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import json
import os
import pytest
from dotenv import load_dotenv
from swarm_models import OpenAlChat
from swarms.structs import BaseWorkflow
load_dotenv()
api_key = os.environ.get("OPENAI_API_KEY")
def setup_workflow():
  Ilm = OpenAlChat(openai_api_key=api_key)
  workflow = BaseWorkflow(max_loops=1)
  workflow.add("What's the weather in miami", llm)
  workflow.add("Create a report on these metrics", Ilm)
  workflow.save_workflow_state("workflow_state.json")
  return workflow
def teardown_workflow():
  os.remove("workflow_state.json")
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def test_load_workflow_state():
  workflow = setup_workflow()
  workflow.load_workflow_state("workflow_state.json")
  assert workflow.max_loops == 1
  assert len(workflow.tasks) == 2
  assert (
     workflow.tasks[0].description == "What's the weather in miami"
  assert (
     workflow.tasks[1].description
     == "Create a report on these metrics"
  )
  teardown_workflow()
def test_load_workflow_state_with_missing_file():
  workflow = setup_workflow()
  with pytest.raises(FileNotFoundError):
     workflow.load_workflow_state("non_existent_file.json")
  teardown_workflow()
def test_load_workflow_state_with_invalid_file():
  workflow = setup_workflow()
  with open("invalid_file.json", "w") as f:
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f.write("This is not valid JSON")
  with pytest.raises(json.JSONDecodeError):
    workflow.load_workflow_state("invalid_file.json")
  os.remove("invalid_file.json")
  teardown_workflow()
def test_load_workflow_state_with_missing_keys():
  workflow = setup_workflow()
  with open("missing_keys.json", "w") as f:
    json.dump({"max_loops": 1}, f)
  with pytest.raises(KeyError):
    workflow.load_workflow_state("missing_keys.json")
  os.remove("missing_keys.json")
  teardown_workflow()
```