

Project Requirements Document

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1. Introduction

This document outlines the requirements for the new cloud-based software system.

2. System Overview

The system will provide user authentication, authorization, and data management.

3. Functional Requirements

- User registration and login
- Two-factor authentication
- Password reset functionality
- Profile management
- Data export in CSV and JSON formats

4. Technical Requirements

- Database: PostgreSQL 14+

- Backend: Python 3.11+
- Frontend: React 18+
- API: GraphQL

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5. Security Requirements

- TLS 1.3 encryption required
- Password hashing using argon2
- Session timeout after 15 minutes
- API rate limiting

6. Performance Requirements

- Page load time under 1 second
- Support 5000 concurrent users
- 99.9% uptime SLA

7. Deployment

- Deploy to Azure cloud infrastructure
- Use Kubernetes for orchestration
- Implement CI/CD pipeline

8. Timeline

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