

VetRecDX – Requirements Document

1. Introduction

1.1 Purpose

The purpose of the VetRecDX is to provide nonprofit rescues, animal hospitals and clinics with a secure, easy-to-use system for managing animal patient records, including photos, notes, medical history, medications, weight, and other relevant information.

1.2 Scope

VetRecDX will be a web-based application that allows staff to:

- Register new animals and their owners.
- Upload and store animal photos.
- Document clinical notes and visit history.
- Record medication prescriptions and dosages.
- Log weight and other vitals over time.
- Search, filter, and retrieve patient records efficiently.

2. Functional Requirements

2.1 User Management

- Register and manage clinic staff accounts.
- Role-based access control (e.g., Admin, Veterinarian, Assistant, Receptionist).
- Secure login and authentication.

2.2 Patient Management

- Add new patients with the following fields:
 - Name
 - Species/Breed
 - Age/Date of Birth
 - Gender
 - Owner information (name, contact details)
- Upload one or more photos for each patient.
- View and edit patient profiles.

2.3 Visit Documentation

- Create and view visit entries for a patient:
 - Date of visit
 - Clinical notes
 - Diagnoses
 - Treatment plan
 - Prescribed medications
 - Weight and vitals
 - Follow-up instructions

2.4 Medication Tracking

- Record medications with:
 - Name
 - Dosage and frequency

- Start/end date
 - Notes or alerts
- Maintain a list of medications per patient.

2.5 Weight & Vitals Monitoring

- Add and graph historical weight entries.
- Support other vitals like temperature, heart rate (optional).

2.6 File Uploads

- Upload and associate media (photos, scanned documents, lab reports) with visits or patient profiles.
- Support common file formats: JPG, PNG, PDF, etc.

2.7 Search & Reporting

- Search patients by name, ID, species, or owner.
- Filter visits by date range, diagnosis, etc.
- Export patient records or summaries to PDF or print.

3. Non-Functional Requirements

3.1 Security

- Secure authentication and authorization.
- Encrypted data storage (especially for PII).
- GDPR/HIPAA-compliant data handling (if applicable).

3.2 Performance

- System should respond to user actions within 1 second under normal load.
- Handle up to 20 concurrent users.

3.3 Reliability & Availability

- System should be highly available
- Backup and recovery options for data loss prevention

3.4 Usability

- Clean and intuitive user interface.
- Mobile/tablet friendly for quick data entry during examinations.

3.5 Scalability

- Should support growth in number of patients and users without performance degradation.

4. Optional / Future Features

- Integration with lab testing systems or imaging equipment.
- Automatic reminders for follow-up visits or medication refills.
- SMS/email notifications to pet owners.