JAVA PROJEGT

UNIVERSITY MANAGEMENT SYSTEM



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Welcome to UNIVERSITY
MANAGEMENT SYSTEM, the
comprehensive University
Management System designed
to streamline and revolutionize
academic and administrative
operations. Our mission is to
empower universities, colleges,
and educational institutions
with cutting-edge technology
that enhances efficiency,
transparency, and collaboration.





IMPORTANCE



A University Management System (UMS) is essential for modern educational institutions as it plays a pivotal role in streamlining administrative and academic processes.

- 1. Efficiency in Administrative Tasks
- 2. Centralized Data Management
- 3. Enhanced Student Experience
- 4. Data Security and Compliance





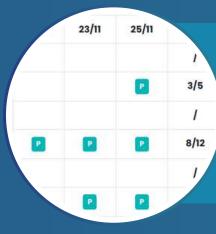
BEST PRACTICES



Student Management

The Student class is designed to:

- 1. Represent a student with specific details (like ID, name, and email).
- 2. Provide flexibility in creating or modifying student objects.



Attendence Management

The Attendance class models a student's attendance for a specific course on a particular date.

The class uses private fields to encapsulate data and provides public getter and setter methods to access and modify these fields.



Fee Structure

The FeeStructure class models the fee details of a course, calculating the total fee as the sum of tuition, lab, and library fees in the constructor. It uses private fields with public getters to encapsulate data, ensuring controlled access to fee details.

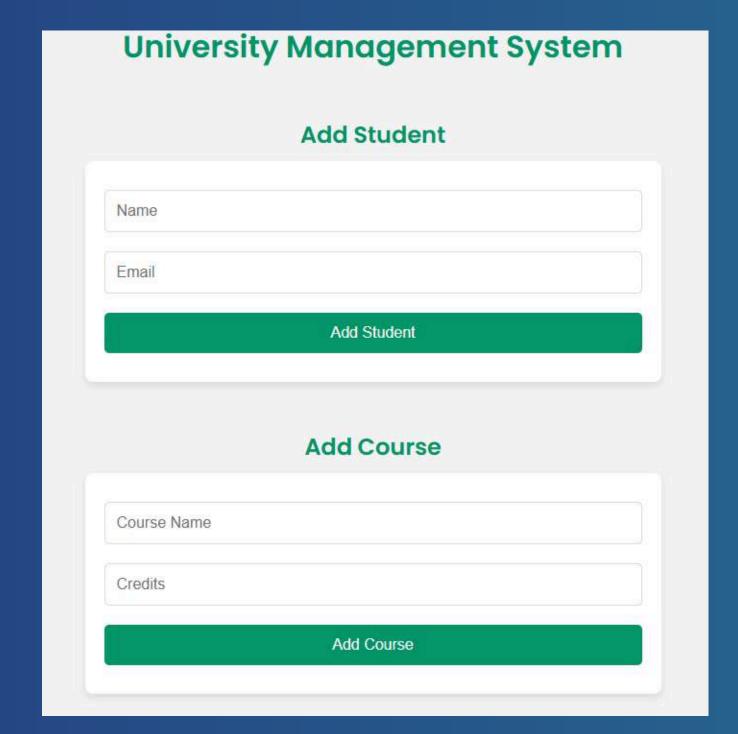


Course & Enrollment Management

Course Representation: The Course class models a course with attributes for its unique id, courseName, and the number of credits, allowing structured representation of course information.



User Interface



Enroll Stud	ent
Select Student	~
Select Course	•
Enroll	
Record Atten	dance
Select Student	~
Select Course	~
dd-mm-yyyy	n
dd-mm-yyyy Present	

Login Page

Signin Username Password Signin or signin with

Welcome back!

Welcome back! We are so happy to have you here. It's great to see you again. We hope you had a safe and enjoyable time away.

No account yet? Signup.

DATABASES AND SAMPLE SCHEMAS

STUDENTS

	id	name	email
>	1	Alice Smith	alice.smith@example.com
	2	Bob Johnson	bob.johnson@example.com
	3	Charlie Brown	charlie.brown@example.com
	4	Diana Prince	diana.prince@example.com
	5	Ethan Hunt	ethan.hunt@example.com
	NULL	HULL	NULL

COURSES

	id	course_name	credits
•	1	Mathematics	4
	2	Physics	3
	3	Chemistry	4
	4	(Chemistry ice	3
	5	Biology	3
	NULL	NULL	NULL

ATTENDANCE

	id	stu	dent_id	course_id	date	status
١	1	1		1	2024-11-20	Present
	2	1		3	2024-11-21	Absent
	3	2		2	2024-11-20	Present
	4	2		4	2024-11-22	Present
	5	3		1	2024-11-20	Absent
	6	3		5	2024-11-21	Present
	7	4	3	4	2024-11-22	Absent
	8	5		2	2024-11-20	Present
	HULL	HULL	li .	HULL	NULL	HULL

ENROLLMENTS

	id	student_id	course_id
١	1	1	1
	2	1	3
	3	2	2
	4	2	4
	5	3	1
	6	3	5
	7	4	4
	8	5	2
	RULL	HULL	NULL

FEES STRUCTURE

	id	course_name	tuition_fee	lab_fee	library_fee	total_fee
Þ	1	Mathematics	1000	200	150	1350
	2	Physics	1200	250	200	1650
	3	Chemistry	1100	300	180	1580
	4	Computer Science	1500	400	250	2150
	5	Biology	1300	350	220	1870
٠	NULL	HULL	NULL	NULL	NULL	NULL



SERVER



- 1.Servlet Container: Runs Java servlets and JSPs to handle dynamic web content.
- 2. Lightweight: A fast, efficient, and easy-to-use alternative to full Java EE servers
 - 3. Cross-Platform: Runs on any system with a JVM (Java Virtual Machine).
- 4. Extensible: Supports various plugins and extensions for features like security, connection pooling, and monitoring.

THANK YOU

