

# MujahidGPT — Software Requirements Specification (SRS)

## 1. Introduction

### 1.1 Purpose

This Software Requirements Specification (SRS) describes the functional and non-functional requirements for MujahidGPT, an AI-powered conversational assistant built in Python and deployed on Hugging Face Spaces.

### 1.2 Scope

MujahidGPT will be a web-based conversational agent accessible via a browser. Core capabilities include natural-language dialogue, daily task assistance, context handling, and deployment in Hugging Face Spaces.

## 2. Overall Description

### 2.1 Product Perspective

MujahidGPT is a standalone web application with an LLM backend.

### 2.2 Product Functions

- Chat interface
- Task assistance
- Export conversation
- Admin configuration

## 3. Functional Requirements

FR-1: Chat UI

FR-2: Timestamped messages

FR-3: LLM backend response generation

FR-4: Session context

FR-5: Token limit management

FR-6: Task templates

FR-7: Structured task creation

FR-8: Export features

FR-9: Copy to clipboard

FR-10: Admin model switching

FR-11: Error logs

FR-12: Rate limiting

FR-13: Safety filters

#### 4. Non-Functional Requirements

- NFR-1: Response latency < 2.5s
- NFR-3: Availability 99%
- NFR-5: HTTPS security
- NFR-8: Mobile responsive UI
- NFR-10: Modular codebase
- NFR-11: Portable deployment

#### 5. External Interfaces

- User Interface (chat window)
- Model API adapter
- HTTPS communication

#### 6. Data Requirements

Sessions, preferences, logs stored optionally and securely.

#### 7. Security & Privacy

Privacy-by-design, no PII stored by default, deletion on request.

#### 8. Safety

AI safety filters for harmful content, disclaimers for high-stakes topics.

## **9. Testing**

Unit tests, integration tests, UX tests, model evaluation.

## **10. Deployment**

Deployed on Hugging Face Spaces using Gradio/Streamlit. Includes requirements.txt and clear instructions.

## **11. Future Enhancements**

Voice support, multilingual features, OAuth integrations, persistent accounts.