## Feasibility Report for No-Kill Louisville Digital Check-In Service

**Prepared for:** No-Kill Louisville Animal Shelter

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# **Breakdown of Individual Contributions**:

1. **Team lead:** Sebastian Burman
   * Overall project coordination and timeline management
2. **Developer:** Sebastian Burman, Xiaokun Li, Jonathan Roberts
   * Backend development and API integration
3. **Research Analyst:** Sebastian Burman, Xiaokun Li, Jonathan Roberts
   * Market research and user needs assessment
4. **Quality Assurance:** Sebastian Burman, Xiaokun Li, Jonathan Roberts
   * Testing and validation
5. **Documentation:** Sebastian Burman, Xiaokun Li, Jonathan Roberts
   * Report writing and documentation

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# **Software Requirements Specification (SRS)**

## Introduction

* **Purpose:** To outline the requirements for the No-Kill Louisville Digital Check-In Service.
* **Definitions:**
  + API: Application Programming Interface
  + SMS: Short Message Service
* **System Overview:** A backend service that integrates with Acuity's API to facilitate SMS-based check-ins for pet food pickups.
* **References:** Acuity API Documentation, SMS Gateway Documentation

## Overall Description

* **Product Perspective**
* **System Interfaces:** Acuity API
* **User Interfaces:** None (Backend Service)
* **Hardware Interfaces:** Server hosting the backend service
* **Software Interfaces:** SMS Gateway
* **Communication Interfaces:** SMS to API translation
* **Memory Constraints:** Minimal
* **Operations:** Check-in via SMS
* **Site Adaptation Requirements:** N/A
* **Product Functions:** Automate check-in notifications to volunteers
* **User Characteristics:** Volunteers and individuals picking up pet food
* **Constraints, Assumptions, and Dependencies:** Assumes Acuity API supports check-in functionality

## Specific Requirements

* **External Interface Requirements:** Acuity API, SMS Gateway
* **Functional Requirements:**
  + Receive SMS
  + Translate SMS to API request
  + Notify volunteers
* **Performance Requirements:** Less than 5-second latency for notifications
* **Design Constraints:**
* **Standards Compliance:** GDPR for data protection
* **Logical Database Requirement:** N/A
* **Software System Attributes:**
  + Reliability: 99.9% uptime
  + Availability: 24/7
  + Security: Encrypted data transmission
  + Maintainability: Easy to update
  + Portability: Cloud-based
  + Other Requirements: N/A

# **Team contact:**

1. **Team lead:** Sebastian Burman
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   * Responsibilities: Overall project coordination
2. **Developer:** Sebastian Burman, Xiaokun Li, Jonathan Roberts
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   * Responsibilities: Backend development