Student

Admin Login

Username:

Password:

LOGIN

Student Management System: A Java Swing Project

This project is a Java-based for managing student data efficiently.

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Overview

Java Desktop App
Built using the Swing GUI toolkit for rich user interaction.

User Roles
Supports two roles: Student and Admin with specific permissions.

Data Management
Stores student details, marks, attendance, and more in flat files.

Efficiency
Improves organization in educational institutions.

Class Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:00-10:00	CS101 Room 101		CS101 Room 101		CS101 Room 101
10:00-11:00					
11:00-12:00		CS101 Room 101		CS101 Room 101	
2:00-3:00					
3:00-4:00					

System Architecture

Model
Stores student details and academic data.
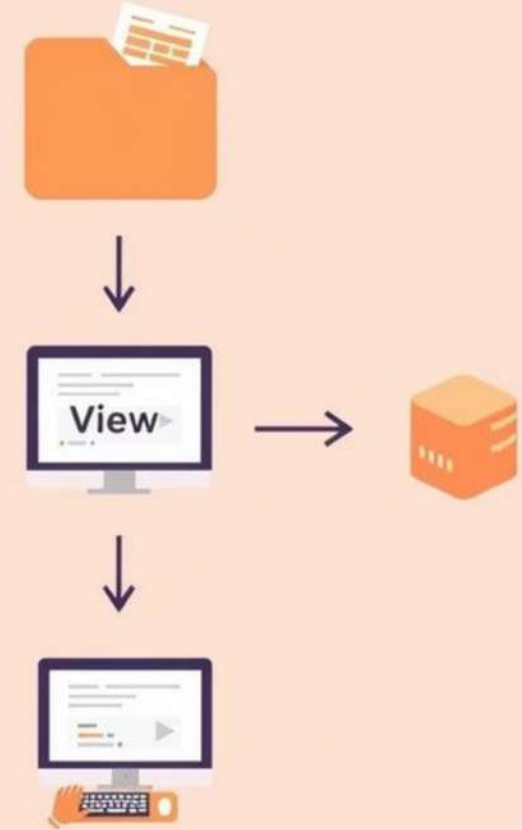
View
GUI built with Swing for user interaction.

Controller
Processes user input and updates model and view.

Database
Uses flat files like CSV or text for data persistence.

My Profile My Courses Grades Schedule

Ayush Kumar

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Phone	123-456-7890
Department	Computer Science
Semester	Fall 2024
GPA	3.85

Help

y Profile **My Courses** Grades Schedule

cademic Performance

101	A	3	12.0
102	A-	4	14.8
IG201	B+	3	9.9

Student Features

- View personal info: name, ID, contact
- Check attendance records easily
- Access course marks and grades
- Optionally access course materials
- Simple and user-friendly navigation

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Admin Features

Manage Records
Add, update, delete student details.

Course Management
Handle course names, codes, and credits.

Attendance Tracking
Record and monitor student attendance.

Reporting
Generate reports on student performance.

Technology Stack

Java SE JDK
Core development platform for cross-platform support.

Swing GUI
Rich desktop UI components for interaction.

IDEs
IntelliJ IDEA or Eclipse for efficient coding.

Data Storage
Flat files like CSV or embedded databases for persistence.

Benefits

Centralized Storage

Accurate Data

Reporting

Efficiency

Better communication and streamlined processes boost productivity.

Real-World Uses

School Administration
Manages student records and attendance efficiently.

Teachers
Track student marks and performance trends.

Students
Access personalized academic information easily.

Institutions
Improve transparency and data accuracy.

Conclusion

- Streamlines student management processes effectively.

- User-friendly for both students and administrators.

- Scalable Java project with future integration potential.

- Supports maintaining organized academic records.

Thank You

We appreciate your attention and interest in this project.

Thank you.