## matrons

- matron_id : int
- first_name : string
- second_name : string
- birth_date :date
- password : string
- email : string
- city : string

+ edit_profile_details() :void

## ratings

- rating_id :int
- rating :int
- comments :string
- created_at :datetime

+ give_ratings() :void
+ view_ratings() :void

## suppliers

- supplier_id :int
- supplier_name :string
- contact :int
- created_at :datetime
- username :string
- password :string
- category :enum

+ add_supplier() :void
+ update_supplier() :void
+ delete_supplier() :void
+ view_suppliers() :void
+ edit_profile_details() :void

## inventory

- item_id :int
- last_updated :date
- quantity :int
- category :enum
- item_price: double
- item_name: string

+ add_item() :void
+ update_item() :void
+ delete_item() :void
+ generate_reports() :void
+ search_item() :void

1
1
1
1
1
1

check 1

1  rate  *

1

add

1  1  1  1  1

*

have  *

add

1

request

accept

update

# Hostel Management System - Class diagram

**add**

**check**

**add**

**have**

**feedback_by**

**checked_by**

## supplier_contract

- supplier_contract_id :int
- contract_start_date :date
- contract_end_date :date
- contact_duration :int

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+ add_contract_details() :void
+ delete_contract_details() :void
+ update_contract_details() :void
+ view_contract_details() :void

## meal_plans

- meal_id :int
- description :string
- meal_name :string
- created_by :string
- created_at :datetime
- date :date

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+ add_mealplan() :void
+ update_mealplan() :void
+ delete_mealplan() :void
+ view_mealpan() :void
+ generate_report() :void

## meal_feedback

- feedback_id :int
- rating :int
- created_by :string
- submitted_at :datetime
- comments :string

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+ submit_meal_feedback() :void
+ view_meal_feedback() :void

## residents

- id :int
- resident_name :string
- resident_room_no:int
- resident_id :string
- resident_contact :int
- resident_form :string
- resident_DOB:date
- email :string
- created_at :datetime
- username :string
- password :int
- status :enum
- profile_picture :string

---

+ add_resident() :void
+ update_resident() :void
+ delete_resident() :void
+ edit_profile_details() :void

**checked_by**

**accept**

**make**

**update**

**check**

## admin

- admin_id: int
- admin_name: string
- username: string
- email: string
- password : string
- created_at : datetime

+ edit_profile_details() :void

## events

- event_id :int
- description :string
- start_date :date
- end_date :date
- organizer :string
- title :string
- start_time :time
- event_place :string

+ add_event() :void
+ update_event() :void
+ delete_event() :void
+ view_event() :void
+ generate_report() :void

## employees

- employee_id :int
- name :string
- phone :string
- emp_addr_city :string
- emp_addr_street :string
- emp_addr_province :string
- gender:string
- email :string
- leave_balance :int
- created_at :datetime
- national_id :string
- password :string
- position :string
- status : boolean

+ add_employee() :void
+ update_employee() :void
+ delete_employee() :void
+ view_employee() :void
+ generate_employee_reports() :void
+ edit_profile_details() :void

## employee_attendance

# emp_attendance_id :int

## employee_daily_checkin

- daily_in_time :date

+ update_in_time() : void

## employee_daily_checkout

- daily_out_time : date

+ update_out_time() : void

update

add

record   1

1

1

1

1

1

1

1

*

1

*

1

1

approve

renew

add

have

apply

approve

## employee_vacancies

- vacancy_id :int
- job_title :string
- department :string
- status :enum
- created_at :datetime

+ add_employee_Vacancy() :void
+ update_employee_Vacancy() :void
+ delete_employee_Vacancy() :void
+ view_employee_Vacancy() :void

## guests

- guest_id:int
- email :string
- national_id: string
- name:string
- phone : string
- password : string
- created_at : datetime

+ register() :void
+ view_resident_rules() :void
+ view_employee_rules :void

## rooms

- room_id :int
- room_number :string
- capacity : int
- status : enum
- created_at : datetime

+ update_room_vacancy() :void
+ add_room_Vacancy() :void
+ delete_room_Vacancy() :void
+ view_room_Vacancy() :void

check    1          1    check    *        *                              1
*                                                                              apply_by

1

apply_by

*

## job_applications

- application_id :int
- contact_phone :string
- contact_email :string
- applicant_name :string
- application_date :datetime
- cover_letter :string
- status :string

+ approve_employee_application() :void
+ decline_employee_application() :void
+ fill_employee_application() :void
+ submit_employee_application() :void

*

*

**applicants**

- - application_id :int
- - phone :string
- - email :string
- - national_id : string
- - created_at :datetime
- - age : int
- - username : string
- - password : string
- - name :string
- - profile_picture :string
- - resident_form :string
- - application_date :date
- - status :enum
- - room_id :int

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- + approve_resident_application() :void
- + decline_resident_application() :void
- + fill_resident_application() :void
- + submit_resident_application() :void
- + view_waiting_list() :void

**orders**

- - order_id :int
- - quantity :int
- - item_name :string
- - status :enum
- - order_date :datetime
- - delivery_date :date
- - bill_amount :double

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- + request_order() :void
- + view_order() :void
- + approve_order() :void
- + decline_order() :void
- + pay_for_order() :void
- + generate_order_report() :void

**transactionss**

- - trant_id :int
- - trant_payment_reciept :string
- - amount : double
- - trant_month :string
- - trant_payment_date : date

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- + make_transactions() :void
- + view_transaction_history() :void
- + generate_transaction_e_reciept() :void
- + generate_transaction_report() :void

check

**resident_checking_checkouts**

- - checking-chekout_id :int
- - check_out_date :date
- - check_in_date :date
- - status :enum
- - created_at :datetime

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- + update_checkout_date():void
- + update_checkin_date() :void
- + view_checkin_checkout_history() :void
- + view_checkin_checkout_requests() :void
- + accept_request() :void
- + decline_request() :void

## matron_vacancys

- vacancy :int
- first_name :string
- second_name :string
- birth_date :date
- city :string
- password :string
- status :enum
- created_at :datetime

---

+ view_matron_applications:void
+ approve_matron_applications () :void
+ delete_matron_applications() :void

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## salary

- salary_id :int
- base_salary :double
- deductions :double
- total_salary :double
- allowances :double
- salary_date :date
- created_at :datetime

---

+ delete_payroll_details () :void
+ update_payroll_details() :void
+ add_payroll_details() :void
+ view_payroll_details() :void
+ view_paysheet() :void

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## leave_applications

- application_id :int
- reason :string
- status :string
- start_date :date
- end_date :date
- created_at :datetime

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+ apply_leave() :void
+ approve_leave() :void
+ decline_leave() :void
+ generate_leave_report() :void
+ view_leave_status() :void

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## social_service

- service_id:int
- service_description :string
- service_date :date
- service_city :string
- service_street :string
- service_province :string

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+ add_services() :void
+ update_service() :void
+ delete_service() :void
+ view_service() :void

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*    *    1    *    *

*

**approve**

**add**