

Hello there!!!

HOW I BUILT MY AI AGENT

BROWSER AUTOMATION?



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TERMS TO BE KNOWN BEFORE BUILDING AI AGENT

AI agent?

- AI agents are software systems that use AI to pursue goals and complete tasks on behalf of users.
- It can perceive its environment, make decisions, and take actions to achieve specific goals
- To be specific it's like a digital assistant that can perform tasks independently, learn from data, and adapt its behaviour over time.

Web UI:

- It refers to graphical interface users interact with when accessing and using a website or web application through a web browser.

Browser Use:

- It empowers users to automate their web tasks without human intervention.

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Ready

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1

PIP3 INSTALL BROWSER-USE



- The very first thing to start building the AI agent is install browser-use
- command:
`pip3 install browser-use`

```
Microsoft Windows [Version 10.0.26100.4349]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mythr>pip install browser-use
Collecting browser-use
  Downloading browser_use-0.4.2-py3-none-any.whl.metadata (10 kB)
Collecting aiofiles>=24.1.0 (from browser-use)
  Using cached aiofiles-24.1.0-py3-none-any.whl.metadata (10 kB)
Collecting anthropic>=0.54.0 (from browser-use)
  Downloading anthropic-0.55.0-py3-none-any.whl.metadata (27 kB)
Collecting anyio>=4.9.0 (from browser-use)
  Using cached anyio-4.9.0-py3-none-any.whl.metadata (4.7 kB)
Collecting authlib>=1.6.0 (from browser-use)
  Downloading authlib-1.6.0-py2.py3-none-any.whl.metadata (4.1 kB)
Collecting bubus>=1.2.2 (from browser-use)
  Downloading bubus-1.3.0-py3-none-any.whl.metadata (19 kB)
Collecting google-api-core>=2.25.0 (from browser-use)
  Downloading google_api_core-2.25.1-py3-none-any.whl.metadata (3.0 kB)
Collecting google-genai>=1.21.1 (from browser-use)
```

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INSTALL PLAYWRIGHT



- Playwright is an open-source automation library developed by microsoft, primarily used for testing web applications.
- It allows developers to automate browser interactions across different browsers and operating systems.
- Command:

playwright install

```
C:\Users\mythr>playwright install

C:\Users\mythr>playwright
Usage: playwright [options] [command]

Options:
  -V, --version          output the version number
  -h, --help             display help for command

Commands:
  open [options] [url]   open page in browser specified via -b, --browser
  codegen [options] [url] open page and generate code for user actions
  install [options] [browser...] ensure browsers necessary for this version of Playwright are installed
                             Removes browsers used by this installation of Playwright from the system (chromium, firefox, webkit,
                             does not include branded channels.
  install-deps [options] [browser...] install dependencies necessary to run browsers (will ask for sudo permissions)
  cr [options] [url]      open page in Chromium
  ff [options] [url]      open page in Firefox
  wk [options] [url]      open page in WebKit
  screenshot [options] <url> <filename> capture a page screenshot
  pdf [options] <url> <filename> save page as pdf
```

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Keep Going

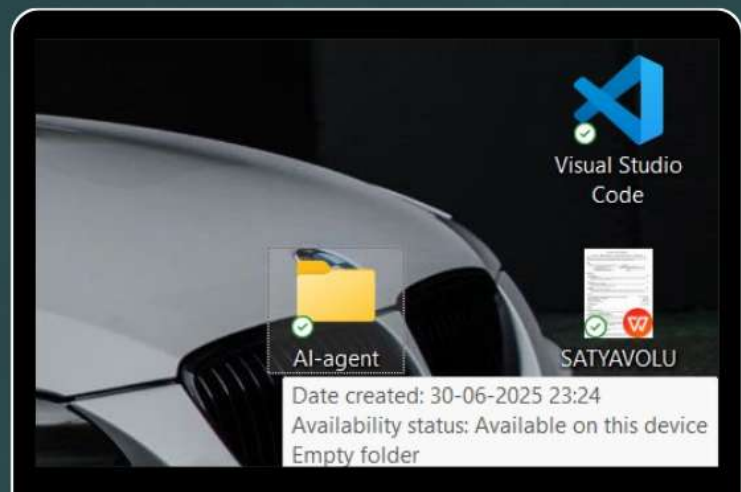
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CREATE A FOLDER

- Now it's time to create a folder named AI-agent, or you can name it of your choice on the desktop.
- You can directly right-click on the desktop and create a new folder, or create one using the command prompt.
- Command:

```
mkdir AI-agent  
cd AI-agent
```



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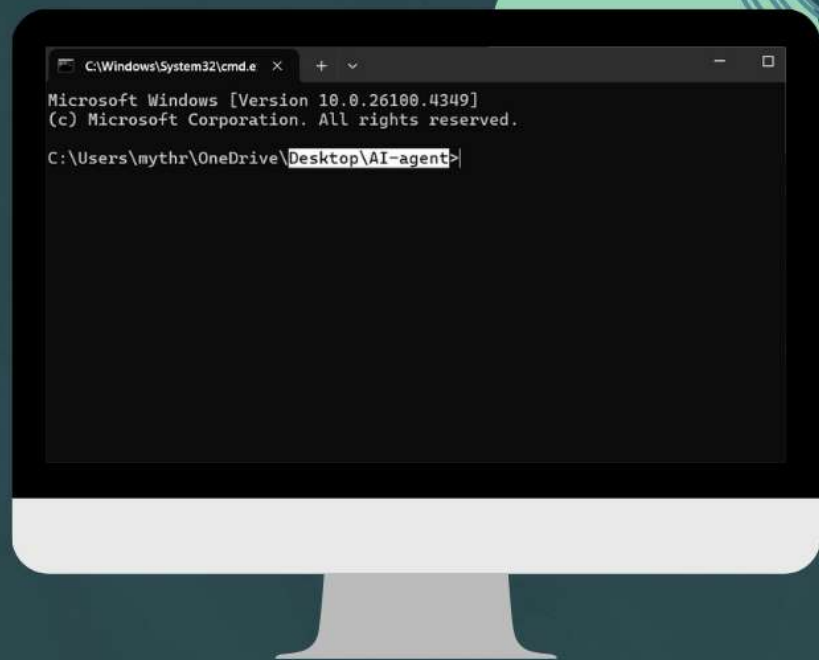


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GET INSIDE THE FOLDER

- Go inside the folder that you just created, in my case I will go inside AI-agent
- Command
`cd desktop`
`cd AI-agent`



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Halfway There

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GIT CLONE

- Now clone from git using this link
<https://github.com/browser-use/web-ui>
- You can clone it from either github or you can clone it using command prompt.
- Now type git clone followed by the url
- command:
`git clone https://github.com/browser-use/web-ui`

```
Microsoft Windows [Version 10.0.26100.4349]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mythr\OneDrive\Desktop\AI-agent>git clone https://github.com/browser-use/web-ui.git
Cloning into 'web-ui'...
remote: Enumerating objects: 2692, done.
Receiving objects: 52% (1400/2692), 8.22 MiB | 950.00 KiB/s
```

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SET UP PYTHON ENVIRONMENT (VIRTUAL ENVIRONMENT)

- We set up python's virtual environment using UV.
- UV is a relatively new, high-performance package manager written in Rust.
- Now install UV for your system

```
C:\Users\mythr\Desktop>uv
An extremely fast Python package manager.

Usage: uv [OPTIONS] <COMMAND>

Commands:
  run      Run a command or script
  init     Create a new project
  add      Add dependencies to the project
  remove   Remove dependencies from the project
  version  Read or update the project's version
  sync     Update the project's environment
  lock     Update the project's lockfile
  export   Export the project's lockfile to an alternate format
  tree     Display the project's dependency tree
  tool     Run and install commands provided by Python packages
  python   Manage Python versions and installations
  pip      Manage Python packages with a pip-compatible interface
  venv     Create a virtual environment
  build    Build Python packages into source distributions and wheels
  publish  Upload distributions to an index
  cache    Manage uv's cache
  self     Manage the uv executable
  help     Display documentation for a command

Cache options:
  -n, --no-cache      Avoid reading from or writing to the cache, instead using
                       temporary directory for the duration of the operation [env:
                       UV_NO_CACHE=]
  --cache-dir <CACHE_DIR> Path to the cache directory [env: UV_CACHE_DIR=]

Python options:
```

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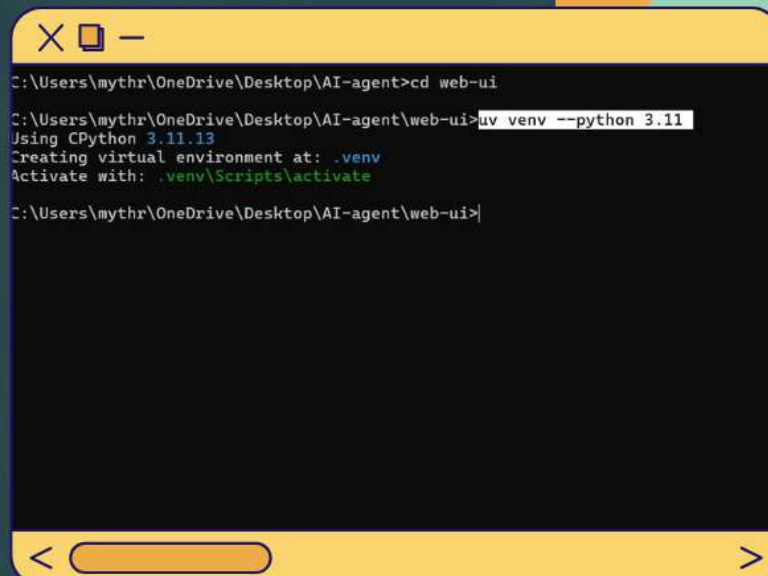
You can do it!

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CREATE (VIRTUAL ENVIRONMENT)

- Now create a virtual environment in the command prompt.
- just type in the command inside the command prompt terminal
- Command:
`uv venv --python 3.11`



```
C:\Users\mythr\OneDrive\Desktop\AI-agent>cd web-ui
C:\Users\mythr\OneDrive\Desktop\AI-agent\web-ui>uv venv --python 3.11
Using CPython 3.11.13
Creating virtual environment at: .venv
Activate with: .venv\Scripts\activate
C:\Users\mythr\OneDrive\Desktop\AI-agent\web-ui>
```

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INSTALL DEPENDENCIES

- Before actually installing the dependencies, activate the web-ui environment
- To activate the Web-ui environment just type in the terminal as `.venv\Scripts\activate`
- Now you will clearly see "(web-ui)" thi sat the very beginning of your terminal line, which means that your web-ui environment is now active.
- Now to install dependencies type in `uv pip install -r requirements.txt`
- Wait for a moment to let the dependencies install, remember not to close the window, or tap else where during the process.

```
browser-use==0.1.48
pyperclip==1.9.0
gradio==5.27.0
json-repair
langchain-mistralai==0.2.4
MainContentExtractor==0.0.4
langchain-ibm==0.3.10
langchain_mcp_adapters==0.0.9
langgraph==0.3.34
langchain-community
```

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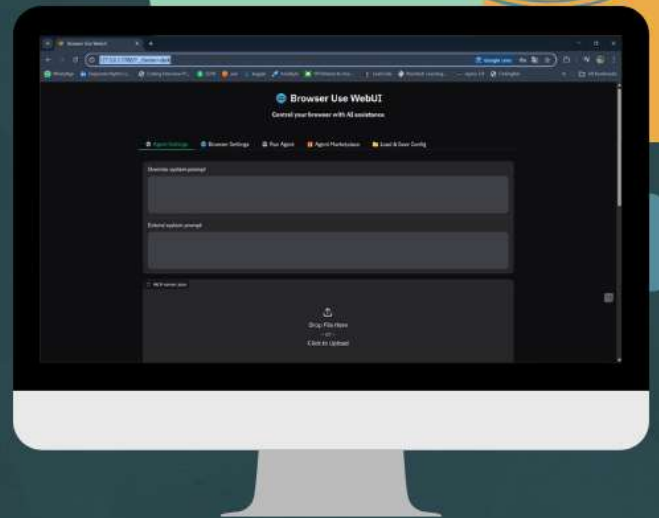
9

LOCAL SET UP

- Now it's time to run the Web-ui.
- In order to run Web-ui, we need to paste or type the following command in the terminal/command prompt.
- Command:
`python webui.py --ip 127.0.0.1 --port 7788`
- After this wait for a while to get the ip address.
- Copy the ip and paste in the browser(Chrome).
- It will bring you to the following interface.

```
C:\Users\mythr\OneDrive\Desktop\AI-agent\web-ui>python webui.py --ip 127.0.0.1 --port 7788
[telemetry] Anonymized telemetry enabled. See https://github.com/Mythril-AI/telemetry for more information.
on local URL: http://127.0.0.1:7788

a public link, set 'share=True' in 'launch()'.
```



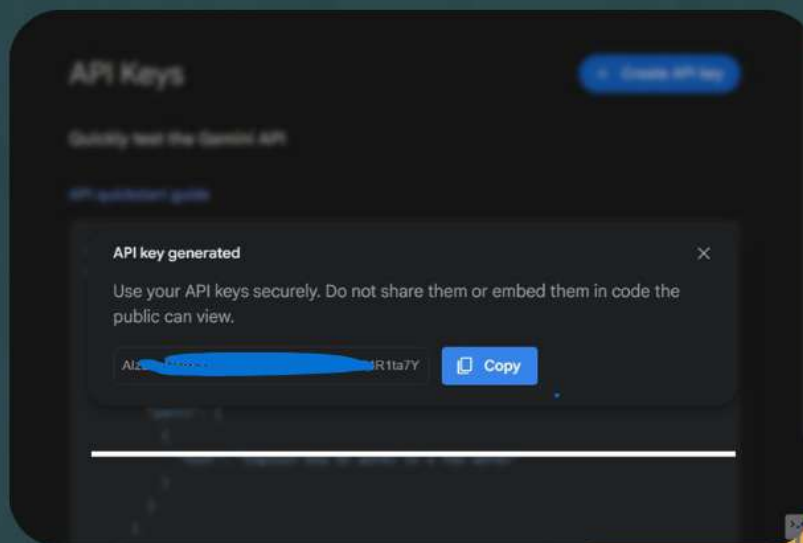
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10 CONFIGURE LLM

- Under LLM configuration section you have to select the model for your agent.
- In my case I chose google(google's gemini).
- Now get it's API key from google studio and paste it here



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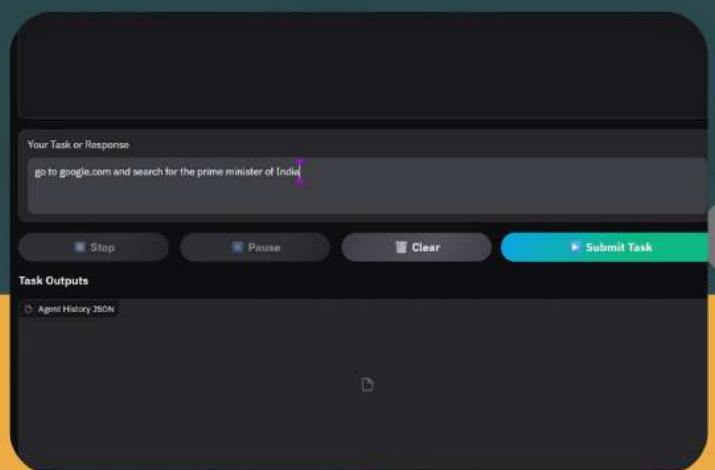
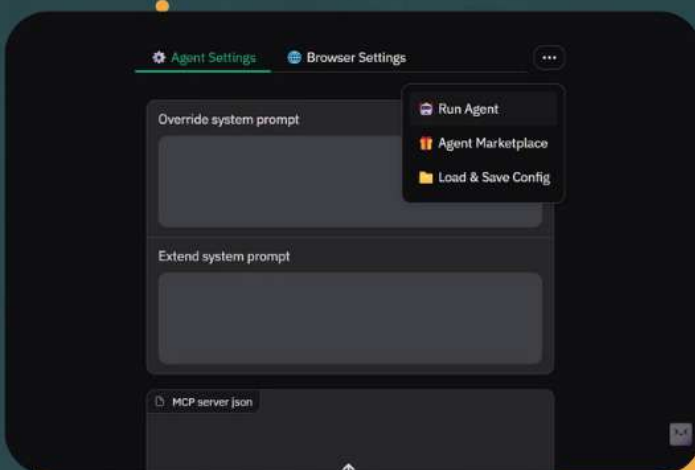
Done

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RUN YOUR AI AGENT

- Now type the prompt in the “Your Task or Response” box.
- In my case, the prompt is - “Go to Google.com and search for the prime minister of India”.
- Click the “Submit Task” button.
- The agent will automatically open Google.com and types the query in the search bar.
- The result will be finally displayed/returned to the terminal/command prompt.



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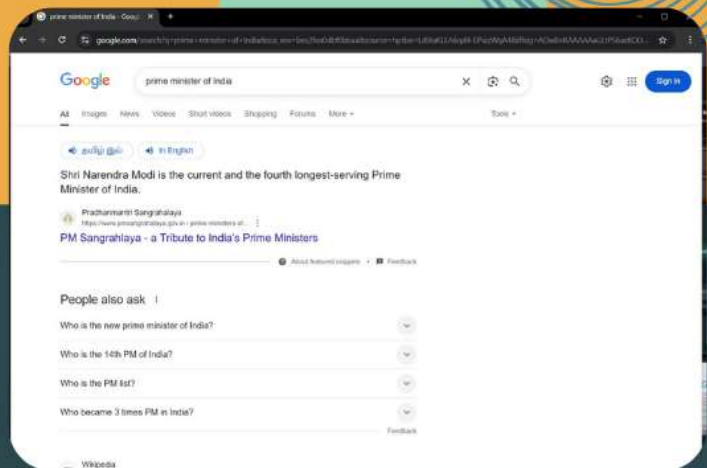
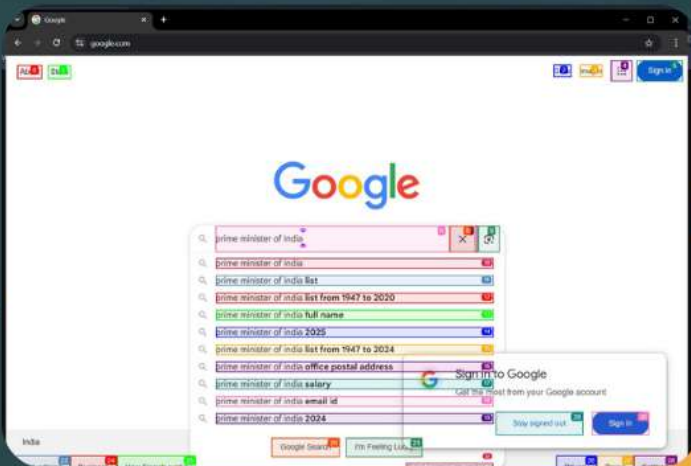
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Victory

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RUN YOUR AI AGENT



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OUTPUT IN TERMINAL

```

cal URL: http://127.0.0.1:7708

blic link, set 'share=True' in 'launch()'.
webui.components.browser_use_agent_tab] Submit button clicked for new task.
webui.components.browser_use_agent_tab] Initializing LLM: Provider=google, Model=gemini-2.0-flash, Temp=0.6
webui.components.browser_use_agent_tab] Launching new browser instance.
webui.components.browser_use_agent_tab] Creating new browser context.
webui.components.browser_use_agent_tab] Initializing new agent for task: go to google.com and search for the prime minister of India
t] Starting an agent with main_model=models/gemini-2.0-flash +vision +memory, planner_model=None, extraction_model=None
t] Expected LLM API Key environment variables might be missing for ChatGoogleGenerativeAI: GOOGLE_API_KEY
t] Agent(enable_memory=True) is set but missing some required packages, install and re-run to use memory features: pip install browser-use[memory]
t] Starting task: go to google.com and search for the prime minister of India
t] Step 1
t] Eval: Unknown - I have just started the task, so there is no previous goal to evaluate.
t] Memory: I have not performed any actions yet. The current URL is about:blank. I need to go to google.com and search for the prime minister of India.
t] Next goal: Go to google.com
t] Action 1/1: {"go_to_url":{"url":"https://www.google.com"}}
webui.components.browser_use_agent_tab] Step 1 completed.
roller] Navigated to https://www.google.com
t] Step 2
t] Eval: Success - I successfully navigated to google.com
t] Memory: I have navigated to google.com. Now I need to search for the prime minister of India.
t] Next goal: Search for the prime minister of India
t] Action 1/2: {"input_text":{"index":6,"text":"prime minister of India"}}
t] Action 2/2: {"click_element_by_index":{"index":9}}
webui.components.browser_use_agent_tab] Step 2 completed.
roller] Input prime minister of India into index 6
t] Element index changed after action 1 / 2, because page changed.
t] Eval: Success - I successfully inputted "prime minister of India" into the search bar.
t] Memory: I have navigated to google.com and entered "prime minister of India" into the search bar. Now I need to click the search button.
t] Next goal: Click the search button.
t] Action 1/1: {"click_element_by_index":{"index":20}}
webui.components.browser_use_agent_tab] Step 3 completed.
roller] Clicked button with index 20:
t] Step 4
t] Eval: Success - I successfully clicked the search button and landed on the search results page.
t] Memory: I have navigated to google.com and searched for "prime minister of India".
t] Next goal: Complete the task and use the done action.
t] Action 1/1: {"done":{"text":"I have successfully searched for the prime minister of India on Google. The current prime minister is Shri Narendra Modi."}}
webui.components.browser_use_agent_tab] Step 4 completed.
t] Result: I have successfully searched for the prime minister of India on Google. The current prime minister is Shri Narendra Modi.
t] Task completed
t] Successfully
t] Total input tokens used (approximate): 15785
webui.components.browser_use_agent_tab] Agent task finished. Duration: 34.56s, Tokens: 15785
t] Created GIF at ./tmp/agent_history\3a329efd-ad21-4fb8-a178-896fecdlacdf\3a329efd-ad21-4fb8-a178-896fecdlacdf.gif
webui.components.browser_use_agent_tab] Agent task completing...
webui.components.browser_use_agent_tab] Agent task completed processing.
webui.components.browser_use_agent_tab] Explicitly saving agent history to: ./tmp/agent_history\3a329efd-ad21-4fb8-a178-896fecdlacdf\3a329efd-ad21-4fb8-a178-896fecdlacdf.gif
webui.components.browser_use_agent_tab] GIF found at: ./tmp/agent_history\3a329efd-ad21-4fb8-a178-896fecdlacdf\3a329efd-ad21-4fb8-a178-896fecdlacdf.gif

```

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