Daylight Daycation Resort Management System (DRMS)

Project Documentation

1. Introduction

The Daylight Daycation Resort Management System (DRMS) is designed to streamline the operations of daycation resorts, offering a one-day recreational experience to families, industrial workers, club teams, and students. The system encompasses several key modules—User, Administrative, and Staff—each responsible for specific functions ranging from user registration and booking to staff management and financial oversight.

This documentation provides a detailed description of the system's database schema, represented through a series of tables. Each table corresponds to the classes and relationships defined in the system's class diagram, ensuring a structured and efficient approach to managing the resort's operations.

2. Database Tables

2.1 Users Table

Purpose: Stores information about all users, including both guest and registered users.

Column Name	Data Type	Description
User id	INT	Primary key

username	VARCHAR	Unique username for the user
email	VARCHAR	User's email address
password	VARCHAR	Hashed password
first_name	VARCHAR	User's first name
last_name	VARCHAR	User's last name
phone_number	VARCHAR	User's contact number

Column Name	Data Type	Description
`user_typ e`	ENUM	

2.2 Bookings Table

- **Purpose**: Manages booking details made by registered users

Column Name	Data Type	Description
`booking_ id`	INT	Primary key
user_id	INT	Foreign key referencing `Users` table
date	DATE	Booking date
time_slot	TIME	

		Time slot for the booking
package_id	INT	reign key referencing
number_of_adults	INT	Number of adults for the booking
number_of_children	INT	Number of children for the booking
special_reques ts	Text	Any special Requests

2.3 Memberships Table

Purpose: Stores and manages user membership plans.

Column Name	Data Type	Description

	INT	Primary key
`membership_id`		
user_id	INT	Foreign key referencing `Users` table
plan_name	TEXT	Name of the membership plan
start_date	DATE	Membership start date
`end_date`	DATE	Membership end date
status	ENUM	Membership Status

2.4 Profiles Table

Purpose: Contains user profile details and preferences.

Column Name	Data Type	Description
profile_id	INT	Primary key
user_id	INT	Foreign key referencing Users table
address	TEXT	User's address
preferences	TEXT	User notification preferences
reservation_history	TEXT	History of users Reservation's

2.5 Feedback Table

Purpose: Collects feedback and support requests from users.

Column Name	Data Type	Description
feedback_id	INT	Primary key
user_id	INT	Foreign key referencing users table
message	TEXT	Feedback message from the user
rating	INT	Rating provided by the user (1-5)
submitted_at	DATETIME	Date time feedback submitted

2.6 Admin Table

Purpose: Manages information related to admin users.

Column Name	DataType	Description

Column Name	Data Type	Description
admin_id	INT	Primary key
user_id	INT	Foreign key referencing Users table
role	VARCHAR	ole of the admin (e.g., manager, HR)
department	VARCHAR	Departments

2.7 Staff Table

Purpose: Stores information about resort staff.

Column Name	Data Type	Description
staff_id	INT	Primary key

first_name	VARCHAR	Staff member's first name
last_name	VARCHAR	Staff member's last name
role	VARCHAR	staff member (e.g., FrontDesk, Houseke
department	VARCHAR	Department the staff belongs to
salary	DECIMAL	Staff Members Salary

2.8 Departments Table

- **Purpose: Defines various departments within the resort.**

Column Name	Data Typ	Description
package_id	INT	

		Primary key
department_name	VARCHAR	Name of the department

2.9 Packages Table

- **Purpose: Details the various resort packages available for booking.**

Column Name	Data Type	Description
package_id	INT	Primary key
package_name	VARCHAR	Name of the package
description	TEXT	Detailed description of the package
price	DECIMAL	Price of the package

availability	BOOLEAN	Availability status of the package

2.10 Salaries Table

- **Purpose: Manages salary details for staff members.**
- **Purpose: Details the various resort packages available for booking.**

Column Name	Data Type	Description
salary_id	INT	Primary key
staff_id	INT	ı key referencing Staff
base_salary	DECIMAL	

		Base salary of the staff member
bonuses	DECIMAL	s earned by the staff men
deductions	DECIMAL	Deductions from the salary
net_salary	DECIMAL	Final salary after deductions and bonuses

2.11 Notifications Table

- **Purpose: Stores notifications sent to users and staff.**

Column Name	Data Type	Description

	INT	Primary key
notification_id	INT	Primary key
user_id	INT	referencing (nullable)
staff_id	DECIMAL	ı key referencing staff ıullable)

Column Name	Data Type	Description
message	DECIMAL	ontent of the otification
sent_at	DECIMAL	Timestamp of when the notification was sent
net_salary	DECIMAL	Status of the notification (e.g., sent, pending)

2.12 Records Table

● **Purpose: Maintains records of users and staff.**

Column Name	Data Type	Description

record_id	INT	Primary key
user_id	INT	ıser table (nullable)
staff_id	INT	ı key referencing able (nullable)

record_type	INT	d
details	TEXT	Detailed information about the record

Conclusion

The Daylight Daycation Resort Management System (DRMS) is an integrated solution that efficiently handles various aspects of resort operations. The database schema outlined in this document provides a solid foundation for managing users, bookings, memberships, staff, and financial records, ensuring that the resort's operations run smoothly. By maintaining a clear and well-structured database, the system can effectively support the needs of guests, staff, and administrators, contributing to an exceptional daycation experience.