

Project Requirements Document

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1. Introduction

This document outlines the requirements for the new software system.

2. System Overview

The system will provide user authentication and data management.

3. Functional Requirements

- User registration and login
- Password reset functionality
- Profile management
- Data export in CSV format

4. Technical Requirements

- Database: PostgreSQL 12+
- Backend: Python 3.8+

- Frontend: React 17+

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5. Security Requirements

- HTTPS encryption required
- Password hashing using bcrypt
- Session timeout after 30 minutes

6. Performance Requirements

- Page load time under 2 seconds
- Support 1000 concurrent users

7. Deployment

- Deploy to AWS infrastructure
- Use Docker containers

8. Timeline

- Phase 1: 3 months
- Phase 2: 2 months