

```
In [1]: import os
import json
from dotenv import load_dotenv

assert load_dotenv()
# os.environ["OPENAI_MODEL_NAME"] = "gpt-4o"
os.environ["OPENAI_MODEL_NAME"] = "gpt-4o-mini"
```

```
In [2]: from crewai import Agent, Task, Crew as Crew_old
from crewai_tools import ScrapeWebsiteTool
```

```
/Users/user/repository/.venv/lib/python3.12/site-packages/pydantic/_internal/_config.py:341: UserWarning: Valid config keys have changed in V2:
* 'underscore_attrs_are_private' has been removed
warnings.warn(message, UserWarning)
```

```
In [3]: class Crew(Crew_old):
def _finish_execution(self, final_string_output: str) -> None:
    if self.max_rpm:
        self._rpm_controller.stop_rpm_counter()
    if agentops:
        agentops.end_session(
            end_state="Success",
            end_state_reason="Finished Execution",
            is_auto_end=True, # Changed
        )
    self._telemetry.end_crew(self, final_string_output)
```

```
In [4]: import agentops
```

```
In [5]: agentops.init(
    default_tags=["dummy"],
    auto_start_session=True,
    instrument_llm_calls=True,
    skip_auto_end_session=True,
)
```

```
AgentOps: Session Replay: https://app.agentops.ai/drilldown?session\_id=419deb62-f6c5-4ad6-b88c-a8ede0df86ca
```

```
Out[5]: <agentops.session.Session at 0x15a839160>
```

```
In [6]: crew_scrape_tool = ScrapeWebsiteTool()

dummy_agent = Agent(
    role="Dummy",
    goal="You are librarian of an online library.",
    backstory=("You are the owner of the website https://books.toscrape.com/ "),
    tools=[crew_scrape_tool],
    allow_delegation=False,
    verbose=True,
)

from pydantic import BaseModel, Field
from typing import List

class Topics(BaseModel):
    """List of topics"""

    topics: List[str] = Field(description="List of one word topics")

dummy_task = Task(
    description=(
        "The task is to browse the online library website: https://books.toscrape.com/ and "
        "find a list of topics form the topics available in the website."
    ),
    tools=[crew_scrape_tool],
    expected_output="list of topics in JSON format",
    agent=dummy_agent,
    output_json=Topics,
)

dummy_crew = Crew(
    agents=[
        dummy_agent,
    ],
    tasks=[dummy_task],
    memory=False,
    verbose=True,
)
```

```
dummy_crew_output = dummy_crew.kickoff()
```

```
print(dummy_crew_output.json_dict)
```

Agent: Dummy

Task: The task is to browse the online library website: <https://books.toscrape.com/> and find a list of topics form the topics available in the website.

Agent: Dummy

Thought: I need to access the website to find the list of topics available in the online library.

Using tool: Read website content

Tool Input:

```
"{"website_url": "https://books.toscrape.com/"}"
```

Tool Output:

All products | Books to Scrape - Sandbox

Books to Scrape We love being scraped!

Home

All products

- Books
- Travel
- Mystery
- Historical Fiction
- Sequential Art
- Classics
- Philosophy
- Romance
- Womens Fiction
- Fiction
- Childrens
- Religion
- Nonfiction
- Music
- Default
- Science Fiction
- Sports and Games
- Add a comment
- Fantasy
- New Adult
- Young Adult
- Science
- Poetry
- Paranormal
- Art
- Psychology
- Autobiography
- Parenting
- Adult Fiction
- Humor
- Horror
- History
- Food and Drink
- Christian Fiction
- Business
- Biography
- Thriller
- Contemporary
- Spirituality
- Academic
- Self Help
- Historical
- Christian
- Suspense
- Short Stories
- Novels
- Health
- Politics
- Cultural
- Erotica
- Crime

All products

1000 results - showing 1 to 20.

Warning! This is a demo website for web scraping purposes. Prices and ratings here were randomly assigned and have no real meaning.

A Light in the ...

£51.77

In stock

Add to basket

Tipping the Velvet

£53.74

In stock

Add to basket

Soumission

£50.10

In stock
Add to basket
Sharp Objects
£47.82
In stock
Add to basket
Sapiens: A Brief History ...
£54.23
In stock
Add to basket
The Requiem Red
£22.65
In stock
Add to basket
The Dirty Little Secrets ...
£33.34
In stock
Add to basket
The Coming Woman: A ...
£17.93
In stock
Add to basket
The Boys in the ...
£22.60
In stock
Add to basket
The Black Maria
£52.15
In stock
Add to basket
Starving Hearts (Triangular Trade ...
£13.99
In stock
Add to basket
Shakespeare's Sonnets
£20.66
In stock
Add to basket
Set Me Free
£17.46
In stock
Add to basket
Scott Pilgrim's Precious Little ...
£52.29
In stock
Add to basket
Rip it Up and ...
£35.02
In stock
Add to basket
Our Band Could Be ...
£57.25
In stock
Add to basket
Olio
£23.88
In stock
Add to basket
Mesaerion: The Best Science ...
£37.59
In stock
Add to basket
Libertarianism for Beginners
£51.33
In stock
Add to basket
It's Only the Himalayas
£45.17
In stock
Add to basket
Page 1 of 50
next

Agent: Dummy

Final Answer:

```
{  
  "topics": [  
    "Books",  
    "Travel",  
    "Mystery",  
    "Historical Fiction",  
    "Sequential Art",
```

```

"Classics",
"Philosophy",
"Romance",
"Womens Fiction",
"Fiction",
"Childrens",
"Religion",
"Nonfiction",
"Music",
"Default",
"Science Fiction",
"Sports and Games",
"Fantasy",
"New Adult",
"Young Adult",
"Science",
"Poetry",
"Paranormal",
"Art",
"Psychology",
"Autobiography",
"Parenting",
"Adult Fiction",
"Humor",
"Horror",
"History",
"Food and Drink",
"Christian Fiction",
"Business",
"Biography",
"Thriller",
"Contemporary",
"Spirituality",
"Academic",
"Self Help",
"Historical",
"Christian",
"Suspense",
"Short Stories",
"Novels",
"Health",
"Politics",
"Cultural",
"Erotica",
"Crime"
]
}

```

```

{'topics': ['Books', 'Travel', 'Mystery', 'Historical Fiction', 'Sequential Art', 'Classics', 'Philosophy', 'Romance', 'Womens Fiction', 'Fiction', 'Childrens', 'Religion', 'Nonfiction', 'Music', 'Default', 'Science Fiction', 'Sports and Games', 'Fantasy', 'New Adult', 'Young Adult', 'Science', 'Poetry', 'Paranormal', 'Art', 'Psychology', 'Autobiography', 'Parenting', 'Adult Fiction', 'Humor', 'Horror', 'History', 'Food and Drink', 'Christian Fiction', 'Business', 'Biography', 'Thriller', 'Contemporary', 'Spirituality', 'Academic', 'Self Help', 'Historical', 'Christian', 'Suspense', 'Short Stories', 'Novels', 'Health', 'Politics', 'Cultural', 'Erotica', 'Crime']}

```

```

In [7]: dummy_agent2 = Agent(
    role="Dummy",
    goal="You are librarian of an online library.",
    backstory=("You are the owner of the website https://books.toscrape.com/ "),
    tools=[crew_scrape_tool],
    allow_delegation=False,
    verbose=True,
)

dummy_task2 = Task(
    description=(
        "The task is to browse the online library website: https://books.toscrape.com/ and find a new book which
        " is similar to this topic: {topic}, and return its name. If you are not able to find a book similar to
        "the topic, return any book name from the website you find fascinating."
    ),
    tools=[crew_scrape_tool],
    expected_output="Give the name of the book. Make sure the name is JSON serializable",
    agent=dummy_agent2,
)

dummy_crew2 = Crew(
    agents=[
        dummy_agent2,
    ],
    tasks=[dummy_task2],
    memory=False,
    verbose=True,
)

```

)

2024-10-18 15:27:49,152 - 8327000640 - __init__.py-__init__:538 - WARNING: Overriding of current TracerProvider is not allowed

In [8]: # ^^ Note the errors have disappeared:
AgentOps: Error: 'NoneType' object has no attribute 'create_agent'
AgentOps: Failed to track an agent with the @track_agent decorator.

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