**Name: Purbasha Pan**

**NUID: 002653065**

**Topic: Purs And Furs (Pet Care Management System)**

1. **SUMMARY AND MOTIVATION:**

As an owner of two pets, I have personally experienced the challenges of managing pet care. In my home country, it was difficult to find a single place that offered all of the services and products that my pets needed. I often had to go to multiple places to get everything done, and it was time-consuming and frustrating.

As the world becomes more connected and technology advances, the way we interact with our pets is also changing. More and more people are turning to technology to help manage their pet's care and make their lives easier. This is where the concept of a pet care management system comes in.

A pet care management system is a software application that helps pet owners manage their pet's care. It can include features like online booking of pet services, ordering pet products, scheduling reminders for vet appointments, and tracking pet health records. The goal of a pet care management system is to simplify the process of caring for a pet by centralizing all of the pet's needs in one place.

With this in mind, I created database for pet care management system that would make it easier for pet owners like myself to manage their pet's care. My system allows users to book any kind of service for their pets, including trimming hair/nails, ear cleaning, spa treatments, and baths. They can book these services based on the type of pet they own, whether it's a cat, dog, or fish.

In addition to booking services, my pet care management system also allows customers to purchase pet products like toys and food online. Customers can select the products they need based on the kind of pet they have, making it easy to find the right products for their pet's needs. The system records the type of payment and the total amount paid by a particular user, as well as the order details of the product order and booked services.

This is a schema for a pet shop management system that includes various tables related to the administration, employees, orders, payments, services, and bookings of the pet shop.

- The Admin table stores information about the administrators, including their names, login credentials, contact information, and associated pet shop.
- The PetShop table contains information about the pet shop's location, contact information, and the administrator responsible for managing it.
- The Employees table stores information about the employees working at the pet shop, including their names, contact information, and associated services and pet shop.
- The EmpSalary table contains information about employee salaries, including the date, salary amount, and associated employee and pet shop.
- The Payments table stores information about payments made for services rendered, including the date, total amount, associated order, user, and pet shop.
- The PaymentType table contains information about the different types of payment methods available.
- The UserDetail table stores information about the pet shop's customers, including their names, login credentials, contact information, and associated pet shop.

- The Orders table contains information about the orders placed by customers, including the date, status, and associated customer and pet shop.
- The OrderDetail table stores information about the items included in each order, including the quantity, associated order, and type of item (food, toy, or shelter).
- The Toy and Food tables store information about the products sold at the pet shop, including the name, price, quantity, and associated pet category.
- The PetCategory table contains information about the different types of pets and their associated categories.

- The Booking table stores information about the services booked by customers, including the date, time, status, and associated customer and service.
- The Services table contains information about the services offered by the pet shop, including the price, type, and associated pet category and pet shop.

Overall, this schema provides a comprehensive view of the various aspects of a pet shop management system, from customer and employee management to inventory and service management.

One of the key benefits of a well-designed pet care management system database is that it can significantly improve the quality of pet care. By centralizing all of a pet's needs in one place, the system can ensure that pets receive timely medical treatment, vaccinations, and grooming services. This can lead to better outcomes for pets and help prevent serious health issues from developing.

Another benefit of a pet care management system is that it can improve communication between pet owners and care providers. The system can provide pet owners with regular updates on their pet's health and well-being, as well as alerts for upcoming vet appointments and other important events. This can help pet owners feel more connected to their pets and more informed about their care.

Developing a pet care management system database can be a challenging and rewarding project for a database management student. It involves designing a user-friendly interface, creating a database schema, implementing data validation and security measures, and testing the system for functionality and performance. Students can apply their database management skills to real-world problems and contribute to the pet care industry's advancement.

One important aspect of developing a pet care management system is ensuring that it is secure and protects users' personal and financial information. The system should be designed to prevent unauthorized access, and it should use encryption and other security measures to protect sensitive data.

In conclusion, a pet care management system is an important tool for pet owners who want to simplify and improve their pet's care. By centralizing all of

a pet's needs in one place, the system can make it easier for pet owners to manage their pet's care and ensure that their pet receives the best possible treatment. Developing a pet care management system database can be a challenging and rewarding project for a database management student, and it can contribute to the advancement of the pet care industry.

## 2. USE CASES :

Here are some use cases for a pet care management system database:

**Shop Management**: The database stores information about the pet shops, including the shop's location, contact information, and the shop's admin information. This can help the pet shop owner make informed decisions about the business and ensure that it is running smoothly.

**Pet Services Management**: The database can be used to manage pet services such as trimming hair/nails, ear cleaning, spa, and bath. It can keep track of which services are available, the pet category they apply to, their cost, and the employees who provide them.

**Employee Management**: The database can help keep track of employee information, such as their personal details and the services they provide. This can help the pet shop owner ensure that the employees are properly compensated and that the services are being provided in a timely and efficient manner.

**Employee Salary Management**: The database also manages the employees and their salaries and the dates on which it is given to the employee.

**Products Management**: The database can help manage the inventory of pet products such as toys and food. It can keep track of the quantity of each item, their price, and the pet category they apply to. This can help ensure that the pet shop owner always has enough inventory to meet demand.

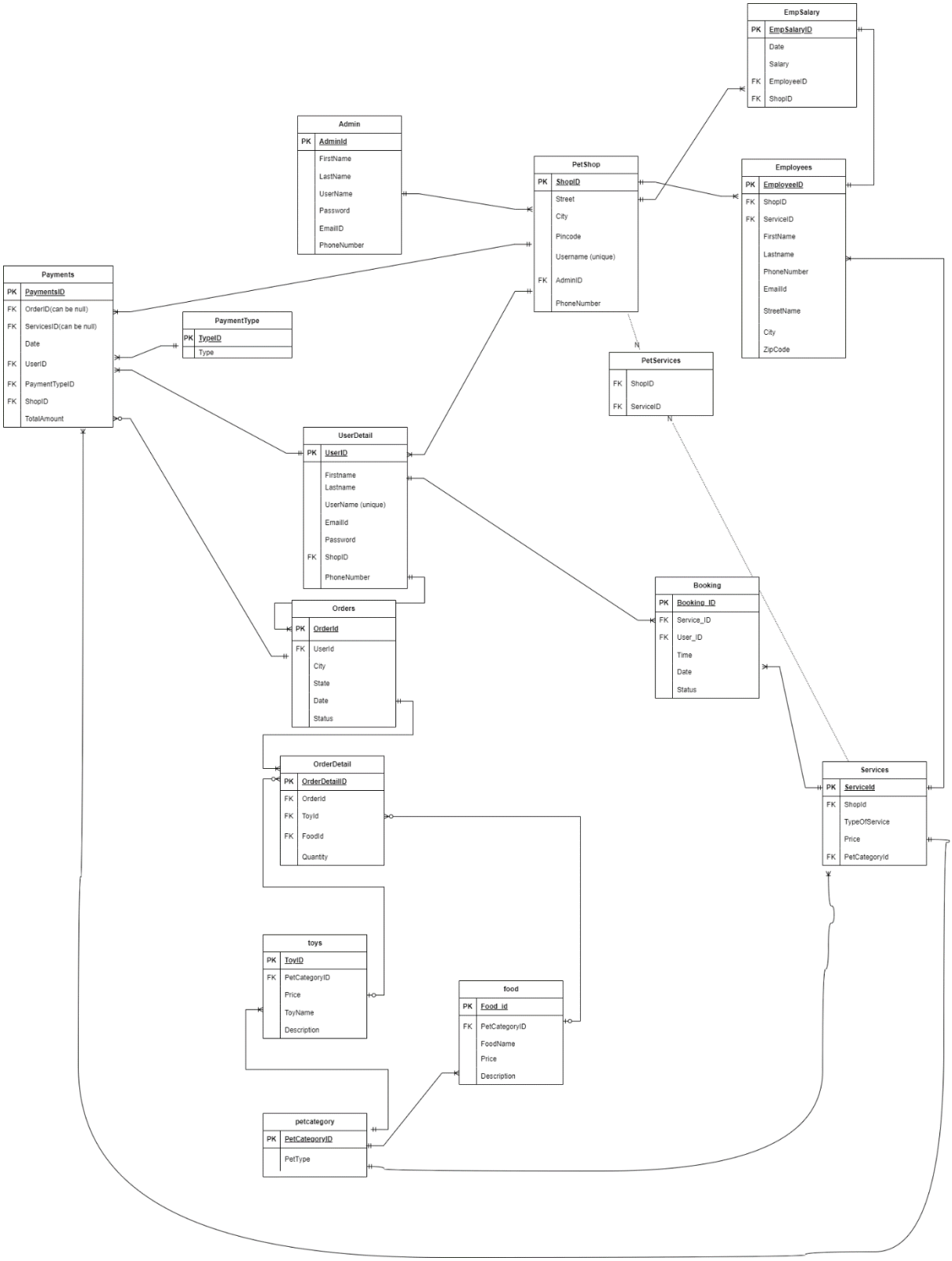
**User Management**: The database can help manage user information, including their personal details, pet ownership information. This can help the pet shop owner understand their customers better, and provide personalized recommendations.

**Order Management**: The database can help manage orders placed by customers. It can keep track of the products ordered, their quantity, the date of the order, the payment method, and the delivery status. This can help the pet shop owner ensure that the orders are fulfilled in a timely and efficient manner. Users can purchase pet products such as food and toys through the Orders and OrderDetail tables. The Orders table stores the details of each order, such as the user who made the order, the shop where the order was made, and the total amount paid. The OrderDetail table stores the details of the individual items ordered, such as the quantity, product ID, and price.

**Payment Management**: The database can help manage payments made by customers. It can keep track of the type of payment, the amount paid, the order details, and the customer information. This can help the pet shop owner ensure that all payments are processed accurately and in a timely manner.

**Booking Management**: The database can help manage the booking of pet services by customers. It can keep track of the type of service booked, the time and date of the booking, the status of the booking, and the customer information. This can help the pet shop owner ensure that the services are scheduled efficiently, and that there is no overbooking or double-booking of services.

3. ERD Diagram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FK ShopID
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PK AdminId
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UserName
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EmailID
PhoneNumber
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PK ShopID
Street
City
Pincode
Username (unique)
FK AdminID
PhoneNumber
Employees
PK EmployeeID
FK ShopID
FK ServiceID
FirstName
Lastname
PhoneNumber
EmailId
StreetName
City
ZipCode
Payments
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FK ServicesID(can be null)
Date
FK UserID
FK PaymentTypeID
FK ShopID
TotalAmount
PaymentType
PK TypeID
Type
PetServices
FK ShopID
FK ServiceID
UserDetail
PK UserID
Firstname
Lastname
UserName (unique)
EmailId
Password
FK ShopID
PhoneNumber
Booking
PK Booking_ID
FK Service_ID
FK User_ID
Time
Date
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Orders
PK OrderId
FK UserId
City
State
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