHAR(50) not null,
    email VARCHAR(50) not null,
    age INT
);
```

Running the Application:

- Deploy the web application on a Java EE server (e.g., Apache Tomcat).
- Access the application through the deployed URL.

3. Features

CRUD Operations:

- **Create:** Add a new student record.
- **Read:** Display a list of all students.
- **Update:** Modify existing student details.

Delete: Remove a student from the database

User Interface:

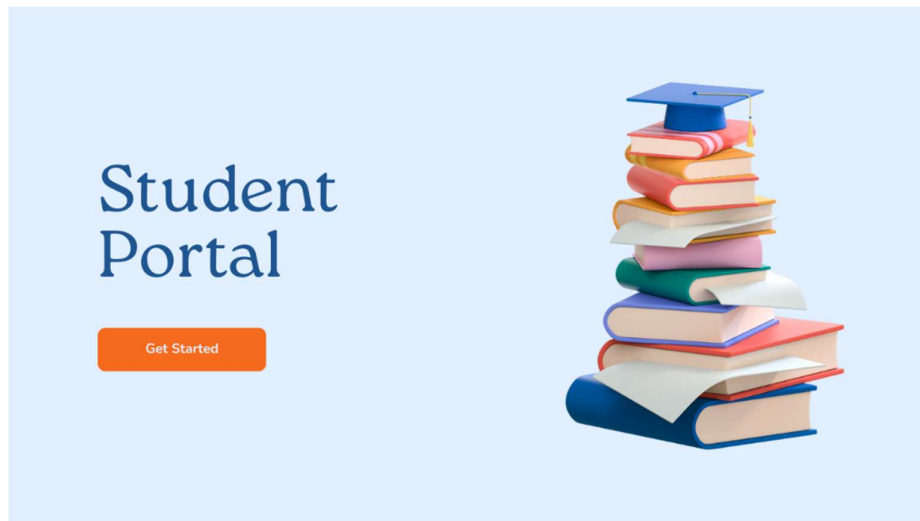
- The application provides forms for adding and updating student information.
- A list view displays all students with options to edit or delete each entry.

4. Application Structure

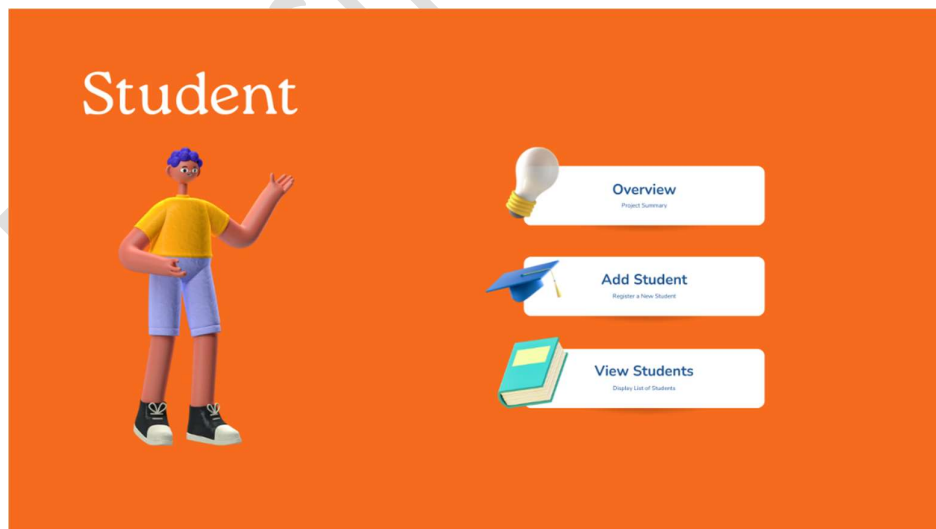
The application structure consists of:

- **Servlets:** Java classes handling HTTP requests for CRUD operations.
- **JSP Pages:** Front-end pages for user interaction (e.g., `list.jsp`, `add.jsp`, `update.jsp`).


Title Page:



Home Page:



Overview Page:



Project Overview

The Student Portal System is a web application designed to streamline administrative tasks related to managing student records within an educational institution.

Add Student Page:


Register

Name

Email

Age

Save



View Students Page:

Student Records					
<div>HomeAdd StudentEnter search termSearch</div>					
Student Id	Name	Email	Age	Action	
1	John Doe	johndoe@example.com	24	Edit	Delete
24	Jane Smith	janesmith@example.com	28	Edit	Delete
25	Alice Johnson	alicej@example.com	49	Edit	Delete
26	Bob Brown	bobbrown@example.com	21	Edit	Delete
27	Charlie Davis	charlied@example.com	20	Edit	Delete
28	Diana Evans	dianaev@example.com	23	Edit	Delete
29	Evan Harris	evanh@example.com	22	Edit	Delete
30	Fiona Clark	fionac@example.com	21	Edit	Delete
31	George Lewis	georgel@example.com	20	Edit	Delete
32	Hannah Walker	hannahw@example.com	19	Edit	Delete
33	Irene Scott	irenes@example.com	23	Edit	Delete
34	Jack White	jackw@example.com	22	Edit	Delete
38	Noah King	noahk@example.com	19	Edit	Delete
39	Olivia Wright	oliviaw@example.com	23	Edit	Delete
40	Paul Green	paulg@example.com	20	Edit	Delete
44	John Doe	johndoe@example.com	20	Edit	Delete
65	Rajesh	rajesh@gmail.com	25	Edit	Delete

5. Testing

Ensure all CRUD operations work as expected:

- Create a new student, verify it appears in the list.
- Update a student's details and confirm changes.
- Delete a student and ensure the list updates accordingly.

Click here to view the Student Portal Application Execution

<https://drive.google.com/file/d/1wmWdJdvb5h-QZAn4325GTcLb-dH3ywcN/view>

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