MEDICATION REMINDER BOT

Project Report

SUBMITTED BY

Sr. No	Registration No	Name of Students	Roll No
1	12323820	Kranti Moon	58
2	12311888	Pawan Tiwari	57
3	12307885	Harikesh Kashyap	32

LOVELY PROFESSIONAL UNIVERSITY, PUNJAB

ACKNOWLEDGEMENT

I would like to express my special gratitude and appreciation to Sir **Vaibhav Chadha** for his valuable guidance and support on completion of this report. On the very outset of this project, I would also like to extend my sincere and heartfelt obligations towards all the personages who have helped me in this endeavor. Without the active guidance, help, cooperation and encouragement of faculty I would not have made headway in the project. At last but not least gratitude goes to sir who directly or indirectly helped complete this project.

Thanking You

Pawan Tiwari

PROJECT REPORT: MEDICATION REMINDER BOT

1. INTRODUCTION:

People frequently forget to take their medications, which can have detrimental effects on their health, particularly for those who have long-term illnesses. The Medication Reminder Bot provides a clever, browser-based solution to this problem, making it easy for users to keep track of their medication schedules. Utilizing cutting-edge web technologies, this interactive chatbot converses with users in a natural, step-by-step manner to gather crucial information like name, medication name, dosage, timing, and duration. The bot ensures user privacy by storing all data locally and using browser notifications to set up personalized reminders without requiring any login or account creation. Multiple medications with customizable schedules are supported by its user-friendly interface, which is made to be accessible to people of all ages, including non-technical users. By streamlining medication monitoring and enhancing compliance, the Medication Reminder Bot is an invaluable digital health assistant that integrates convenience, privacy, and accessibility into a single cohesive experience.

2. OBJECTIVE:

To create a chatbot that reminds users of their medications and has an easy-to-use interface.
To enable users to designate a precise time for taking their prescription drugs.
To send a reminder message and sound an alarm at the appointed time.
To assist users in consistently remembering when to take their medications.
To assist people with chronic illnesses and the elderly in managing their health.
To use automation to encourage prompt and consistent medication intake.

3. METHODOLOGY USED:

1. Requirement Gathering

- Identified the need for a simple, user-friendly bot to help users set medication reminders.
- Considered essential user inputs such as name, phone number, medicine name, and reminder time.
- Aimed for persistence of reminders and interaction through a conversational interface.

2. Frontend Design and User Interface Development

- Built using HTML5 and CSS3 for a responsive and engaging user experience.
- Chat UI was styled to differentiate between user and bot messages using custom div blocks.

3. Chat Interaction and Logic Implementation

- Developed in JavaScript to handle user inputs dynamically and simulate a chatbot conversation.
- State management was handled using a combination of global variables (like step, initialized, etc.) and conditional checks to maintain conversation flow.
- Included input validation (e.g., phone number format using regex) to ensure correctness**.**

4. Time Selection for Reminders

- Integrated interactive dropdowns for time selection (hours, minutes, AM/PM).
- Once the time is selected, the medicine reminder is stored, and the user can add additional reminders or exit.

5. Reminder Scheduling and Alerts

- The reminders are stored in an array and saved in the browser's local Storage to persist across sessions.
- An audio alert is set to play at the scheduled time using set Timeout and HTML5 <audio>.

6. Persistence and Reset

- Reminders are saved locally so they are retained even if the page is refreshed.
- Users have the option to reset the chat, which clears all saved data and restarts the interaction.

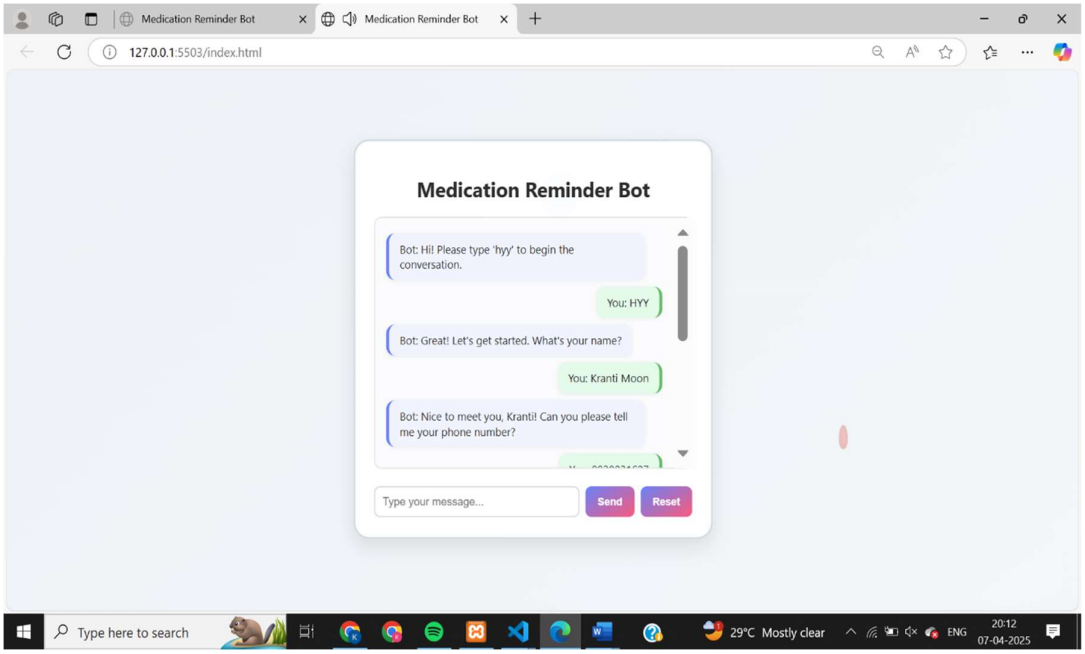
7. Testing and Debugging

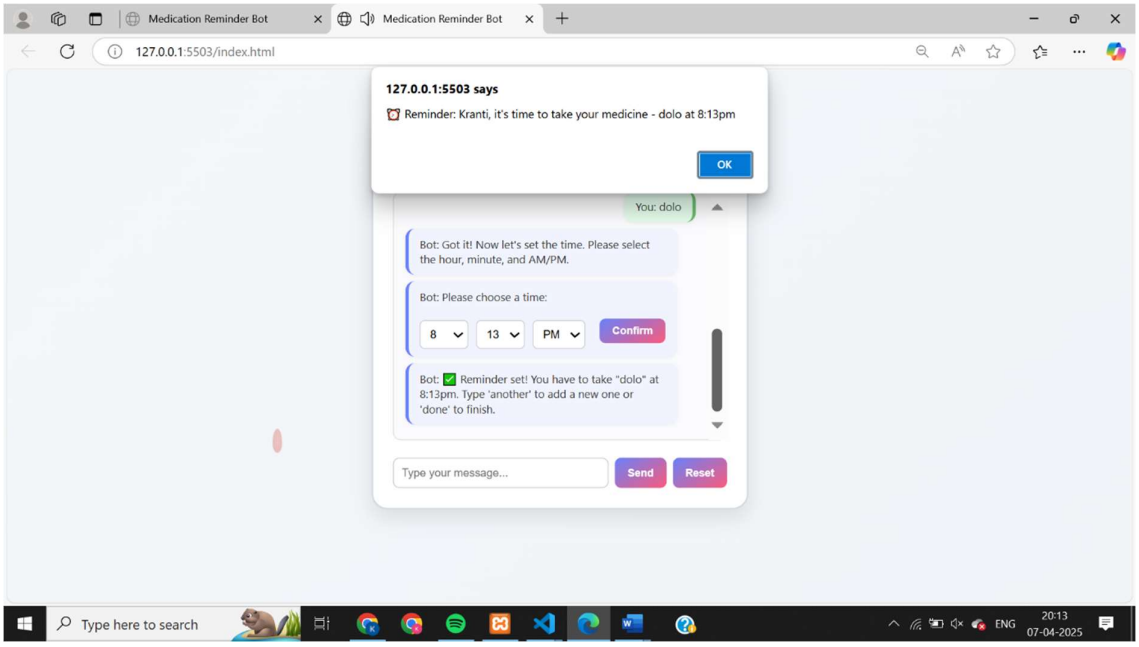
- Multiple test cases were executed to validate proper conversation flow, reminder setting, audio triggering, and reset behavior.
- Error-handling was implemented for invalid inputs, especially for phone number and command keywords.

4. GITHUB:

https://github.com/Kranti-01/Chatbot

5. SCREENSHOTS:


Medication Reminder Bot
Medication Reminder Bot
127.0.0.1:5503/index.html
Medication Reminder Bot
Bot: Hi! Please type 'hyy' to begin the conversation.
You: HYY
Bot: Great! Let's get started. What's your name?
You: Kranti Moon
Bot: Nice to meet you, Kranti! Can you please tell me your phone number?
Type your message...
Send
Reset
Type here to search
29°C Mostly clear
ENG
20:12
07-04-2025


Medication Reminder Bot
Medication Reminder Bot
127.0.0.1:5503/index.html
127.0.0.1:5503 says
Reminder: Kranti, it's time to take your medicine - dolo at 8:13pm
OK
You: dolo
Bot: Got it! Now let's set the time. Please select the hour, minute, and AM/PM.
Bot: Please choose a time:
8
13
PM
Confirm
Bot: Reminder set! You have to take "dolo" at 8:13pm. Type 'another' to add a new one or 'done' to finish.
Type your message...
Send
Reset
Type here to search
ENG
20:13
07-04-2025