Pet Care Management System

Output:

```
Pet Care Management System
1. Add Pet
2. Track Pet Health Records
3. Set Vaccination Reminders
4. Manage Grooming Appointments
5. Display Pet Information
6. Exit
```

```
Enter your choice: 1
Enter pet's name: Mittu
Enter pet's species: Cat
Enter pet's age: 5

Added
```

```
Enter your choice: 2
Enter pet's name: Mittu
Enter health record date (YYYY-MM-DD): 2024-09-12
Enter health record description: Good
Health Condition updated
```

```
Enter your choice: 3
Enter pet's name: Mittu
Enter vaccination date (YYYY-MM-DD): 2024-12-01
Enter vaccine name: Rabies
Set vaccination reminder
```

```
Enter your choice: 4
Enter pet's name: Mittu
Enter grooming appointment date (YYYY-MM-DD): 2024-12-05
Enter grooming service: Drying
Set grooming appointment
```

```
Enter your choice: 5
Enter pet's name: Mittu
Name: Mittu, Species: Cat, Age: 5
Health Records:
 - 2024-09-12: Good
Vaccination Reminders:
 - 2024-12-01: Rabies
Grooming Appointments:
 - 2024-12-05: Drying
```

```
Enter your choice: 6
Exiting..
```

Source Code:

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#define MAX_PETS 100
#define MAX_RECORDS 100
#define MAX_REMINDERS 100
#define MAX_APPOINTMENTS 100
typedef struct {
    char date[11];
    char description[100];
} HealthRecord;
```

```
typedef struct {
    char date[11];
    char vaccine[50];
} VaccinationReminder;
typedef struct {
    char date[11];
    char service[50];
} GroomingAppointment;
typedef struct {
    char name[50];
    char species[50];
    int age;
    HealthRecord healthRecords[MAX_RECORDS];
    int healthRecordCount;
    VaccinationReminder vaccinationReminders[MAX_REMINDERS];
    int vaccinationReminderCount;
    GroomingAppointment
groomingAppointments[MAX_APPOINTMENTS];
    int groomingAppointmentCount;
} Pet;
Pet pets[MAX_PETS];
int petCount = 0;

void addPet() {
    if (petCount >= MAX_PETS) {
        printf("Maximum number of pets reached.\n");
        return;
    }
```

```
    printf("Enter pet's name: ");
    scanf("%s", pets[petCount].name);
    printf("Enter pet's species: ");
    scanf("%s", pets[petCount].species);
    printf("Enter pet's age: ");
    scanf("%d", &pets[petCount].age);
    pets[petCount].healthRecordCount = 0;
    pets[petCount].vaccinationReminderCount = 0;
    pets[petCount].groomingAppointmentCount = 0;
    petCount++;
}
void addHealthRecord() {
    char petName[50];
    printf("Enter pet's name: ");
    scanf("%s", petName);
    for (int i = 0; i < petCount; i++) {
        if (strcmp(pets[i].name, petName) == 0) {
            if (pets[i].healthRecordCount >= MAX_RECORDS) {
                printf("Maximum number of health records reached.\n");
                return;
            }
            printf("Enter health record date (YYYY-MM-DD): ");
            scanf("%s",
pets[i].healthRecords[pets[i].healthRecordCount].date);
            printf("Enter health record description: ");
            scanf(" %[^\n]",
pets[i].healthRecords[pets[i].healthRecordCount].description);
            pets[i].healthRecordCount++;
```

```
            return;
        }
    }
    printf("Pet not found.\n");
}
void setVaccinationReminder() {
    char petName[50];
    printf("Enter pet's name: ");
    scanf("%s", petName);
    for (int i = 0; i < petCount; i++) {
        if (strcmp(pets[i].name, petName) == 0) {
            if (pets[i].vaccinationReminderCount >= MAX_REMINDERS) {
                printf("Maximum number of vaccination reminders
reached.\n");
                return;
            }
            printf("Enter vaccination date (YYYY-MM-DD): ");
            scanf("%s",
pets[i].vaccinationReminders[pets[i].vaccinationReminderCount].date);
            printf("Enter vaccine name: ");
            scanf("%s",
pets[i].vaccinationReminders[pets[i].vaccinationReminderCount].vaccin
e);
            pets[i].vaccinationReminderCount++;
            return;
        }
    }
    printf("Pet not found.\n");
}
```

```
void addGroomingAppointment() {
   char petName[50];
   printf("Enter pet's name: ");
   scanf("%s", petName);
   for (int i = 0; i < petCount; i++) {
      if (strcmp(pets[i].name, petName) == 0) {
         if (pets[i].groomingAppointmentCount >=
MAX_APPOINTMENTS) {
            printf("Maximum number of grooming appointments
reached.\n");
            return;
         }
         printf("Enter grooming appointment date (YYYY-MM-DD): ");
         scanf("%s",
pets[i].groomingAppointments[pets[i].groomingAppointmentCount].dat
e);
         printf("Enter grooming service: ");
         scanf("%s",
pets[i].groomingAppointments[pets[i].groomingAppointmentCount].ser
vice);
         pets[i].groomingAppointmentCount++;
         return;
      }
   }
   printf("Pet not found.\n");
}

void displayPetInfo() {
```

```
    char petName[50];
    printf("Enter pet's name: ");
    scanf("%s", petName);
    for (int i = 0; i < petCount; i++) {
        if (strcmp(pets[i].name, petName) == 0) {
            printf("Name: %s, Species: %s, Age: %d\n", pets[i].name,
pets[i].species, pets[i].age);
            printf("Health Records:\n");
            for (int j = 0; j < pets[i].healthRecordCount; j++) {
                printf(" - %s: %s\n", pets[i].healthRecords[j].date,
pets[i].healthRecords[j].description);
            }
            printf("Vaccination Reminders:\n");
            for (int j = 0; j < pets[i].vaccinationReminderCount; j++) {
                printf(" - %s: %s\n", pets[i].vaccinationReminders[j].date,
pets[i].vaccinationReminders[j].vaccine);
            }
            printf("Grooming Appointments:\n");
            for (int j = 0; j < pets[i].groomingAppointmentCount; j++) {
                printf(" - %s: %s\n", pets[i].groomingAppointments[j].date,
pets[i].groomingAppointments[j].service);
            }
            return;
        }
    }
    printf("Pet not found.\n");
}

void mainMenu() {
```

```
int choice;
while (1) {
    printf("\nPet Care Management System\n");
    printf("1. Add Pet\n");
    printf("2. Manage Pet Care Routines\n");
    printf("3. Track Pet Health Records\n");
    printf("4. Set Vaccination Reminders\n");
    printf("5. Manage Grooming Appointments\n");
    printf("6. Display Pet Information\n");
    printf("7. Exit\n");
    printf("Enter your choice: ");
    scanf("%d", &choice);
    switch (choice) {
        case 1:
            addPet();
            break;
        case 2:
            addHealthRecord();
            break;
        case 3:
            addHealthRecord();
            break;
        case 4:
            setVaccinationReminder();
            break;
        case 5:
            addGroomingAppointment();
```

```
            break;
        case 6:
            displayPetInfo();
            break;
        case 7:
            exit(0);
        default:
            printf("Invalid choice. Please try again.\n");
      }
   }
}

int main() {
   mainMenu();
   return 0;
}
```