



SavePaws Club - Animal Rescue & Welfare Web Platform

Software Requirements Specification

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1. Introduction

1.1 Purpose

We're building "**SavePaws Club**" — our goal is simple: make it as easy as possible for someone to help an animal in distress.

This platform will handle **emergency rescues, veterinary assistance, adoption & rehoming, abuse reporting, education, marketplace for pet needs, community engagement, and donations** — all in one place.

This document captures everything we've agreed on so far:

- What the system needs to do (functional requirements)
- How it needs to behave (non-functional requirements)
- Who it's for and how they'll use it
- What tech and constraints we'll be working with

This is our **blueprint** for development, testing, and stakeholder alignment for the university project.

1.2 Scope

The **SavePaws Club** will be a **web-based platform**, mobile-friendly, and designed for quick access in emergencies.

Here's the core scope we brainstormed:

- **Emergency Rescue System** – Report injured animals, share real-time GPS, offline emergency contacts.
- **Guest Mode** – Emergency help without login, so anyone can act immediately.
- **Veterinary Assistance** – Medical guides, nearby clinic locator, verified vet directory.
- **Pet Adoption & Rehoming** – Verified listings, safe rehoming process.
- **Knowledge Hub** – Articles, health tips, user stories.
- **Abuse Reporting** – Legal contacts, cruelty reporting tools.
- **Marketplace** – Pet food, medicines, accessories — verified sellers only.
- **Community Forum** – Volunteer sign-ups, discussions, awareness campaigns.
- **Donation Portal** – Transparent, verified NGO/shelter donations.

1.3 Definitions & Acronyms

- **SRS** – Software Requirements Specification
- **SavePaws Club** – Our project
- **Guest Mode** – Emergency feature access without login
- **NGO** – Non-Governmental Organization
- **UI** – User Interface
- **API** – Application Programming Interface
- **GPS** – Global Positioning System

1.4 References

- Project Proposal: *SavePaws Club — A Complete Animal Rescue, Protection & Welfare Platform*
- Web Standards: **W3C, HTML5, CSS3, JavaScript**
- Database: **MySQL** or **Firebase** (decision pending final architecture)
- APIs: **Google Maps API** (location), **SMS Gateway** (offline help)

1.5 Overview

This SRS flows like this:

1. **Overall Description** – Big picture view of how this will work
2. **System Features** – Detailed feature breakdown
3. **External Interface Requirements** – UI, hardware, software needs
4. **Non-Functional Requirements** – Performance, security, quality benchmarks
5. **Other Requirements** – Database rules, backups, future ideas
6. **Assumptions & Dependencies** – What we're relying on

2. Overall Description

2.1 Product Perspective

SavePaws Club will be a **standalone, responsive web app**.

- Connects with **Google Maps API** for real-time locations
- Uses backend database for storing **users, rescue cases, adoption posts, donations**

- Supports **both registered users and guest users**

2.2 Product Functions

From our whiteboard session, the agreed major functions:

1. **Emergency Rescue** (priority #1)
2. **Guest Mode** (fastest access for urgent cases)
3. **Veterinary Assistance** (health guides, vet finder)
4. **Adoption & Rehoming**
5. **Knowledge Hub** (blogs, tips)
6. **Abuse Reporting** (legal tools)
7. **Marketplace** (verified sellers)
8. **Community Forum**
9. **Donation Portal**

2.3 User Classes & Characteristics

We identified **six main user roles**:

- **Guest Users** → No login, emergency-only
- **Registered Users** → Full access to all features
- **Rescue Teams** → Receive real-time rescue alerts
- **Veterinarians** → Listed in verified directory
- **NGOs/Shelters** → Receive donations, manage adoptions
- **Administrators** → Full control over content, verification, and reports

2.4 Operating Environment

- **Client Side**: Any modern browser (Chrome, Firefox, Safari)
- **Server Side**: Node.js/Express.js, MySQL or Firebase
- **APIs**: Google Maps, SMS Gateway
- **Offline Mode**: Cached contacts and guides

2.5 Revenue Resources

1. Donations & Crowdfunding

- a. Contributions from individuals, animal lovers, and supporters via online donation campaigns.
- b. Monthly or one-time donation options on the platform.

2. Membership Plans

- a. Premium membership for vets, or animal shelters with extra features like advanced search, analytics, and priority alerts.

3. Marketplace Commission

- a. Percentage fee from the sale of pet-related products, adoption fees, and services listed in the platform's marketplace.

4. Corporate Sponsorships

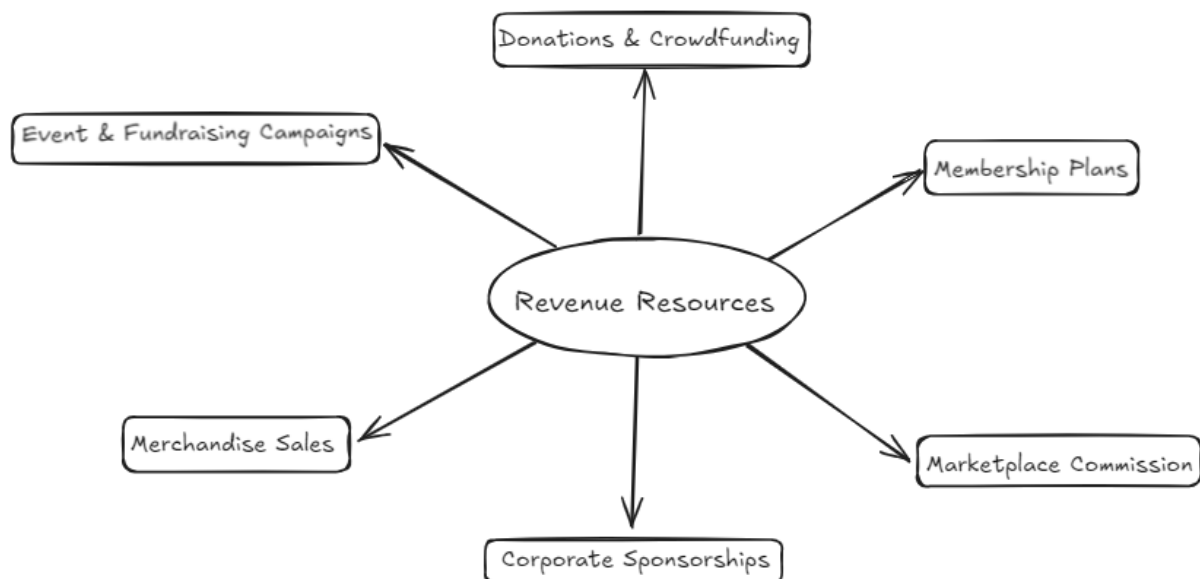
- a. Partnerships with pet product companies, veterinary chains, and NGOs for sponsorships and advertising placements.

5. Event & Fundraising Campaigns

- a. Hosting charity events, awareness programs, and online fundraising drives to support rescue operations.

6. Merchandise Sales

- a. Selling branded items like t-shirts, pet accessories, and eco-friendly pet products to raise funds and awareness.



2.6 Constraints

- Must follow **WCAG 2.1 accessibility** standards
- Guest Mode only for emergency use
- Offline features limited to pre-stored data

2.7 Assumptions & Dependencies

Assumptions:

- Users have basic web navigation skills
- Rescue teams & NGOs agree to verification
- APIs remain stable

Dependencies:

- Google Maps API uptime
- Verified vet & NGO data availability
- Stable hosting

3. System Features

- **Emergency Rescue** → GPS reporting, offline contacts
- **Veterinary Assistance** → Clinic locator, guides, vet list
- **Adoption System** → Verified adoption posts
- **Knowledge Hub** → Health tips, articles
- **Abuse Reporting** → Legal contacts, cruelty evidence submission
- **Marketplace** → Verified sellers, secure payments
- **Community Forum** → Discussions, volunteer coordination
- **Donation Portal** → Transparent donations, NGO verification

4. External Interface Requirements

- **UI:** Mobile-first, simple for guests, full dashboard for members
- **Hardware:** GPS-enabled devices recommended
- **Software:** Google Maps API, SMS Gateway API, MySQL/Firebase backend
- **Communication:** HTTPS, SMS, email notifications

5. Non-Functional Requirements

- **Performance:** Handle 100+ simultaneous rescue requests
- **Security:** Encrypted logins, role-based access, HTTPS
- **Quality:** <2s page load, 99.9% uptime, WCAG 2.1 compliance
- **Compliance:** GDPR/CCPA for data, local animal welfare laws

6. Other Requirements

- **Database:** Backup daily, store all profiles, reports, transactions
- **Future Enhancements:**
 - GPS tracking for rescue vans
 - Volunteer training modules
 - Mobile apps
 - Multi-language support

7. Conclusion

SavePaws Club is a **real, actionable solution** — not just a concept.

We’ve defined clear user roles, features, and tech to build it.

If we stick to this plan, we can deliver a platform that’s **fast, accessible, and life-saving** for animals.

Appendix A: Team Roles and Responsibilities

Members Name	Role
Helal Uddin Patwary	Backend, Database, UI/UX, Research & Analysis
Joy Goswami Niloy	Front-end, Backend, Database
Shalehin Ahmed Ornob	Backend, Database
Shamiur Hasan	Front-end