Product Requirements Document (PRD)

Project Title: AI Todo App

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Deployment Link: https://ai-todo-app-3rbcm8vxtym4gzkrw5phl7.streamlit.app

GitHub Repo: https://github.com/Priti2805/ai-todo-streamlit

# 1. Overview

The AI Todo App is a smart task manager that allows users to:  
- Add to-do items  
- Mark them as complete  
- Translate them into multiple languages  
  
This app was built using Streamlit, styled with custom CSS, and uses the MyMemory Translation API for free multilingual support.

# 2. Objectives

- Enable users to manage their tasks efficiently  
- Add support for translation of task text to user-selected languages  
- Build a clean, attractive UI  
- Use AI or AI-related tools (translation) to fulfill app requirements  
- Deploy the application successfully (Vercel or Streamlit Cloud)

# 3. Target Users

- Students or professionals who want a simple, multilingual task tracker  
- Non-English speakers who benefit from task translation  
- Recruiters and mentors reviewing the candidate’s ability to apply AI and deploy web apps

# 4. Functional Requirements

- ✅ Add Task: User can type and add a task to the list  
- ✅ Complete Task: User can mark tasks as completed using a checkbox  
- ✅ Translate Task: Each task can be translated into a chosen language  
- ✅ Translate All Button: Optional button to translate all tasks at once  
- ✅ Task Stats: Show count of completed, pending, and total tasks  
- ✅ Session Persistence: Tasks persist across interactions using session\_state

# 5. Design Requirements

- Gradient background with purple and blue  
- Transparent task container with shadows  
- Responsive layout using Streamlit columns  
- Emoji-enhanced text for better user interaction

# 6. API Details

API Used: MyMemory Translation API  
Endpoint: https://api.mymemory.translated.net/get  
Method: GET  
Params:  
- q: Text to translate  
- langpair: Format en|es, en|hi, etc.

# 7. Technical Stack

Frontend: Streamlit  
Styling: HTML/CSS (injected via st.markdown)  
Translation API: MyMemory (Free)  
Deployment: Streamlit Cloud  
Version Control: GitHub

# 8. Deployment

- Hosted live on Streamlit Cloud  
- GitHub repository publicly accessible with full source code and documentation

# 9. Testing Notes

- Manually tested task creation, completion, and translation flows  
- Tested all major languages in lang\_map  
- Error handling added for failed API responses

# 10. Development Time Tracking

Streamlit setup: ~1 hour  
UI styling with CSS: ~1 hour  
Implementing task logic: ~1.5 hours  
Translation logic + API integration: ~1.5 hours  
Testing + bug fixes: ~1 hour  
Deployment & GitHub setup: ~0.5 hour  
Loom video creation: ~0.5 hour  
Total: ~7 hours