

@TeamAutonoMinds

Enhance Browsing Through AutoBrowse Agent

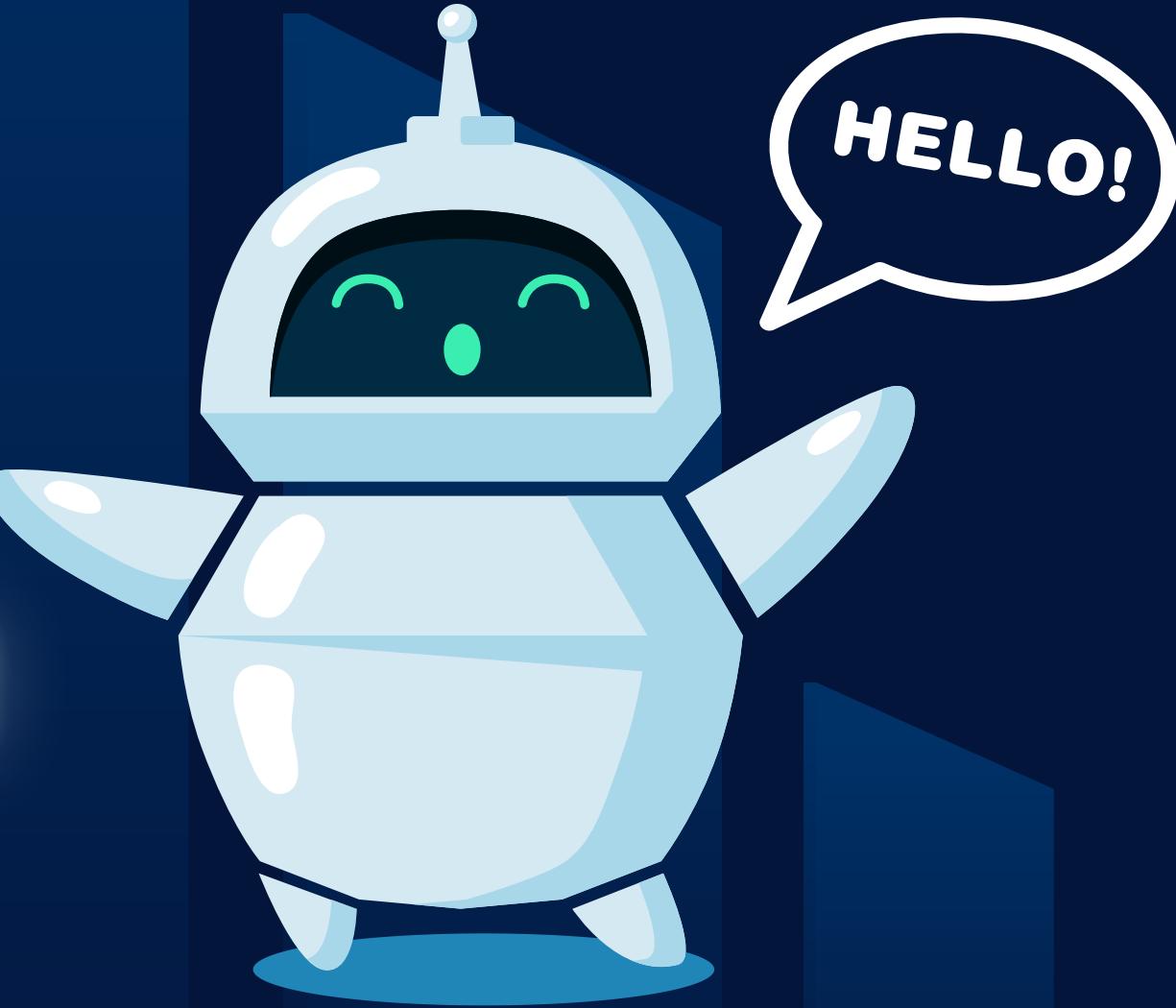
Team Members

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The Problem



- 1 Most existing browser automation tool require programming knowledge and manual scripting, making them difficult for non-technical users.
- 2 Current automation systems often lack natural, conversational interfaces, limiting their usability for everyday users.
- 3 Users want to give high-level, natural-language instructions rather than precise commands
- 4 Users often struggle to interact with their computers when input devices like the touchpad or keyboard fail

Introducing AutoBrowse

- AutoBrowse is a voice-controlled browser automation assistant designed to make web interaction seamless and hands-free.
- By understanding natural spoken language and converting it into intelligent browser actions.
- AutoBrowse empowers users to navigate the internet, perform complex tasks, and interact with web content using only their voice.
- This creates a more intuitive, accessible, and user-friendly way to browse — whether for convenience, accessibility, or as a backup when hardware fails.



» NATURAL LANGUAGE UNDERSTAND

Enables users to control the browser using natural voice commands

» UNDERSTAND COMPLEX INSTRUCTIONS

Understands complex instructions and interprets user intent intelligently

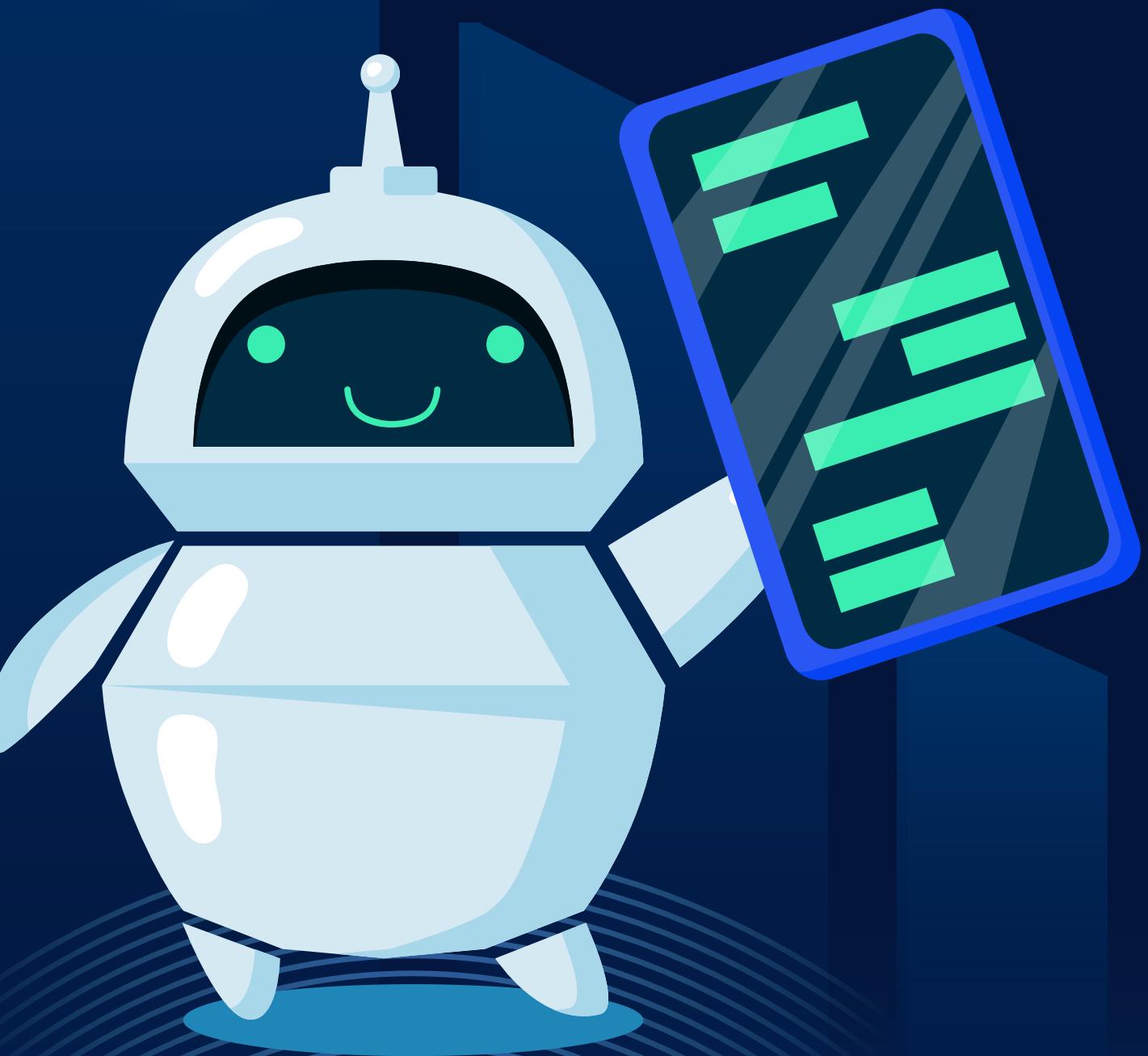
» WEB TASKS

Automates web tasks like clicking, searching, and navigating pages

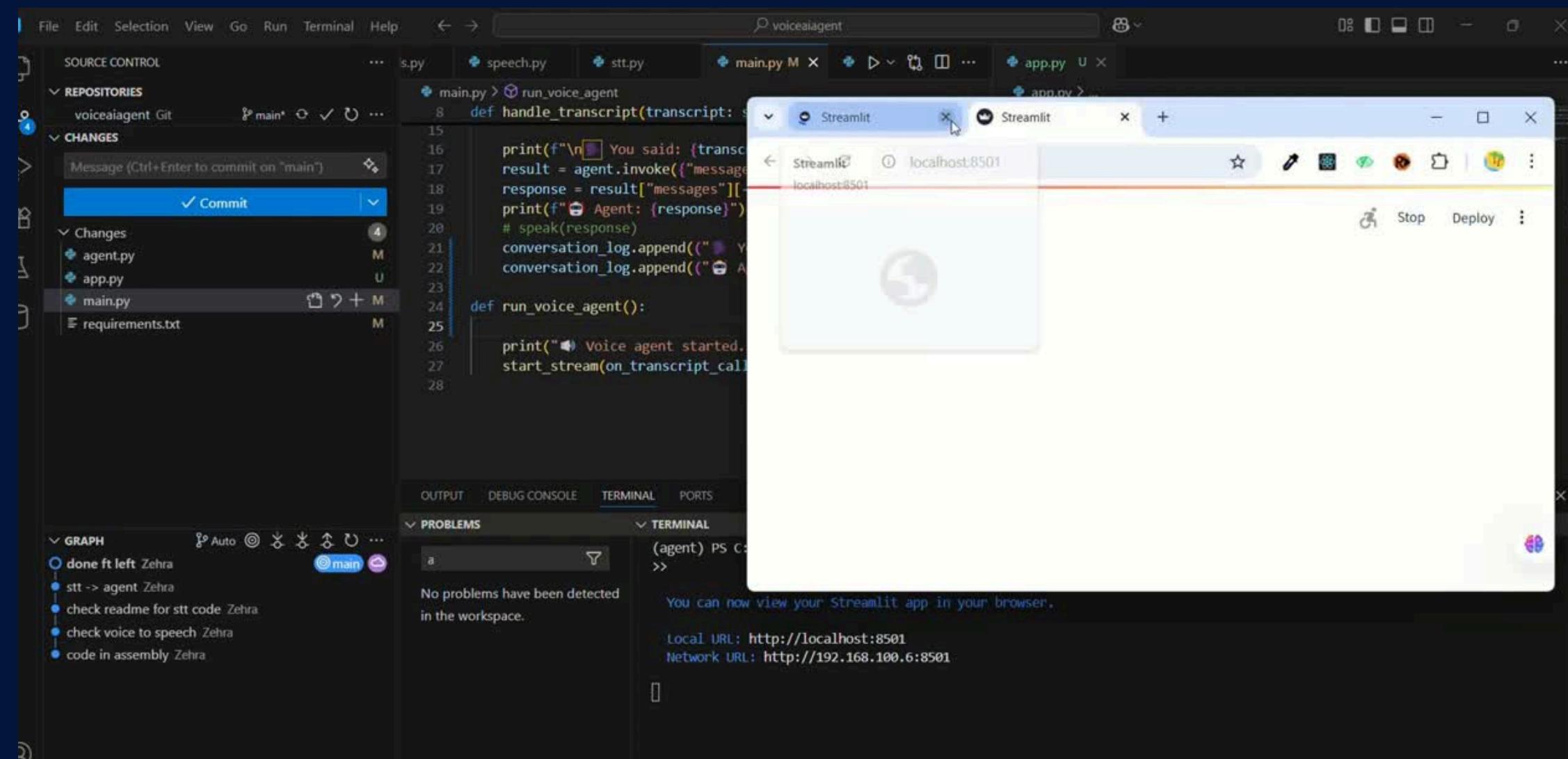
» HAND FREE CONTROL

Designed for hands-free, accessible web control, useful even when input devices are unavailable

Key Features



Demo



```
File Edit Selection View Go Run Terminal Help ↻ → 🔍 voiceagent

SOURCE CONTROL
REPOSITORIES
  ✓ voiceagent Git
    ✓ main* ✓ ...
  ✓ CHANGES
    Message (Ctrl+Enter to commit on "main")
      ✓ Commit
    ✓ Changes
      agent.py M
      app.py U
      main.py M
      requirements.txt M

main.py > run_voice_agent
8 def handle_transcript(transcript: str):
15     print(f"\nYou said: {transcript}")
16     result = agent.invoke({"message": transcript})
17     response = result["messages"][0]
18     print(f"Agent: {response['text']}")
19     # speak(response)
20     conversation_log.append(f"User: {transcript}")
21     conversation_log.append(f"Agent: {response['text']}")
22
23 def run_voice_agent():
24
25     print("Voice agent started.")
26     start_stream(on_transcript_change)

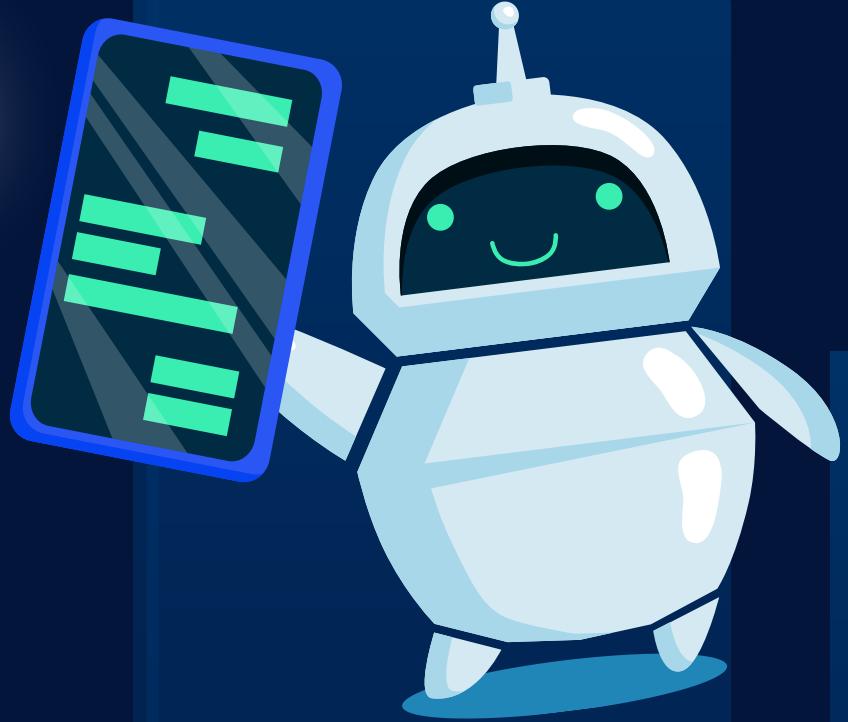
OUTPUT DEBUG CONSOLE TERMINAL PORTS
PROBLEMS TERMINAL
No problems have been detected in the workspace.
(agent) PS C:\Users\Zehra\OneDrive\Desktop\voiceagent>>
You can now view your Streamlit app in your browser.
Local URL: http://localhost:8501
Network URL: http://192.168.100.6:8501

GRAPH
done ft left Zehra
stt -> agent Zehra
check readme for stt code Zehra
check voice to speech Zehra
code in assembly Zehra
```

GitHubRepo:

https://github.com/ZehraArshad/Voice_Agent_Hackfest

Technologies used



FRONTEND

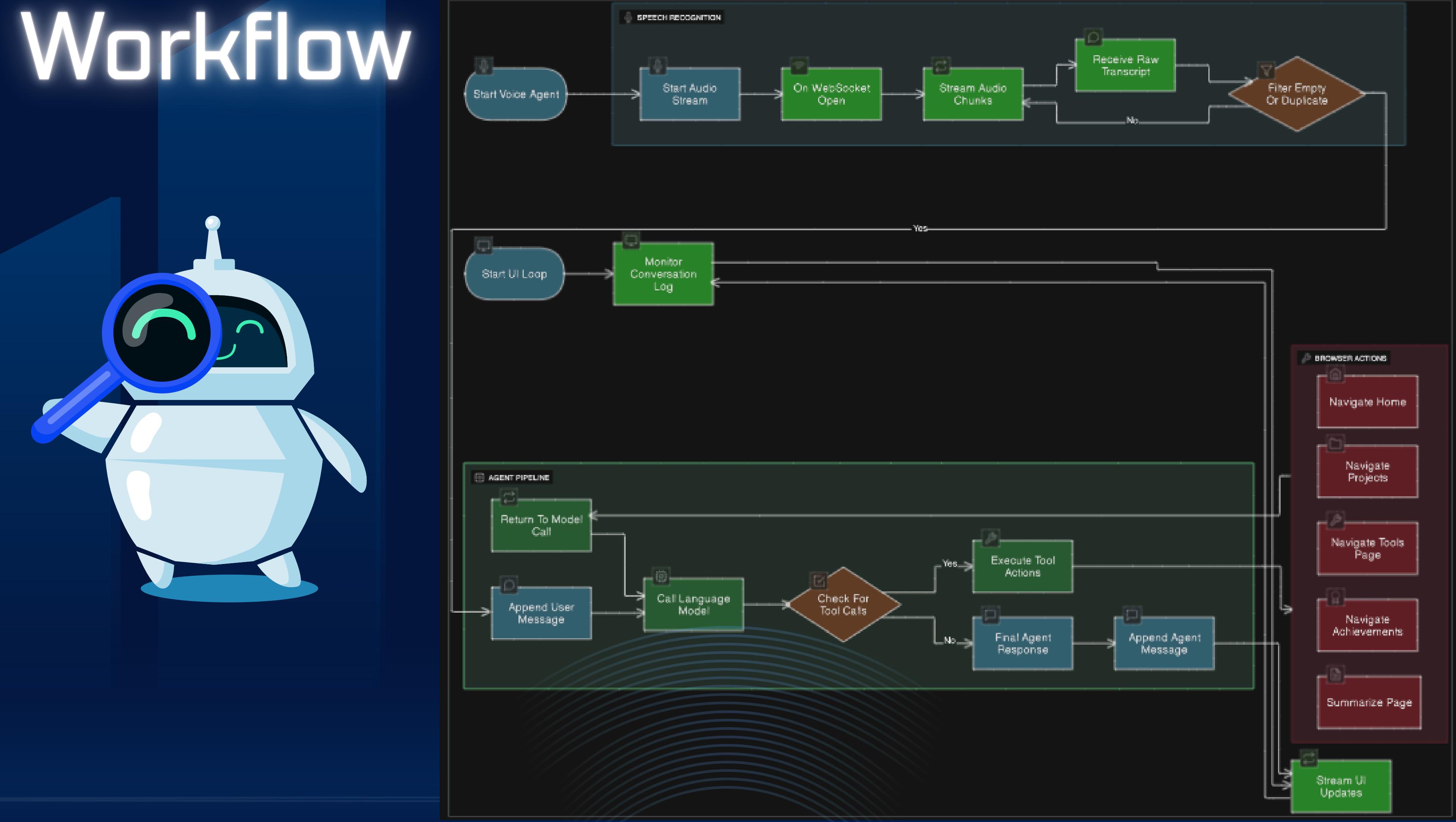


BACKEND



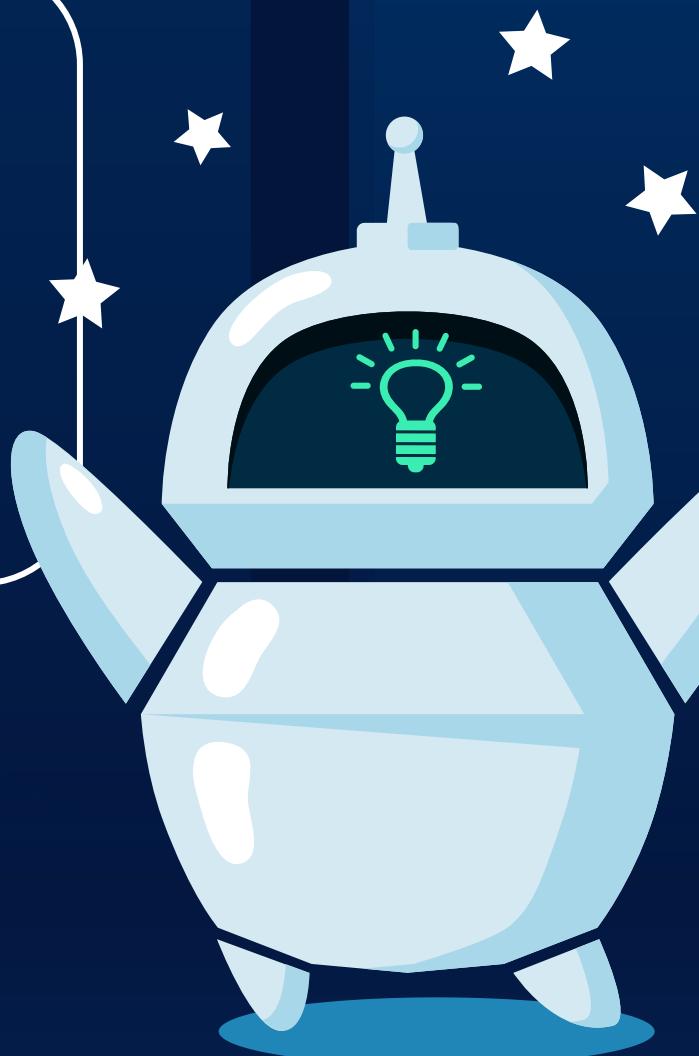
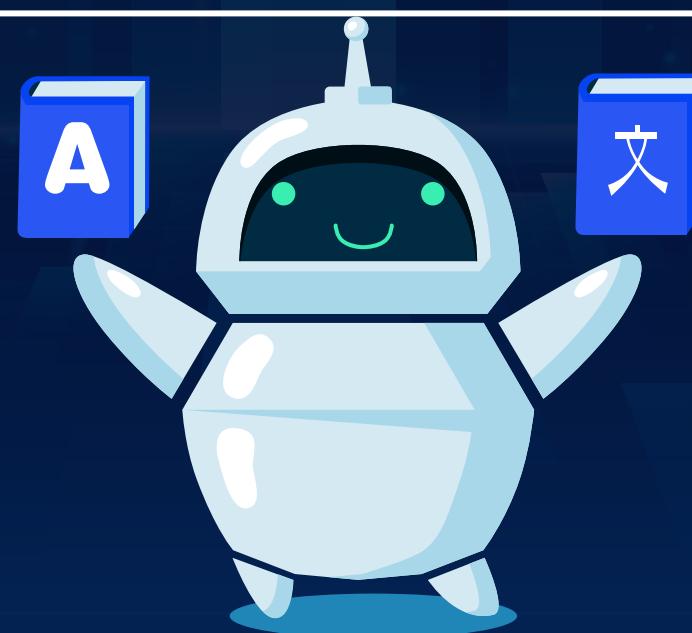
AI/LLM & DEPLOYMENT TOOLS





Conclusion:

AutoBrowse revolutionizes the way users interact with the web by combining the power of voice control with intelligent automation. Its ability to understand natural language and execute browser commands hands-free not only enhances convenience but also promotes greater accessibility for all users.



Thank You!

Feel free to give feedback
@TeamAutonoMind