

Software Requirements Specification (SRS)

MujahidGPT – JHK Solution Personal Assistant

1. Introduction

This Software Requirements Specification (SRS) document describes the functional and non-functional requirements of the MujahidGPT – JHK Solution Personal Assistant. The system is an AI-powered assistant designed to provide intelligent responses and centralized business information for JHK Solution using modern AI technologies.

1.1 Purpose

The purpose of this document is to provide a detailed description of the system's requirements, architecture, features, and constraints. This document serves as a reference for developers, stakeholders, and future maintainers.

1.2 Scope

MujahidGPT is a web-based AI personal assistant developed using Python and Gradio, deployed on Hugging Face Spaces, and embedded into Google Sites via an iframe system. The system provides easy access through a custom domain and is managed using GitHub for version control.

2. Overall Description

2.1 Product Perspective

The system operates as a standalone AI assistant hosted on Hugging Face Spaces. It is embedded into a Google Sites frontend, allowing users to interact with the assistant via a web browser without installing additional software.

2.2 Product Functions

- Provide AI-based responses to user queries
- Serve as a knowledge base for JHK Solution
- Enable browser-based access through Google Sites
- Support scalable deployment using Hugging Face Spaces
- Allow easy updates via GitHub version control

2.3 User Classes and Characteristics

End Users: General users or clients accessing the assistant through the website. Administrators: Developers or system managers maintaining the code and deployment.

3. System Requirements

3.1 Functional Requirements

- The system shall accept user input via a web interface.
- The system shall generate AI-based responses using Python logic.
- The system shall display responses in real time using Gradio.
- The system shall be accessible through a custom domain.
- The system shall allow embedding via Google Sites.

3.2 Non-Functional Requirements

- The system shall be available 24/7 subject to hosting uptime.
- The system shall be scalable using cloud-based infrastructure.
- The system shall ensure basic security for user interactions.
- The system shall be easy to maintain and update.

4. Technology Stack

Layer	Technology
Backend & AI	Python, Gradio
Hosting	Hugging Face Spaces
Frontend	Google Sites (Embed Code)
Version Control	GitHub
Domain	thenajafigroup.online

5. Assumptions and Constraints

The system assumes continuous availability of Hugging Face Spaces and Google Sites services. Internet connectivity is required for users to access the application.

6. Conclusion

MujahidGPT – JHK Solution Personal Assistant is a scalable, web-based AI solution that integrates modern AI tools with simple frontend management. This SRS provides a clear foundation for future enhancements and maintenance.