Software Requirements Specification (SRS)

Project Title: English to Hindi Language Translator Web Application using NLP

1. Introduction

Purpose: This document specifies requirements for an English to Hindi translation web application using NLP.

Scope: The system translates English text into Hindi using a neural machine translation model.

2. Overall Description

The application is a standalone web-based translator built using Flask and deployed on Render.

3. Functional Requirements

FR1: Accept English text input

FR2: Validate input

FR3: Translate text using NLP model

FR4: Display Hindi output

4. Non-Functional Requirements

Performance: Response under 3 seconds

Usability: Simple UI

Security: No data storage

5. Technology Stack

Frontend: HTML, CSS, JS

Backend: Python Flask

Model: Helsinki-NLP/opus-mt-en-hi

Deployment: Render

6. Conclusion

This SRS defines requirements for a cloud-deployed NLP-based translation system.