

ON - DUTY

MANAGEMENT

SYSTEM

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TABLE OF CONTENTS

01

PROBLEM STATEMENT

02

PROPOSED SYSTEM

03

MODULES

04

TECHNOLOGY STACK

PROBLEM STATEMENT

The college needs an On Duty Management System to streamline the process of documenting, approving, and disseminating on-duty requests. The current manual system is time-consuming, prone to loss, and difficult to manage. The new system will automate request submissions, approvals, and notifications to relevant parties, enhancing efficiency, reducing errors, and ensuring timely communication.

PROPOSED SOLUTION



The college on-duty management system allows students to submit their details, attendance, and on-duty requests online. Teachers review and approve or disapprove these requests, followed by the Head of the Department's final decision. Once approved, the on-duty information becomes accessible to relevant staff and the hostel warden, streamlining the process and ensuring proper communication and documentation.

MODULES

STUDENTS

FACULTY

WARDEN

HOD



STUDENT

- Enter personal details.
- Enter overall attendance.
- Upload on-duty request (OD).
- Submit the on-duty request for approval.

STUDENT

Column Name	Data Type	Description
`RequestID`	INT	Primary key, unique identifier for each request
`StudentID`	INT	Foreign key, unique identifier for the student
`StudentName`	VARCHAR(100)	Name of the student
`Department`	VARCHAR(50)	Department of the student
`Attendance`	DECIMAL(5,2)	Overall attendance percentage of the student
`ODDate`	DATE	Date for which the on-duty is requested
`ODReason`	TEXT	Reason for the on-duty request
`ODDocument`	VARCHAR(255)	File path or URL of the uploaded on-duty document
`TeacherApproval`	BOOLEAN	Status of teacher's approval (NULL for pending, TRUE for approved, FALSE for disapproved)
`HODApproval`	BOOLEAN	Status of Head of Department's approval (NULL for pending, TRUE for approved, FALSE for disapproved)
`ResidenceType`	VARCHAR(10)	Indicates if the student is a day scholar or hosteller ('Day Scholar' or 'Hosteller')
`RequestTimestamp`	TIMESTAMP	Timestamp when the request was submitted

FACULTY

- Review submitted on-duty requests (ODs).
- Approve or disapprove each on-duty request.
- Provide feedback or comments if necessary.

FACULTY

Column Name	Data Type	Description
`ActionID`	INT	Primary key, unique identifier for each action
`RequestID`	INT	Foreign key, unique identifier for the on-duty request
`TeacherID`	INT	Foreign key, unique identifier for the teacher
`ApprovalStatus`	BOOLEAN	Approval status (TRUE for approved, FALSE for disapproved)
`Comments`	TEXT	Optional comments or feedback from the teacher
`ActionTimestamp`	TIMESTAMP	Timestamp when the action was taken

WARDEN

- Access approved on-duty requests.
- Review details of hostel students' on-duty requests.
- Record any relevant notes or comments if necessary.

WARDEN

Column Name	Data Type	Description
`ActionID`	INT	Primary key, unique identifier for each action
`RequestID`	INT	Foreign key, unique identifier for the on-duty request
`WardenID`	INT	Foreign key, unique identifier for the warden
`Notes`	TEXT	Optional notes or comments from the warden
`ActionTimestamp`	TIMESTAMP	Timestamp when the action was taken

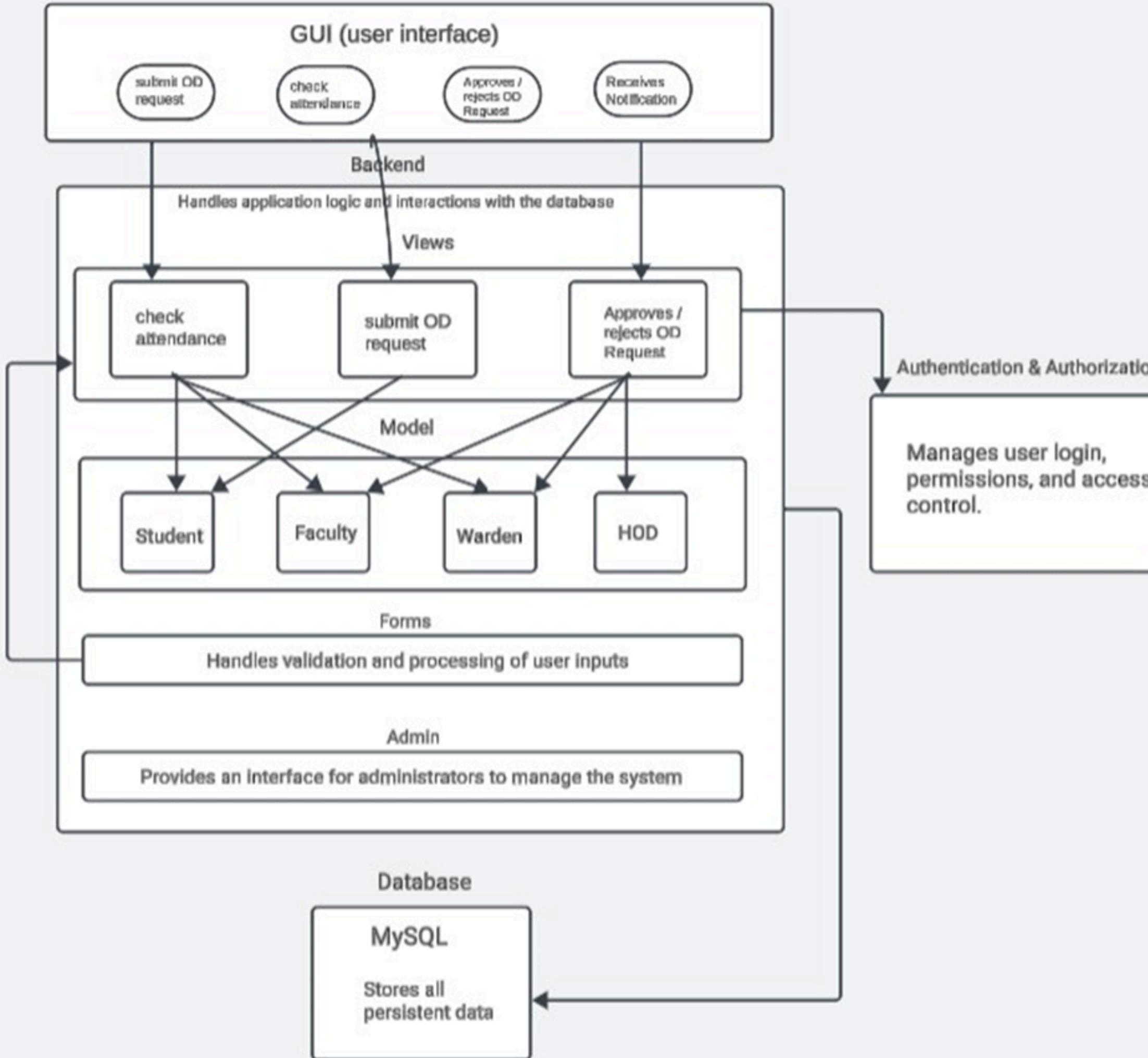
HOD

- Review on-duty requests forwarded by teachers.
- Approve or disapprove each on-duty request.
- Provide feedback or comments if necessary.
- Forward the final decision to relevant staff and the warden.

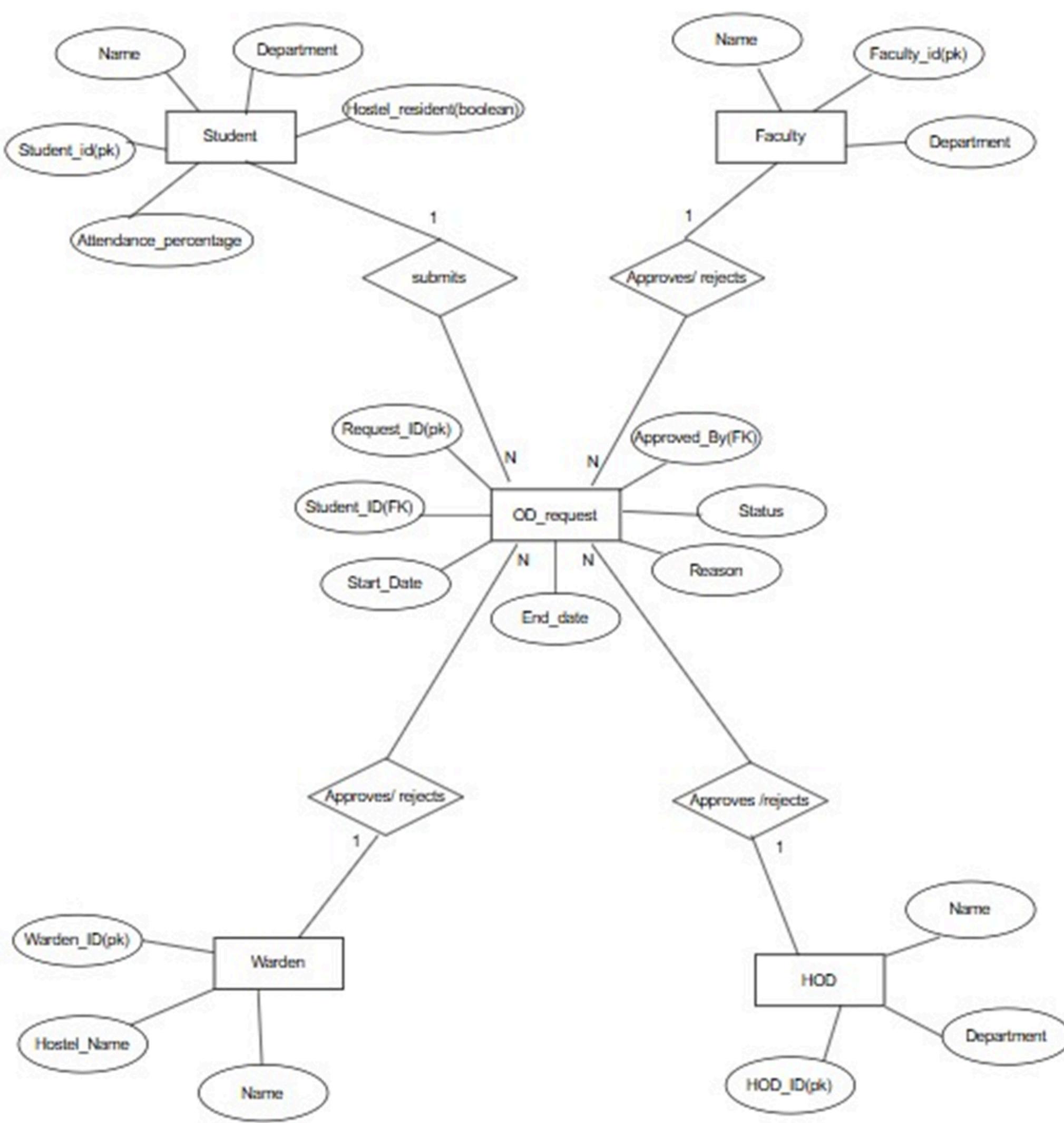
HOD

Column Name	Data Type	Description
`ActionID`	INT	Primary key, unique identifier for each action
`RequestID`	INT	Foreign key, unique identifier for the on-duty request
`HODID`	INT	Foreign key, unique identifier for the HOD
`ApprovalStatus`	BOOLEAN	Approval status (TRUE for approved, FALSE for disapproved)
`Comments`	TEXT	Optional comments or feedback from the HOD
`ActionTimestamp`	TIMESTAMP	Timestamp when the action was taken

client interface



ARCHITECTURE DIAGRAM



ER DIAGRAM

TECHNOLOGY STACK

**PROGRAMMING
LANGUAGE**
PYTHON

**WEB
FRAMEWORK**
**TKINTER
IN
PYTHON**

DATABASE
MYSQL

**THANK
YOU**