BitBrowser - RPA User Manual

RPA User Manual and Precautions

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1. What is RPA

- Robotic Process Automation (RPA), abbreviated as RPA, is a technology for business process automation based on software robots and artificial intelligence (AI).

- RPA tools are technically similar to graphical user interface testing tools. These testing tools also automatically interact with the graphical user interface, usually by first having users demonstrate their processes and then allowing these tools to replicate them.

- BitBrowser utilizes a browser-based RPA tool, which can be employed to create automated workflows for browser operations, reducing repetitive tasks and enhancing efficiency.

- The RPA design tool employed is the Chrome extension Automa, available at https://www.automa.site/. The advantage of this extension lies in its low-code or even no-code approach, allowing for the design of workflows through a drag-and-drop block system. It is feature-rich, convenient, and user-friendly.

2. What is Workflow and How to Design Workflows

- A workflow is an ordered collection of functionalities that, following a predefined sequence, executes user-defined operational behaviors.

3. Task Scheduling

- Task Scheduling in BitBrowser
    - Immediate Execution Task
    - Scheduled Task
    - Recurring Task

- Automa's built-in Task Scheduling
    - Not recommended for use.

4. Concurrency Control

- Task Concurrency Control (number of tasks that can run simultaneously)
- Profile Concurrency Control (number of profiles that can be simultaneously opened for each task)
- Profile Execution Strategy
  - Allow RPA tasks to execute in already opened profiles.
  - Disallow direct execution of RPA tasks in already opened profiles.

Total number of open profiles = Task concurrency * profile concurrency

Eg: For example, if 5 tasks are triggered simultaneously, and each task has a profile concurrency of 6, then the total number of open profiles would be: 5 * 6 = 30

5. Considerations

a. Never forget the workflowId.

b. Don't forget to add the "Close Tab/Window" block at the end of the workflow.

c. Try to avoid binding the same task to the same profile.

d. Avoid using excessively high concurrency settings.

e. Don't forget to set timeout for tasks.

Awesome resources

- Automa Official Tutorial： https://www.automa.site/tutorials

- YouTube Channel(English): https://www.youtube.com/playlist?list=PLmSJMKhVjzF6-am-XnI7cYinmVA8KIbvl

- YouTube Channel(Chinese): https://www.youtube.com/playlist?list=PLlcH26KGVLuJbr4IoFVja0N_3i93i59Q-

- Bilibili Channel： https://space.bilibili.com/174931935/channel/collectiondetail?sid=195463

Thanks!
Welcome everyone to provide feedback on
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