**Student Result Management System**

**Project Overview**

**Users:**

1. **Admin/Staff:** Manages student records and results.
2. **Student:** Logs in to view their results.

**Core Features**

**Admin Panel:**

* Add/Edit/Delete student records.
* Add/Edit/Delete results per student.
* View all students and their results.

**Student Panel:**

* Login using student ID/password.
* View personal result details.

**Tech Stack**

| **Component** | **Technology** |
| --- | --- |
| Front-end | HTML, CSS, JSP |
| Back-end | Servlet + JDBC (or JPA) |
| Database | MySQL or Oracle DB |
| Server | Apache Tomcat |
| Optional | JSTL, Bootstrap (UI) |

**Database Design (MySQL Example)**

-- Students Table

CREATE TABLE students (

student\_id INT PRIMARY KEY,

name VARCHAR(100),

email VARCHAR(100),

password VARCHAR(100)

);

-- Results Table

CREATE TABLE results (

result\_id INT PRIMARY KEY AUTO\_INCREMENT,

student\_id INT,

subject VARCHAR(100),

marks INT,

grade VARCHAR(2),

FOREIGN KEY (student\_id) REFERENCES students(student\_id)

);

**Basic Architecture (MVC)**

**Model** – Java classes for Student, Result, and DB interaction (DAO).  
**View** – JSP pages for login, dashboards, result views.  
**Controller** – Servlets handling user input and logic.

**Suggested Pages/Modules**

| **Page** | **Description** |
| --- | --- |
| index.jsp | Landing page |
| login.jsp | Student/admin login |
| admin-dashboard.jsp | Admin menu |
| student-dashboard.jsp | Student menu |
| add-student.jsp | Form to register a new student |
| add-result.jsp | Add result for student |
| view-result.jsp | Student's result page |
| ResultServlet.java | Business logic for results |
| AuthServlet.java | Login handling |