FurWell
Software Requirements Specification
Version 01.00

Revision History

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Software Requirements Specification

1. Introduction

The Software Requirements Specification (SRS) for FurWell provides a comprehensive overview of the entire system, outlining its purpose, scope, definitions, acronyms, abbreviations, references, and an overview of the SRS itself. This document aims to thoroughly examine FurWell, a web-based platform designed to streamline veterinary care management for pet owners, veterinarians, and clinic administrators, by defining the problem statement in detail. It focuses on capturing and analyzing stakeholder needs to define high-level product features and detailed requirements for FurWell.The Software Requirements Specification (SRS) for FurWell provides a comprehensive overview of the entire system, outlining its purpose, scope, definitions, acronyms, abbreviations, references, and an overview of the SRS itself. This document aims to thoroughly examine FurWell, a web-based platform designed to streamline veterinary care management for pet owners, veterinarians, and clinic administrators, by defining the problem statement in detail. It focuses on capturing and analyzing stakeholder needs to define high-level product features and detailed requirements for FurWell.

1.1 Purpose

The purpose of this document is to present a detailed description of the FurWell System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document will serve as a guide for developers, stakeholders, and testers to ensure the system meets the intended functionality, usability, security, and performance requirements.

In essence, the goal of this SRS document is to offer a comprehensive outline of our software product, including its specifications and objectives. It details the project's intended audience, user interface, and hardware and software prerequisites. Additionally, it outlines the perspectives of our client, team, and audience regarding the product and its features.

1.2 Scope

The FurWell platform will provide a centralized system for managing veterinary clinics, pet health records, appointments, and user profiles. The system will cater to three main user groups:

- Administrators: Full access to oversee all operations, manage appointments, and track records across multiple clinics.
- Veterinary Clinic Owners: Manage clinic-specific appointments, patient records, and health information.
- Pet Owners: Access to their pet's health data, upcoming appointments, and vaccination records.

- Technology Stack: The frontend is built using React to provide a responsive and interactive user experience, while Firebase serves as the backend, handling authentication, real-time database operations, and cloud storage. The database is powered by Firebase Firestore, offering scalable NoSQL storage with real-time synchronization. For deployment, Vercel is used to ensure fast performance, automatic scaling, and seamless version control.

1.3 Definitions, Acronyms, and Abbreviations

Term	Description
Admin	Administrator - A user with full access to oversee all operations across multiple clinics
CRUD	Create, Read, Update, Delete
FurWell	The name of the veterinary care management platform.
Pet Owner	A user who accesses their pet's health data, and appointments
SRS	Software Requirements Specification
Vet	Veterinary
Veterinarian	A user who manages clinic-specific appointments and patient records

1.4 References

[1] Mejia, J. (2022, August 18). *5 Features Every Good Veterinary Clinic's Website Must Have*. iMatrix. https://imatrix.com/blog/features-for-veterinary-clinics-website/

[2] GeeksforGeeks. (2023b, September 20). *Software Requirement Specification (SRS) Format*. GeeksforGeeks. https://www.geeksforgeeks.org/software-requirement-specification-srs-format/

1.5 Overview

The document is organized into sections that describe the overall system, specific functional and non-functional requirements, and design constraints. The specific requirements section details the functionality, usability, reliability, performance, security, and interfaces of the FurWell platform.

2. Overall Description

The FurWell platform is designed to provide a seamless experience for managing vet care. It will allow admins to oversee multiple clinics, clinic owners to view their appointment schedules and client's information, and pet owners to access their appointment schedules, pet's health information and history records.

3. Specific Requirements

The specific requirements are –

3.1 Functionality

This subsection outlines the core functionalities that the FurWell platform will provide. These functionalities are designed to meet the needs of the system's primary user groups: administrators, veterinary clinic owners, and pet owners. Each functionality is described in detail to ensure a clear understanding of the system's capabilities and how it will support the management of veterinary care, pet health records, appointments, and user profiles. The following sections provide a comprehensive breakdown of the system's features and their respective requirements.

3.1.1 User Profile Management

3.1.1.1 The system shall allow users to create, update, and maintain their personal information.

3.1.1.2 The system shall provide a dashboard for users to view their activity and manage their preferences.

3.1.2 Clinic Management

3.1.2.1 The system shall allow administrators to create, read, update, and delete clinic information.

3.1.2.2 The system shall allow clinic owners to manage subscriptions and add new clinic details.

3.1.3 Security Features

The system shall provide secure login and logout functionality for all users.

The system shall authenticate user credentials before granting access to the platform.

3.1.4 Customer Updates

The system shall send email notifications to pet owners about upcoming appointments.

The system shall notify veterinarians about new or updated appointments.

The system shall alert admins when clinics subscribe or unsubscribe from the platform.

3.1.5 Pet Health Records

The system shall allow pet owners and veterinarians to search and sort past medical records.

The system shall display detailed health information for each pet, including vaccination history, allergies, and treatment plans.

The system shall allow veterinarians to upload and update pet health information for each pet, including vaccination history, allergies, and treatment plans.

3.1.6 Appointment Management

The system shall allow pet owners to schedule, reschedule, or cancel appointments.

The system shall allow veterinarians to manage appointments for their clinic.

3.1.7 Clinic Locator

The system shall provide a search tool for pet owners to locate nearby veterinary clinics based on their location.

The system shall allow pet owners to filter search results by services offered, ratings, and distance.

The system shall display clinic details, including address, contact information, and available services.

3.1.8 Subscription Management

The system shall allow clinic owners to manage subscriptions for their clinics.

3.2 Usability

3.2.1 Graphical User Interface

The system shall provide a user-friendly interface with consistent navigation across all pages.

The system shall provide a dashboard for each user role (Admin, Vet Clinic, Pet owner).

The system shall provide a digital image for each clinic.

3.2.2 Accessibility

The system shall ensure an intuitive and user-friendly design.

The system shall provide responsive navigation for different screen sizes.

3.3 Reliability & Availability

3.3.1 High Availability

The system will be available 24/7, ensuring that users can access their data and manage appointments at any time.

3.4 Performance

The system will handle simultaneous users and large volumes of data efficiently. Response times for key operations (searching for clinics, updating records, appointment setting) will be under 3 seconds.

3.5 Security

3.5.1 Data Storage

3.5.1.1 The customer's web browser shall never display a customer's password.

3.5.1.2 The system shall store user passwords securely using hashing algorithms.

3.6 Design Constraints

3.6.1 Platform Compatibility

The system must be compatible with both desktop and mobile devices.

3.6.2 Scalability

The system should be designed to scale as the number of users and clinic grows.

3.7 Interfaces

This subsection describes the various interfaces that the FurWell platform will support to ensure seamless interaction between users, the system, and external services. The interfaces are categorized into user interfaces, hardware interfaces, software interfaces, and communication interfaces. Each interface is designed to provide a smooth and efficient experience for all users, regardless of their role or device. The following sections detail the requirements and specifications for each type of interface, ensuring compatibility, responsiveness, and integration with external systems.

3.7.1 User Interfaces

The user interface for the software shall be compatible with any browser such as Google Chrome, Mozilla Firefox, Microsoft Edge, and Safari.

The interface shall be responsive and compatible with desktop and mobile devices.

The system shall use a modern, intuitive design with easy-to-navigate menus and buttons.

The system shall provide a dashboard for each role (Admin, Vet Clinic, Pet Owner) with relevant information and actions

3.7.2 Hardware Interfaces

3.7.2.1 Since the application must run over the internet, all hardware required to connect to the internet will be considered hardware interfaces for the system.

3.7.2.2 The system shall be optimized for devices with different hardware configurations, including desktops, tablets, and mobile phones.

3.7.3 Software Interfaces

3.7.3.1 The system shall use APIs to communicate with external systems, such as Google Maps

for clinic locator functionality.

3.7.3.2 The system shall integrate with third-party services for email notifications.

3.7.4 Communication Interfaces

3.7.4.1 The system shall use HTTP/HTTPS for web communication.