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## **SOFTWARE REQUIREMENTS SPECIFICATION(SRS)**

**Instructor**  
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### **TEAM MEMBERS**

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## **Project Name: System for Rehabilitation of Animals**

### **1) Introduction**

**1.1) Purpose:** The purpose of this document is to record the requirements for the development of the "System for Rehabilitation of Animals," a web-based platform for facilitating the rehabilitation process for animals.

This document covers the functional and non-functional requirements for the development of this project.

**2) Description of the Project:** "The System for Rehabilitation of Animals" is a Web application which interacts with animal care providers and administrators and also deals with donation, adoption and shop. Which also consists of the databases used in animal care facilities.

#### **a) Product Features:**

a) **User Registration and Authentication:** Animal care Providers can register and log in securely.

#### **b) Animal Profiles:**

a) Profiles for the animals which are rehabilitated.

b) Record of Medical history, treatment Plans and Progress.

#### **c) Scheduling Appointment:**

a) Appointments can be scheduled on this website for veterinary care and also for rehabilitation.

### **2.1) User Classes and characteristics:**

a) **Animal Care Providers:** Veterinarians, animal caretakers and rehabilitation specialists.

b) **Administrators:** System administrators overseeing the functionality and data integrity.

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**Operating Environment:**The system will be accessible through modern web browsers and it will be hosted on a secure server with backups.

**Design and implementations:**The website will be developed using HTML,CSS,JAVASCRIPT for developing the interface and for the database SQL will be used and Apache Server will be used.

### 3)Functional Requirements:

3.1)**Description:**Animal care Providers should be able to register with the system and Securely log in.The Website Contains the list of animals that will be treated and the availability and also the time slots of the veterinarians for the animals available.Donation of the animals will be present.

#### 3.2)Inputs:

a)User Details:Which Includes name,email>Password.Veterinarians will be having a separate login page so that he will be having all the details regarding his Appointments.

#### 3.3)Outputs:

a)Confirmation of Successful registration or login.

### 4)Non-Functional Requirements:

#### 4.1)Performance:

- a)The System Should handle a minimum of Users.
- b)Response time for critical actions should be within minimum time.

#### 4.2)Security:

- a)All the users data will be kept encrypted.
- b)Access controls to ensure data privacy and prevent unauthorised access.

#### 4.3)Usability:

- a)The User interface will be user-friendly.

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#### **4.4)Availability:**

- a)24/7 Availability for customer access.
- b)Scheduled maintenance notifications for administrators.

#### **5)Interface Requirements:**

##### **5.1)Hardware Interface:**

- a)Web Server with sufficient Storage.
- b)Database server for the veterinarians details and animals Details.

##### **5.2)Software Interface:**

- a)Web Server Software(Apache).
- b)Database Management System(MYSQL).
- C)Browser Compatibility:Chrome,Firefox,Safari.

#### **6)Future Goals:**

- a)Donations for the website.
- b)Online consultation with doctors for general Questions for people that are far and not available for Physical appearance with the veterinarians.

#### **Work Done by:**

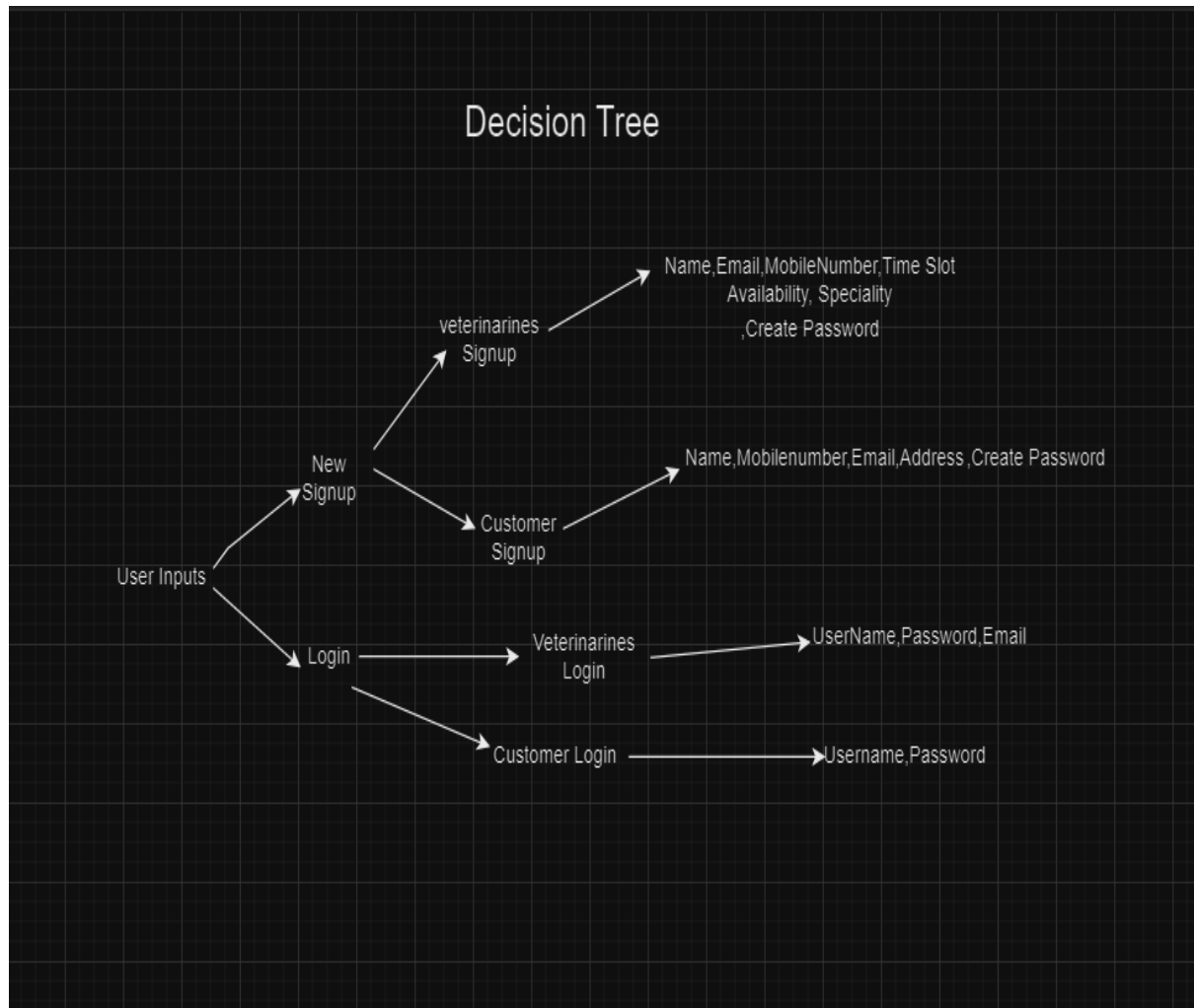
- a)Introduction by **Siddharth Gaurav(2101167)**
- b)Functional Requirements by **Pawar Sandeep(2101143)**
- c)Non-Functional Requirements and Interface Requirements by **TnvAbhiram(2101216)**

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## Decision Tree

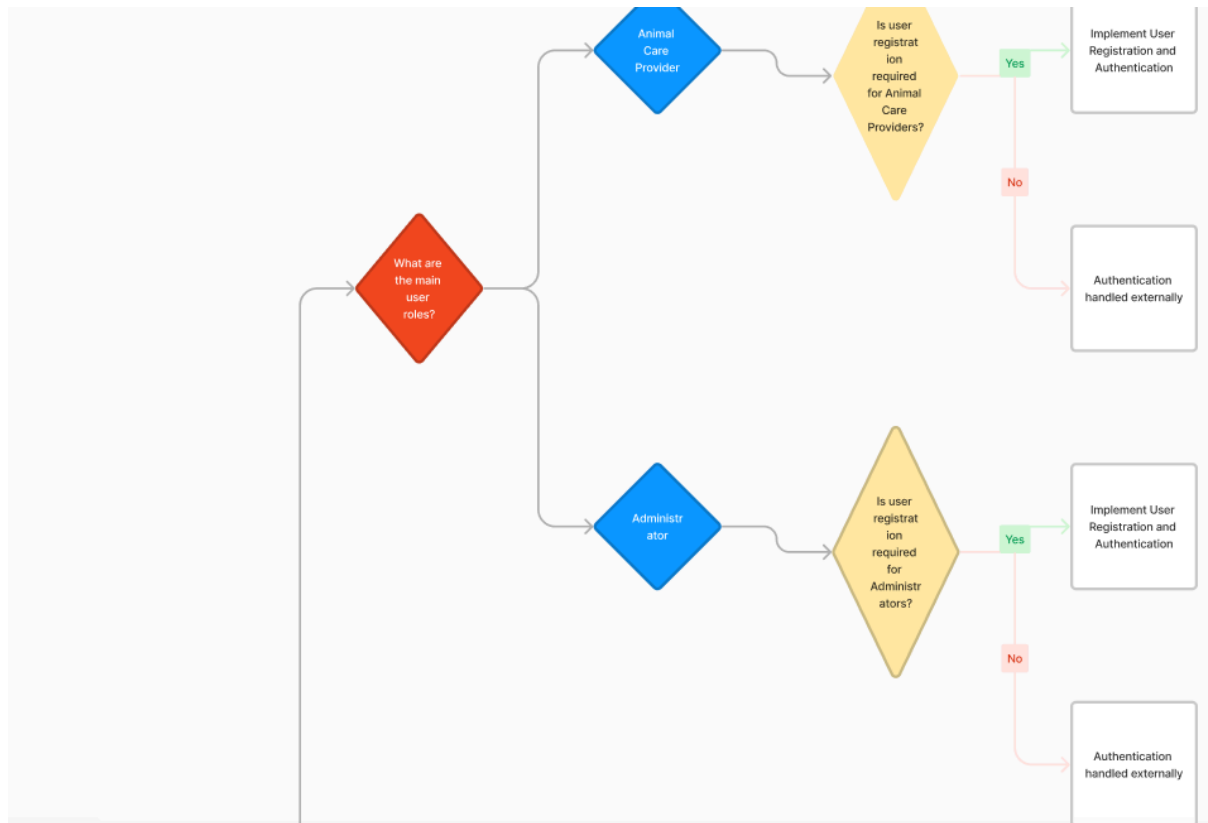
### Decision Tree for Signup and Login:



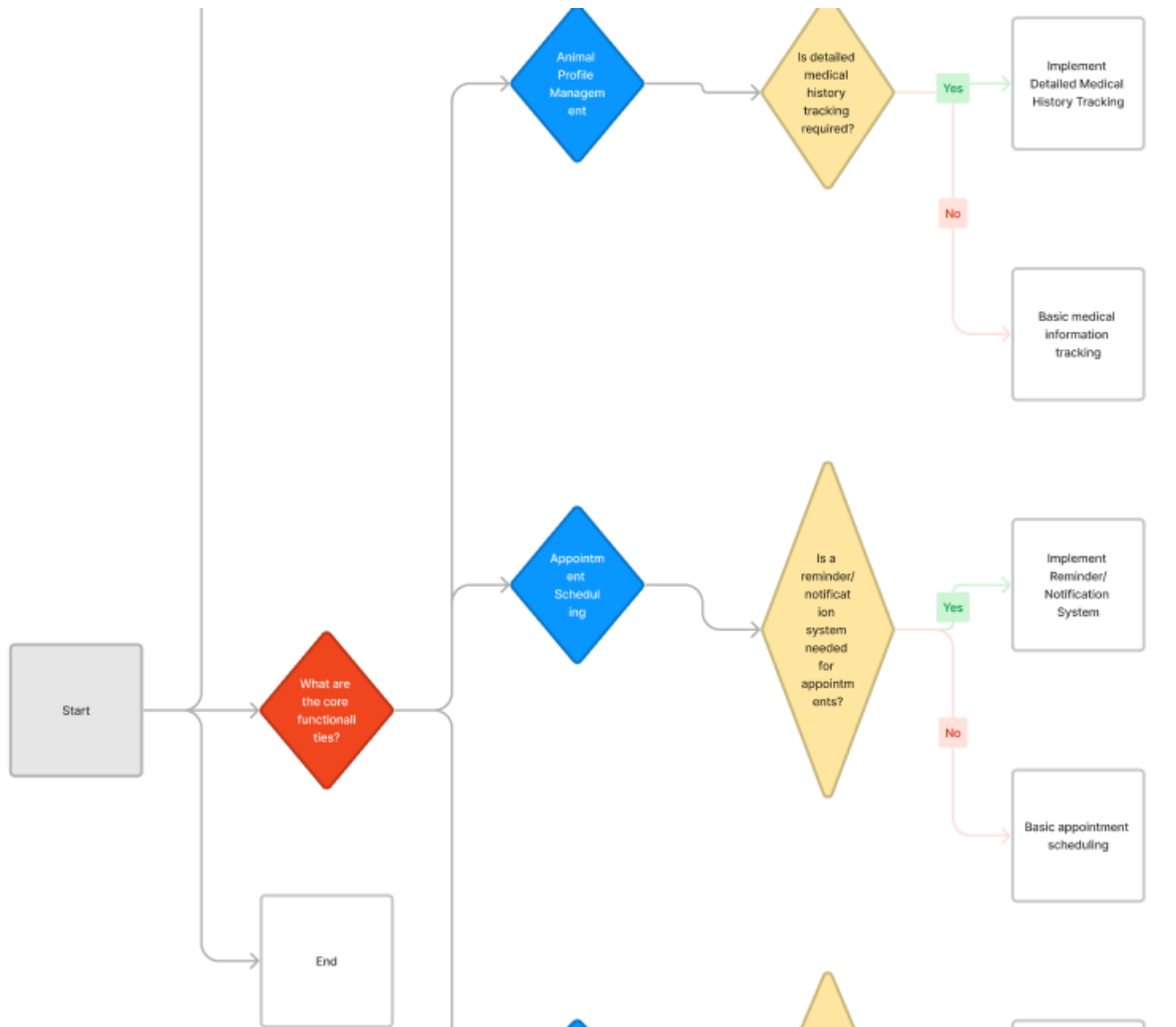
### Decision Tree for the inner Process:



## 1st part:

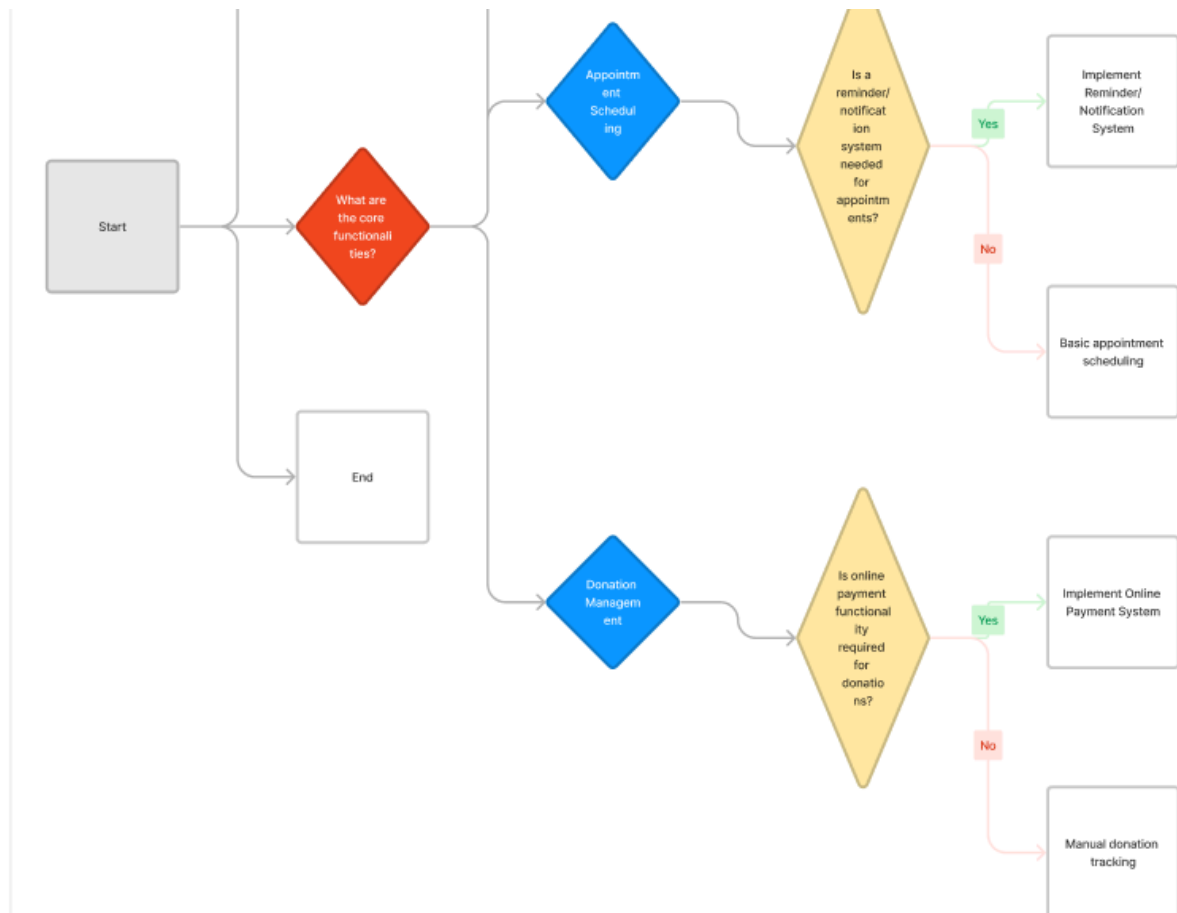


## 2nd part:





### 3rd Part:



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## Decision Table

Decision Factors	Administrator	Caregiver	Veterinarians
User Type	Yes	Yes	Yes
Animal Intake Management	Yes	Yes	No
Rehab Plan Creation & Tracking	Yes	Yes	No
Rehabilitation Tracking	Yes	Yes	No
Medical Rehabilitation	Yes	Yes	Yes
Behavioral Rehabilitation	Yes	Yes	No
Physical Rehabilitation	Yes	Yes	No
Release Decision Support	Yes	Yes	No
Adoption Facilitation	Yes	Yes	No

**Decision Factors:**Decision Factors which includes Usertype,Animal Intake Management,Rehab Plan Creation and Tracking,Rehabilitation Tracking,Medical Rehabilitation,Behavioral Rehabilitation,Physical Rehabilitation,Release Decision Support and Adoption Facilities.

Both Administrator and Caregiver have access for everything in the process.

**Algebraic Specifications:** Algebraic Specifications basically consists of four different sections.

a)Types Section b)Signature Section c)Exceptional Section d)rewrite rules Section.

**a)Types Section:**

**userRole**={Veterinarians, Animal Caretakers,Administrator}

**yesNo**={Yes,No}

**Functionality**={AnimalProfile,AppointmentScheduling,DonationManagement}

**Action**={UserRegistrationRequired,MedicalHistoryTracking,Online Payment System}

**AnimalSpecies**={Dog, Cat, Bird, Rabbit, Others}

**AppointmentStatus**={Scheduled,Cancelled,Completed}

**b)Signature Section:**

**UserRoleDecision**:UserRole->YesNo

**FunctionalityDecision**:Functionality->YesNo

**AnimalSpeciesDecision**:AnimalSpecies->YesNo

**AppointmentStatusDecision**:AppointmentStatus->YesNo

**c)Exceptional Section:**

- If User Role is Administrator, DetailedMedicalHistoryTracking is **Yes**.
- If User Role is Administrator, UserRegistrationRequired is **Yes**.
- If Functionality is DonationManagement,Online Payment is **Yes**.
- If AppointmentScheduling functionality is enabled, AppointmentStatus must be **Scheduled**.
- If AppointmentScheduling functionality is enabled, DetailedMedicalHistoryTracking must be **Yes**.
- If AppointmentScheduling functionality is enabled, UserRegistrationRequired must be **Yes**.
- If DonationManagement functionality is enabled, DetailedMedicalHistoryTracking must be **Yes**.
- If DonationManagement functionality is enabled, UserRegistrationRequired must be **Yes**.

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**d)Rewrite Rules Section:**

1. If OnlinePaymentSystem is enabled, UserRegistrationRequired must also be enabled.
2. If AppointmentScheduling functionality is enabled, AppointmentStatus must be Scheduled.
3. If AppointmentScheduling functionality is enabled, DetailedMedicalHistoryTracking must be enabled.
4. If AppointmentScheduling functionality is enabled, UserRegistrationRequired must be enabled.
5. If DonationManagement functionality is enabled, DetailedMedicalHistoryTracking must be enabled.
6. If DonationManagement functionality is enabled, UserRegistrationRequired must be enabled.
7. If UserRegistrationRequired is enabled, the user must provide at least basic information.
8. If DetailedMedicalHistoryTracking is enabled, the system must prompt the user to provide detailed medical history.
9. If ReminderNotificationSystem is enabled, the system must send reminders based on user preferences.
10. If OnlinePaymentSystem is enabled, the system must support secure payment processing.
11. If AppointmentStatus is Completed, the system must update the status.