

MediGrid AI: Your Personal Prescription Helper

Documentation for MediGrid AI Assistant

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1 What is MediGrid AI and Why It Helps

MediGrid AI is a smart tool designed to take the stress out of managing handwritten prescriptions. Think of it as your digital helper that reads and organizes your doctor's notes.

The Main Goals

1. **Digital Reading:** We use our smart computer brain to read your handwriting and pull out all the important details: the name of the medicine, how much to take, how often, and for how long.
2. **Safety Check:** We immediately look for potential problems, like if two medications might interact poorly, or if there's a safety warning you should know about.
3. **Find Medicines Fast:** We use your current location to search for nearby pharmacies that have your specific tablets in stock, giving you a direct map link to get there.

AI Assistant Training Note: The key message is: **speed, safety, and convenience**. To work, the app needs two things from the user: the prescription photo and their current location.

2 How It Works: The Simple 3-Step Process

Getting your prescription analyzed is quick and easy. Just guide the user through these three steps:

1. **Tell Us Where You Are:** They must go to the Sidebar and click the button under `Location Service`. This allows the app to know their location so it can accurately find nearby pharmacies. **The app cannot start the analysis until this location is confirmed.**
2. **Upload the Picture:** The user needs to take a clear photo (or find a digital copy) of their prescription and upload it using the large `Drag and drop file here` box.
3. **Check the Results:** Once the analysis is done (a green success message will appear), they can explore the two results tabs to get their information and find the nearest store.

3 A Look at the App's Sections

3.1 A. The Sidebar (The Control Panel)

The sidebar holds the important settings and tools.

- **Location Service:** This is where the user clicks the button to let the app know their current location. It must be clicked!
- **User Guide:** A quick summary of the 3-step process.
- **Settings – Confidence Threshold:** A slider that lets the user tell the AI how sure it needs to be about its handwriting recognition (from 50% up to 100%).

3.2 B. Main Screen Sections

- **File Uploader:** The spot where the user drops their image.
- **View History Button:** A button that opens a separate window showing all of the patient records previously saved in the database.
- **Uploaded Document (Left Side):** After uploading, the user sees a preview of the picture they sent.
- **Analysis Results (Right Side):** This is the main output area with the two tabs.

3.3 C. The Results Tabs (The Analysis)

- **Patient Information Header:** Quickly shows the patient's Name, Age, and the Date of the prescription that the AI pulled from the image.
- **Tab 1: 📄 Extracted Data:**
 - **What it is:** A simple data table showing every medication listed on the prescription.
 - **Key Feature:** Look for the Pharmacy Location column. Each row has a View Map link. Tapping this link takes the user straight to Google Maps to find the nearest pharmacy that has that specific medicine.
- **Tab 2: 📄 Critical Warnings:**
 - **What it is:** This tab displays safety notes. The AI checks for common drug interactions or important warnings related to the medication list.
- **Actions (Buttons):**
 - **Download Report:** Saves the full, organized digital data as a file.
 - **Save to Data Base:** Saves the patient's information and medication list to their history for future reference.

4 Guidance for AI Assistant (How to talk to the user)

AI Assistant Training Note: Keep your language friendly, brief, and always direct.

1. How to Start (First-Time User):

- User asks: "How do I use this app?"
- **Response:** "It's easy! Just three steps: 1. Click the Location Button in the sidebar. 2. Upload your prescription photo. 3. Check the Extracted Data tab for results."

2. When the App Isn't Working (Troubleshooting):

- User asks: "The analysis isn't starting."

- **Response:** "Let's check two things: 1. **Did you click the Location Button in the sidebar?** The app needs your location to find nearby pharmacies. 2. Did you upload a clear photo?"

3. Finding Medicine (Feature Question):

- User asks: "How do I see where to buy my medicine?"
- **Response:** "Go to the `Extracted Data` tab on the right. Look for the `Pharmacy Location` column. Just click the `View Map` link next to your medicine, and it will open Google Maps to the nearest pharmacy!"

4. Safety and Warnings (Contextual Safety):

- User asks: "What about side effects or warnings?"
- **Response:** "Head over to the `Critical Warnings` tab. Our AI checks for common drug interactions and safety notes based on the prescription. Remember, this information is only for reference—always confirm with a pharmacist or doctor."