



SAVEETHA SCHOOL OF ENGINEERING
SAVEETHA INSTITUTE OF MEDICAL AND
TECHNICAL SCIENCES



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LIST OF EXPERIMENTS

COURSE CODE : CSA4001

COURSE NAME : MANAGEMENT INFORMATION SYSTEM

9) A college has more than thousand security persons, who are instructed to give duties at different places within the campus. Additionally, they also maintain a routine, which contains all information, such as Date, Duty Start Time, Duty End Time, and Place. Most importantly, all the places are covered by at least one security person. If a security person takes leave, manual entry is done against that person. Finally, at the end of a month, the security persons get paid for their duties, while considering the number of leaves as well. You can see that the manual calculation/operation is a heavy task for the security manager. Therefore, the objective is to build an Online security management system using class diagram through which entire security system within the campus can be controlled in an efficient manner.

AIM:

To design an **Online Security Management System** that automates duty scheduling, leave tracking, and payroll processing for security personnel within a college campus.

PROCEDURE:

- 1. Register Security Personnel**
 - Security staff details (ID, name, contact, shift preference) are stored in the system.
- 2. Schedule & Assign Duties**
 - The system automatically assigns security personnel to different locations based on a predefined routine.
- 3. Track Duty Timings & Attendance**
 - The system records check-in and check-out times for accurate work tracking.
- 4. Manage Leave Requests**
 - Security personnel can request leave, and the system updates the schedule accordingly.

5. Ensure Place Coverage

- The system ensures that all areas are covered by at least one security person at all times.

6. Automate Salary Calculation

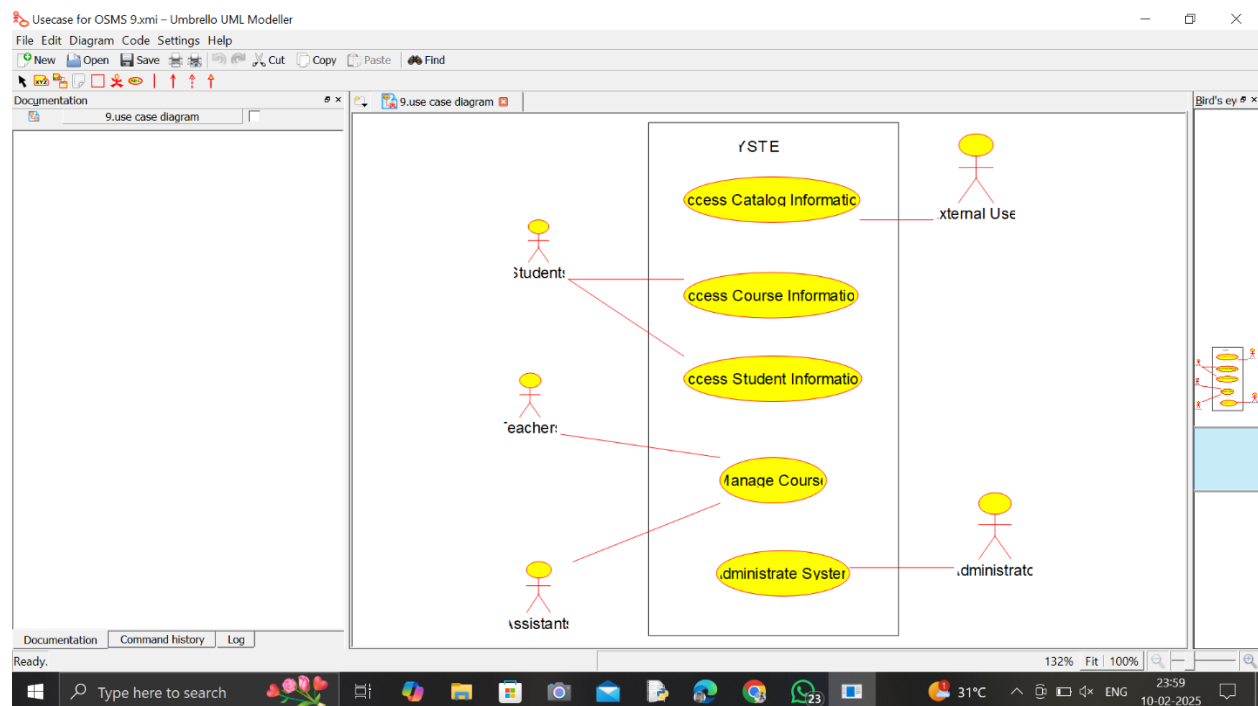
- At the end of the month, the system calculates salaries based on duty hours and leaves taken.

7. Generate Reports & Notifications

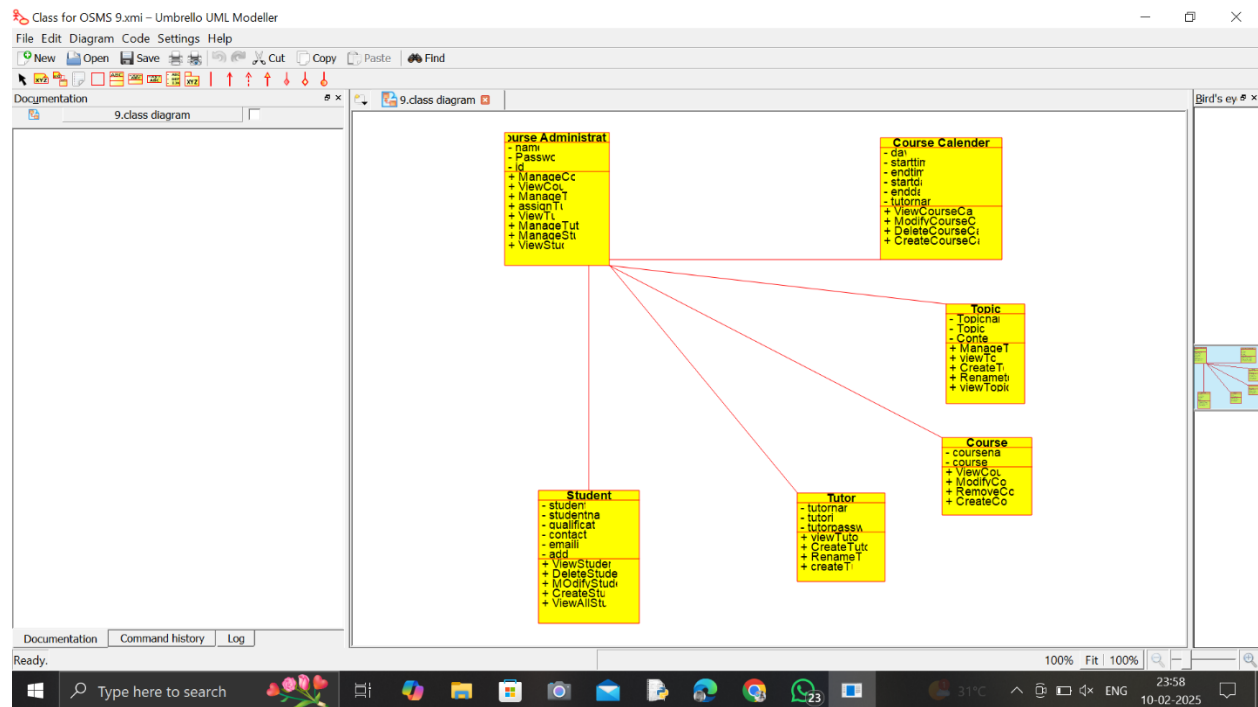
- The system provides reports on duty records, leave data, and salary breakdowns for management review.

OBSERVATION:

USECASE DIAGRAM:



CLASS DIAGRAM:



RESULT:

The **Online Security Management System** streamlines duty scheduling, leave tracking, and salary calculations, reducing manual workload. It ensures efficient security coverage and accurate payroll management.