

Volunteer Management & Task Tracking System

WSD India Volunteer App

1. Introduction

The WSD India Volunteer Management System is a digital platform designed to track volunteer shifts and activities in animal shelters. Volunteers use a mobile application to start their shifts via QR code scanning and select tasks, while administrators monitor activities through a web dashboard.

2. Objectives

- Track volunteer attendance digitally
- Monitor volunteer task assignments
- Improve transparency and accountability
- Generate volunteer activity reports

3. System Overview

The system consists of a Volunteer Mobile Application and an Admin Web Dashboard connected through a centralized backend and database.

4. User Roles

Volunteer: Start shift, select tasks, complete tasks, end shift

Admin: Monitor volunteers, track tasks, generate reports

5. Functional Requirements

Volunteers can scan QR codes to start shifts, select predefined tasks, and complete them. Admins can view live volunteer activity and task statistics.

6. Non-Functional Requirements

- Secure authentication
- Real-time updates
- High reliability and performance

7. Database Structure

Tables include Volunteers, Shelters, Shifts, and Tasks with proper relationships.

8. QR Code Specification

QR codes store shelter identification to validate volunteer check-ins.

9. API Overview

APIs handle authentication, shift management, task tracking, and admin reporting.

10. Future Enhancements

- GPS verification
- Photo uploads
- Volunteer certificates
- Notifications

11. Conclusion

This system improves volunteer coordination, operational efficiency, and accountability for WSD India shelters.