```
import inspect
import os
import re
import threading
from dotenv import load_dotenv
from swarms_memory import DictInternalMemory, DictSharedMemory
from scripts.auto_tests_docs.docs import TEST_WRITER_SOP_PROMPT
from swarm_models import OpenAlChat
load_dotenv()
api_key = os.getenv("OPENAI_API_KEY")
model = OpenAlChat(
  openai_api_key=api_key,
  max_tokens=4000,
)
# agent = Agent(
    Ilm=model,
#
#
    agent_name="Unit Testing Agent",
#
    agent_description=(
      "This agent is responsible for generating unit tests for"
#
      " the swarms package."
#
```

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#
    autosave=True,
    system_prompt=None,
#
#
    max_loops=1,
#)
def extract_code_from_markdown(markdown_content: str):
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  Extracts code blocks from a Markdown string and returns them as a single string.
  Args:
  - markdown_content (str): The Markdown content as a string.
  Returns:
  - str: A single string containing all the code blocks separated by newlines.
  11 11 11
  # Regular expression for fenced code blocks
  pattern = r"```(?:\w+\n)?(.*?)```"
  matches = re.findall(pattern, markdown_content, re.DOTALL)
  # Concatenate all code blocks separated by newlines
  return "\n".join(code.strip() for code in matches)
def create_test(cls):
```

#

),

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```

Process the documentation for a given class using OpenAl model and save it in a Python file. doc = inspect.getdoc(cls) source = inspect.getsource(cls) input_content = ("Class Name:" f" {cls.__name__}\n\nDocumentation:\n{doc}\n\nSource" f" Code:\n{source}") # Process with OpenAl model (assuming the model's __call__ method takes this input and returns processed content) processed_content = model(TEST_WRITER_SOP_PROMPT(input_content, "swarms", "swarms.memory")) processed_content = extract_code_from_markdown(processed_content) doc_content = f"# {cls.__name__}\n\n{processed_content}\n" # Create the directory if it doesn't exist dir_path = "tests/memory" os.makedirs(dir_path, exist_ok=True)

```
# Write the processed documentation to a Python file
  file_path = os.path.join(dir_path, f"{cls.__name__.lower()}.py")
  with open(file_path, "w") as file:
     file.write(doc_content)
def main():
  classes = [
     DictInternalMemory,
     DictSharedMemory,
  ]
  threads = []
  for cls in classes:
     thread = threading.Thread(target=create_test, args=(cls,))
     threads.append(thread)
     thread.start()
  # Wait for all threads to complete
  for thread in threads:
     thread.join()
  print("Tests generated in 'tests/memory' directory.")
if __name__ == "__main__":
  main()
```