






# Browser Agent – Conversational Browser Automation using AI

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**Browser Agent** is a smart AI assistant that lets users interact with their web browser conversationally — to send Gmail emails or search Google, all through natural language. It uses Groq LLMs for email generation, Selenium for automation, and Streamlit for an intuitive chat interface.

Built as part of an AI internship challenge to demonstrate real-world AI+RPA capabilities.

## Features

-  **Gmail Email Automation**  
Send Gmail messages through real-time browser automation — not APIs.  
→ Fully simulates user login, compose, and send actions with screenshot steps.
-  **Google Search via Chat**  
Perform any Google search based on user prompt.  
→ Interprets queries using regex + context, then executes via Selenium.
-  **Groq-Powered Email Generator**  
Automatically writes professional leave request emails  
→ Uses llama3-8b-8192 via Groq API for subject + body.
-  **Step-by-Step Screenshots**  
Captures and displays each stage of browser interaction  
→ Gives users full visibility into what's happening behind the scenes.
-  **Conversational Chat UX**  
Responds like a chatbot — including small talk and fallback replies.  
→ Not limited to just Gmail/Search — acts as a basic humanlike agent.

## Impact

In real-world environments where APIs are restricted or unavailable, this tool proves how powerful AI + browser automation can be:

- ✓ Automates routine workflows (like leave emails) with full transparency
- ✓ Eliminates the need for manual copy-paste or tab switching
- ✓ Provides a helpful, humanlike interface to control the browser
- ✓ Demonstrates practical Groq + Selenium synergy for real-world AI agents