```
import json
from typing import Any, List
import inspect
from typing import Callable
from swarms.utils.formatter import formatter
def scrape_tool_func_docs(fn: Callable) -> str:
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   Scrape the docstrings and parameters of a function decorated with 'tool' and return a formatted
string.
  Args:
     fn (Callable): The function to scrape.
  Returns:
      str: A string containing the function's name, documentation string, and a list of its parameters.
Each parameter is represented as a line containing the parameter's name, default value, and
annotation.
  ....
  try:
     # If the function is a tool, get the original function
     if hasattr(fn, "func"):
       fn = fn.func
```

```
signature = inspect.signature(fn)
  parameters = []
  for name, param in signature.parameters.items():
     parameters.append(
       f"Name: {name}, Type:"
       f" {param.default if param.default is not param.empty else 'None'},"
       " Annotation:"
       f" {param.annotation if param.annotation is not param.empty else 'None'}"
    )
  parameters_str = "\n".join(parameters)
  return (
    f"Function: {fn.__name__}\nDocstring:"
    f" {inspect.getdoc(fn)}\nParameters:\n{parameters_str}"
  )
except Exception as error:
  (
    formatter.print_panel(
       f"Error scraping tool function docs {error} try"
       " optimizing your inputs with different"
       " variables and attempt once more."
    ),
  )
  raise error
```

```
def tool_find_by_name(tool_name: str, tools: List[Any]):
  """Find the tool by name"""
  for tool in tools:
     if tool.name == tool_name:
       return tool
  return None
def is_str_valid_func_output(
  output: str = None, function_map: callable = None
):
   Check if the output is a valid JSON string, and if the function name in the JSON matches any
name in the function map.
  Args:
     output (str): The output to check.
    function_map (dict): A dictionary mapping function names to functions.
  Returns:
     bool: True if the output is valid and the function name matches, False otherwise.
  try:
    # Parse the output as JSON
     data = json.loads(output)
```

```
# Check if the output matches the schema
  if (
    data.get("type") == "function"
    and "function" in data
    and "name" in data["function"]
  ):
    # Check if the function name matches any name in the function map
    function_name = data["function"]["name"]
    if function_name in function_map:
       return True
except json.JSONDecodeError:
  pass
return False
```