

Pickle Mini – Personal Memory Assistant

1. Introduction

Pickle Mini is a **personal memory assistant** that I built to help me and others save, search, and manage important reminders or tasks.

Think of it as your **digital notebook**, where you can store all your thoughts, to-dos, and events in one place.

With Pickle Mini, you can:

- Save tasks, events, or notes quickly.
- Search for specific memories whenever you need them.
- Keep track of things in an **organized and simple way**.
- Share the app with friends or family, while keeping **everyone's data private**.

My goal with this project is to make life easier by **never forgetting important things again**.

2. Why I Built This Project

I built Pickle Mini to solve a personal and common problem:

“We all have so many things to remember – meetings, deadlines, appointments, and personal tasks. It’s easy to forget something important.”

Most reminder apps are either too complicated or require sign-ups, subscriptions, or too many steps.

I wanted to create **something simple, free, and private**.

Pickle Mini is:

- **Easy to use** – no logins or confusing features.
- **Privacy-friendly** – each user’s data is completely separate and safe.
- **Free** – no hidden charges or premium plans.

- **Accessible** – just open the link and start using it instantly.
-

3. What Makes Pickle Mini Special

Here's what makes Pickle Mini stand out:

1. **Private Memories** – Your saved notes and tasks are only visible to you.
 2. **Separate Data for Each User** – Even if two people open the same link, their data stays completely separate.
 3. **Web-Based** – No downloads or installations needed.
 4. **Free Forever** – Built with open-source tools and hosted for free.
 5. **Simple and Clean Interface** – Easy for anyone to understand and use.
-

4. How I Built It

I built Pickle Mini step-by-step using modern but **easy-to-understand technologies**:

- **Python** – The main programming language for building the app.
 - **Streamlit** – A framework that helps create interactive, web-based apps with Python.
 - **Groq API (optional)** – Used for natural language questions like *“What do I need to do today?”*
 - **JSON Files** – Used to store your data securely on the backend.
 - **GitHub** – For hosting and managing the project's code.
 - **Streamlit Cloud** – To deploy the app so anyone can use it online.
-

5. How It Works

Here's a simple step-by-step of how the app works:

When You Save a Memory:

- You type a task or note into the app.
- Pickle Mini saves it in a private JSON file that only you can access.
- **Example of a clear, detailed memory:**

✓ “I need to submit my college assignment on Data Science by **7 PM today**.”

Why this works well:

- It includes **what** you need to do.
 - It includes **when** you need to do it.
 - It includes **extra details** like the topic or context.
- **✗ Poor example (too vague):**

“I need to submit assignment.”

This is not clear because there is no time, subject, or urgency.

Tip:

The more details you include, the better the app will be able to help you later when you search or ask questions.

When You Search for a Memory:

- You type keywords like “assignment” or “7 PM.”
 - The app instantly shows you all related memories.
-

When You Ask a Question (using Groq API):

- You can ask, “*What do I need to finish today?*”

- The app reads your saved memories and gives you a clear, natural answer.
-

6. Features

Here's what you can do with Pickle Mini today:

- **Add Tasks:** Quickly save anything you don't want to forget.
 - **Search Easily:** Find tasks by keyword.
 - **Natural Language Q&A:** Ask questions like you would to a person.
 - **Privacy by Design:** Every user gets their own memory file.
 - **Web Access:** Use it on any device with a browser – no installation required.
-

7. Future Plans

I'm continuously improving Pickle Mini and have ideas for exciting future features:

1. **Notifications & Reminders** – Get alerts before meetings or deadlines.
 2. **Multiple Device Syncing** – Access your memories from phone, tablet, or computer seamlessly.
 3. **Task Categories & Priorities** – Organize tasks into personal, work, or custom groups.
 4. **Custom Reminder Times** – Choose when to get notified (like 1 hour or 1 day before an event).
 5. **Offline Mode** – So you can use Pickle Mini even without an internet connection.
-

8. How to Use Pickle Mini

Here's how to get started:

1. **Open the app link** in your browser.
 2. **Save a memory** by typing it in and clicking **Save**.
 - Example of a good detailed memory:

“Dinner reservation at **7 PM on Saturday** at Italian Bistro.”
 - Example of a bad memory:

“Dinner.”
 3. **Search your memories** using keywords like:
 - “Dinner”
 - “Saturday”
 - “Italian Bistro”
 4. **Ask natural questions**:
 - “What do I need to do this weekend?”
 - “What time is my dinner reservation?”
 - “What assignments are due today?”
 5. **Enjoy stress-free organization** knowing your data is private.
-

9. Technical Details

If you're curious about the behind-the-scenes:

- **Frontend & Backend:** Streamlit handles both in a single Python file.
- **Database:** Instead of using complex databases, I store data in simple, secure JSON files.
- **Deployment:** The app is hosted on **Streamlit Cloud**, so anyone with the link can use it.
- **Version Info:**

- Streamlit: 1.49.1
 - Requests: 2.32.5
 - Python: 3.11
-

10. Benefits of This Project

Here's how Pickle Mini can make a difference:

- **Personal Use:** Keep track of your life easily.
 - **Work Use:** Save meeting notes or work reminders.
 - **Families & Friends:** Share the app link so everyone stays organized.
 - **Small Teams:** Manage tasks without needing paid software.
-

11. Why I Named It “Pickle Mini”

The name comes from the idea of “**pickling**” **your memories** – like storing cucumbers in a jar to keep them fresh.

Here, I'm storing **memories and tasks** so they stay fresh and accessible whenever you need them.

The “Mini” part represents that this app is **simple, lightweight, and easy to use**.

12. Conclusion

Pickle Mini is my step towards **making memory management effortless**.

I built it to be:

- **Simple** – so anyone can use it.
- **Private** – so your data stays safe.

- **Free** – so there's no barrier to entry.

I believe that everyone deserves a way to **stay organized and stress-free**, and Pickle Mini brings that vision to life.

13. Contact & Support

If you'd like to contribute or have suggestions:

- **GitHub Repository:** <https://github.com/sageofninetale/pickle-mini>
- **Email:** aryansubhash19@gmail.com