[REPO\_MAP]:

|-- [main.py]

| |-- Flask app creation

| |-- Version check

| |-- Configuration setup

| |-- Database initialization

| |-- Route setup

| |-- App context and server start

|

[.app]

|-- [\_\_init\_\_.py]

|

|-- [routes.py]

| |-- setup\_routes(app)

| |-- index()

| |-- chat()

| |-- register()

| |-- register\_page()

| |-- settings\_page()

| |-- login()

| |-- update\_key()

| |-- get\_user\_state()

| |-- set\_user\_state()

| |-- run()

| |-- start()

| |-- list\_assistants()

|

|-- [.functions]

| |-- [\_\_init\_\_.py]

| |

| |-- [chat\_types.py]

| | |-- duo\_i(initial\_input, agent\_1, agent\_2, giint\_thread, max\_iterations)

| | |-- x\_poll(assistant\_ids, team\_leader\_id, initial\_input, giint\_thread)

| |

| |-- [tools.py]

| | |-- giint(arguments, context, giint\_thread)

| | |-- awaken\_assistant(arguments, context, giint\_thread)

| | |-- giint\_flow(arguments, context, giint\_thread)

| | |-- SDNA\_Progenitor(arguments, context, giint\_thread)

| | |-- SDNA\_Chaining(arguments, context, giint\_thread)

| | |-- SDNA\_Morph(arguments, context, giint\_thread)

| | |-- procreate(domain, context, giint\_thread)

| |

| |-- [utils.py]

| |-- get\_single\_response(response)

| |-- get\_combined\_response(response)

| |-- get\_instructions(instruction\_names, additional\_instructions)

| |-- get\_tools(tool\_names)

| |-- get\_schema(agent\_type, domain)

|

|-- [.services]

| |-- [\_\_init\_\_.py]

| |

| |-- [chat\_services.py]

| | |-- render\_index()

| | |-- render\_chat()

| | |-- render\_register()

| | |-- render\_settings()

| | |-- handle\_start(data, config)

| | |-- handle\_run(data, config)

| | |-- handle\_list\_assistants(data, config)

| |

| |-- [openai\_client.py]

| | |-- OpenAIClientWrapper

| | |-- \_\_init\_\_(api\_key)

| | |-- create\_file(file\_path, purpose)

| | |-- create\_assistant(model, name, description, instructions, tools, file\_paths, metadata)

| | |-- delete\_assistant(assistant\_id)

| | |-- add\_assistant\_file(assistant\_id, file\_id)

| | |-- get\_assistant(assistant\_id)

| | |-- get\_assistant\_list(limit, order)

| | |-- create\_thread()

| | |-- add\_messages(thread\_id, messages)

| | |-- get\_message\_list(thread\_id)

| | |-- get\_message(thread\_id, message\_id)

| | |-- create\_run(thread\_id, assistant\_id)

| | |-- get\_run(thread\_id, run\_id)

| | |-- submit\_tool\_outputs(thread\_id, run\_id, tool\_outputs)

| | |-- exec\_run(thread\_id, messages, assistant\_id, context, giint\_thread)

| | |-- thread\_and\_run(assistant\_id, system\_message)

| |

| |-- [models.py]

| | |-- User

| | |-- id

| | |-- email

| | |-- password\_hash

| | |-- api\_key

| | |-- state

| | |-- set\_password(password)

| | |-- check\_password(password)

| | |-- get\_state()

| | |-- set\_state(state\_data)

| |

| |-- [auth\_services.py]

| |-- generate\_token(email, secret\_key, expiration)

| |-- verify\_token(token, secret\_key)

| |-- register\_user(email, password)

| |-- login\_user(email, password, secret\_key)

| |-- update\_api\_key(user, api\_key)

|

|-- [.giint]

| |-- [\_\_init\_\_.py]

| |

| |-- [giint\_agent.py]

| | |-- GiintAgent

| | |-- \_\_init\_\_(client, agent\_id, domain, agent\_type, assistant\_id, additional\_instructions)

| | |-- awaken(agent\_type, domain, additional\_instructions)

| | |-- to\_json()

| | |-- from\_json(client, data)

| |

| |-- [giint\_thread.py]

| | |-- GiintThread

| | |-- \_\_init\_\_(client, giint\_id, main\_agent\_id, main\_thread\_id)

| | |-- get\_context(thread\_id)

| | |-- add\_auxiliary\_agent\_thread(auxiliary\_agent\_id)

| | |-- remove\_auxiliary\_agent\_thread(auxiliary\_agent\_id)

| | |-- to\_json()

| | |-- from\_json(client, data)

| |

| |-- [giint\_factories.py]

| | |-- GiintAgentFactory

| | | |-- create\_agent(client, domain, agent\_type, assistant\_id, additional\_instructions)

| | |

| | |-- GiintThreadFactory

| | |-- create\_thread(client, main\_agent\_id)

| |

| |-- [giint\_repositories.py]

| |-- GiintAgentRepository

| | |-- save(agent)

| | |-- find\_by\_id(client, agent\_id)

| | |-- load\_agents()

| |

| |-- GiintThreadRepository

| |-- save(thread)

| |-- find\_by\_id(client, thread\_id)

| |-- load\_threads()

|

|-- [.files]

| |-- [\_\_init\_\_.py]

| |

| |-- [assistant\_schema.json]

| | |-- main\_agent

| | | |-- default

| | | |-- model

| | | |-- name

| | | |-- description

| | | |-- instruction\_names

| | | |-- tool\_names

| | | |-- file\_paths

| | | |-- metadata

| | |-- user\_proxy\_agent

| | | |-- default

| | | |-- (same structure as main\_agent)

| | |-- duo\_agent

| | | |-- default

| | | |-- (same structure as main\_agent)

| | |-- progeny\_agent

| | | |-- default

| | | |-- (same structure as main\_agent)

| | |-- progenitor\_agent

| | | |-- default

| | | |-- (same structure as main\_agent)

| | |-- chaining\_agent

| | | |-- default

| | | |-- (same structure as main\_agent)

| | |-- morph\_agent

| | |-- default

| | |-- (same structure as main\_agent)

| |

| |-- [giint\_agents.json]

| | |-- (agent\_id)

| | |-- agent\_id

| | |-- assistant\_id

| | |-- domain

| | |-- agent\_type

| |

| |-- [giint\_threads.json]

| | |-- (giint\_id)

| | |-- giint\_id

| | |-- main\_agent\_id

| | |-- main\_thread\_id

| | |-- tool\_agent\_id

| | |-- tool\_thread\_id

| | |-- auxiliary\_agents\_threads

| |

| |-- [instructions.json]

| | |-- main\_agent\_instructions

| | |-- main\_tool\_instructions

| | |-- duo\_agent\_instructions

| | |-- duo\_agent\_tool\_instructions

| | |-- user\_proxy\_instructions

| | |-- user\_proxy\_tool\_instructions

| | |-- progeny\_agent\_instructions

| | |-- progenitor\_instructions

| | |-- chaining\_instructions

| | |-- morph\_instructions

| |

| |-- [tools.json]

| |-- knowledge\_retrieval

| | |-- type

| |-- code\_interpreter

| | |-- type

| |-- main\_tools

| | |-- type

| | |-- function

| | |-- name

| | |-- parameters

| | |-- description

| |-- duo\_tools

| | |-- (same structure as main\_tools)

| |-- user\_proxy\_tools

| | |-- (same structure as main\_tools)

| |-- sdna\_progenitor

| | |-- (same structure as main\_tools)

| |-- sdna\_morph

| |-- (same structure as main\_tools)

|

|-- [.templates]

| |-- [index.html]

| | |-- div.top-banner

| | |-- div.login-container

| | |-- div.email-input-container

| | |-- div.password-container

| | |-- button#login-submit

| | |-- button#go-to-register

| |

| |-- [chat.html]

| | |-- div.top-banner#draggable-banner

| | | |-- pre#ascii-logo.ascii-art

| | | |-- div.console-log#console-log

| | | |-- div.resize-handle

| | |-- div.main-content

| | | |-- div.chat-window#chat-window-1

| | | | |-- header.chat-header

| | | | |-- div.chat-container#chat-container-1

| | | | |-- div.chat-input-container

| | | |-- button#new-window-button

| | | |-- button#go-to-settings.nav-button

| | | |-- select#saved-windows-dropdown

| | |-- div.side-window#side-window

| | |-- button.collapse-button#collapse-button

| | |-- div.transcript-directory#transcript-directory

| | |-- div.transcript-display#transcript-display

| | |-- button.back-button#back-button

| | |-- div.transcript-messages#transcript-messages

| | |-- button.expand-button#expand-button

| |

| |-- [register.html]

| | |-- div.register-container

| | |-- div.email-container

| | |-- div.password-container

| | |-- button#register-submit

| |

| |-- [settings.html]

| |-- div.settings-container

| |-- div.api-key-container

| |-- button#update-api-key

|

|

|-- [.static]

|-- [api.js]

| |-- fetchConsoleMessages()

| |-- sendToServer(message, chatWindowNumber, isConsoleMessage)

| |-- refreshAssistantList()

| |-- fetchTranscripts()

| |-- sendTitleToBackend(title)

| |-- getUserState(token)

| |-- setUserState(token, state)

| |-- register(email, password)

| |-- login(email, password)

| |-- updateApiKey(token, apiKey)

|

|-- [chat.js]

| |-- sendMessage(chatWindowNumber)

| |-- saveCurrentChat(chatWindowNumber)

| |-- startNewChat(chatWindowNumber)

| |-- loadSavedChatHistory(chatWindowNumber, historyIndex)

| |-- loadAndDisplayChatHistory(chatWindowNumber)

| |-- addAssistantRadioButtons(chatWindowNumber)

| |-- restoreRadioButtons(chatWindowNumber)

| |-- saveWindow(windowNumber)

| |-- initializeNewChatWindow(windowNumber)

|

|-- [chatEntryPoint.js]

| |-- Event listeners and initialization for the chat page

|

|-- [localStorage.js]

| |-- loadTranscriptsFromLocalStorage()

|

|-- [loginEntryPoint.js]

| |-- Event listeners and initialization for the login page

|

|

|-- [registerEntryPoint.js]

| |-- Event listeners and initialization for the registration page

|

|-- [settingsEntryPoint.js]

| |-- Event listeners and initialization for the settings page

|

|-- [state.js]

| |-- globalState object

| |-- getStateValue(key)

| |-- setStateValue(key, value, syncWithBackend)

| |-- fetchAndInitializeUserState(token)

| |-- getUserState(token)

| |-- initializeGlobalStateFromBackend(userState)

| |-- updateBackendState()

| |-- loadSelectedHistoryIndexes()

|

|-- [style.css]

| |-- CSS styles for the entire chat interface

|

|-- [ui.js]

| |-- displayMessage(message, type, chatWindowNumber, isWaitingAnimation, assistantName)

| |-- displayConsoleMessage(consoleMessage)

| |-- displayTranscriptDirectory()

| |-- displayTranscript(index)

| |-- createWaitingAnimation()

| |-- toggleSideWindow()

| |-- autoExpandTextarea(event)

| |-- populateAssistantDropdowns(chatWindowNumber)

| |-- populateHistoryDropdowns()

| |-- populateSavedWindowsDropdown()

| |-- loadSavedBorderColors()

| |-- applySavedBorderColor(windowNumber)

| |-- addColorPickerEventListener(windowNumber)

| |-- makeTitleEditable(windowNumber)

| |-- saveNewTitle(windowNumber)

| |-- applySavedWindowTitle(windowNumber)

| |-- recreateSavedWindows()

| |-- createNewChatWindow(initialize)

| |-- createNewChatWindowWithSavedState(savedWindowStateIndex)

| |-- closeChatWindow(windowNumber)

| |-- changeBorderColor(color, windowNumber)

| |-- addEventListenersToWindow(windowNumber)

| |-- initializeApplicationState()

| |-- doDrag(e, banner, startY, startHeight)

| |-- stopDrag(e, doDragBound, stopDragBound)

| |-- initializeTextareaFocus()

| |-- pasteTranscriptTitle(title)

| |-- initializeSideWindow()

|

|-- [utils.js]

|-- handleConsoleMessage(consoleMessage)

|-- sendConsoleMessageToAssistant(consoleMessage)

|-- displayWaitingAnimationAndDisableInput()

|-- enableUserInput()

|-- queueConsoleMessage(consoleMessage)

|-- processNextConsoleMessageInQueue()

|-- addConsoleLogMessage(message, isWaiting)

|-- handleKeydownToSendMessage(event, chatWindowNumber)

|-- removeSelectedAssistantRadioButton(chatWindowNumber)

|-- loadSelectedAssistantDropdownIds()

|-- saveDropdownStates()

|-- loadDropdownStates()

|-- applySavedDropdownStates()

[/REPO\_MAP]

[APPLICATION\_DESCRIPTION]:  
  
The provided codebase is a Flask web application designed to interface with OpenAI's GPT models, specifically customized versions of ChatGPT for a particular use case. The application is structured to handle user interactions, manage AI agents, and facilitate complex conversations with the help of various tools and services. Below is a detailed description of the application's structure and components based on the provided repository map.

### Flask Application Setup (`main.py`)

The Flask application is initialized in `main.py`, which serves as the entry point. It performs several critical functions:

- \*\*Version Check\*\*: Ensures the OpenAI library version meets the required minimum.

- \*\*Flask App Creation\*\*: Instantiates the Flask app and sets up template and static folders.

- \*\*Configuration Setup\*\*: Configures the app with a secret key and database URI from environment variables.

- \*\*Database Initialization\*\*: Initializes SQLAlchemy with the Flask app for ORM support.

- \*\*Route Setup\*\*: Defines the routes for the web application by calling `setup\_routes(app)`.

- \*\*App Context and Server Start\*\*: Creates the database tables within the application context and runs the Flask server.

### Routes (`routes.py`)

This module sets up the endpoints for the web application:

- \*\*Home Page\*\*: Renders the login page.

- \*\*Chat Interface\*\*: Renders the main chat interface after login.

- \*\*User Registration\*\*: Handles new user registration requests and renders the registration page.

- \*\*Settings Page\*\*: Renders the page where users can update their API key.

- \*\*User Authentication\*\*: Handles user login requests and updates API keys.

- \*\*State Management\*\*: Retrieves and sets the user's state, which includes their session information and chat history.

- \*\*Chat Operations\*\*: Handles starting new chat sessions and processing user messages through the `run` and `start` endpoints.

- \*\*Assistant Management\*\*: Lists available assistants for the user to interact with.

### Functions (`functions` directory)

This directory contains modules that define various chat types and tools used within the application.

#### Chat Types (`chat\_types.py`)

- \*\*Duo Interaction (`duo\_i`)\*\*: Simulates a conversation between a user proxy and a duo agent for a given number of iterations.

- \*\*X Poll (`x\_poll`)\*\*: Orchestrates a complex conversation involving multiple specialized AI assistants and a team leader.

#### Tools (`tools.py`)

- \*\*GIINT (`giint`)\*\*: Invoked in response to every user message, returning a conversation transcript between a duo assistant and a user proxy.

- \*\*Awaken Assistant (`awaken\_assistant`)\*\*: Used to initiate the conversation with an AI assistant based on the user's query domain.

- \*\*GIINT Flow (`giint\_flow`)\*\*: Called when a user query requires attention from additional experts, running asynchronously in the background.

- \*\*SDNA Progenitor (`SDNA\_Progenitor`)\*\*: Generates an SDNA profile for a given domain.

- \*\*SDNA Chaining (`SDNA\_Chaining`)\*\*: Constructs chains for enhanced latent space manipulation.

- \*\*SDNA Morph (`SDNA\_Morph`)\*\*: Morphs constructs for a given context.

- \*\*Procreate (`procreate`)\*\*: Generates additional instructions for agents based on the domain and context.

#### Utilities (`utils.py`)

- \*\*Response Handling\*\*: Functions to get single or combined responses from a list of messages.

- \*\*Instruction Retrieval\*\*: Functions to fetch instructions and tools for agents based on their type and domain.

- \*\*Schema Retrieval\*\*: Retrieves the schema for an agent type and domain.

### Services (`services` directory)

This directory contains modules that provide various services required by the application.

#### Chat Services (`chat\_services.py`)

- \*\*Rendering Pages\*\*: Functions to render different pages of the web application.

- \*\*Chat Handling\*\*: Functions to handle starting new chat sessions and processing user messages.

#### OpenAI Client Wrapper (`openai\_client.py`)

- \*\*OpenAIClientWrapper\*\*: A wrapper class around the OpenAI API, providing methods to interact with the OpenAI services, such as creating assistants, threads, and running the assistants.

#### Models (`models.py`)

- \*\*User\*\*: A SQLAlchemy model representing a user, including methods for password management and state retrieval.

#### Authentication Services (`auth\_services.py`)

- \*\*Token Management\*\*: Functions to generate and verify authentication tokens.

- \*\*User Registration and Login\*\*: Functions to handle user registration and login processes.

### GIINT Modules (`giint` directory)

This directory contains modules related to GIINT agents and threads.

#### GIINT Agent (`giint\_agent.py`)

- \*\*GiintAgent\*\*: Represents an AI agent, capable of being awakened and serialized to JSON.

#### GIINT Thread (`giint\_thread.py`)

- \*\*GiintThread\*\*: Manages conversation threads, including context retrieval and auxiliary agent management.

#### Factories (`giint\_factories.py`)

- \*\*GiintAgentFactory\*\*: Factory for creating GIINT agents.

- \*\*GiintThreadFactory\*\*: Factory for creating GIINT threads.

#### Repositories (`giint\_repositories.py`)

- \*\*GiintAgentRepository\*\*: Manages the persistence of GIINT agents.

- \*\*GiintThreadRepository\*\*: Manages the persistence of GIINT threads.

### Templates (`templates` directory)

Contains HTML templates for the web application's pages, including the login, chat interface, registration, and settings pages.

### Static Files (`static` directory)

Contains JavaScript modules, CSS styles, and entry point scripts for handling the client-side logic of the application.

#### JavaScript Modules

- \*\*API Interactions (`api.js`)\*\*: Functions to interact with the backend API, including fetching console messages, sending messages to the server, and managing user state.

- \*\*Chat Logic (`chat.js`)\*\*: Functions related to chat operations, such as sending messages, saving chat history, and managing chat windows.

- \*\*Entry Points\*\*: Scripts that initialize event listeners and application state for different pages (`chatEntryPoint.js`, `loginEntryPoint.js`, `registerEntryPoint.js`, `settingsEntryPoint.js`).

- \*\*Local Storage (`localStorage.js`)\*\*: Functions to load transcripts from local storage.

- \*\*State Management (`state.js`)\*\*: Manages the global state of the application, including fetching and updating user state.

- \*\*Styling (`style.css`)\*\*: CSS styles for the application's user interface.

- \*\*UI Components (`ui.js`)\*\*: Functions to manipulate the user interface, such as displaying messages and managing the side window.

- \*\*Utility Functions (`utils.js`)\*\*: Helper functions for console message handling, event processing, and state management.

### Files (`files` directory)

Contains JSON files defining the schema for agents (`assistant\_schema.json`), existing agents (`giint\_agents.json`), threads (`giint\_threads.json`), instructions (`instructions.json`), and tools (`tools.json`). These files are crucial for the dynamic operation of the application, providing the necessary configurations and data for the GIINT system.

The application's architecture is modular, with clear separation of concerns, allowing for easy maintenance and scalability. Each component plays a specific role in the overall functionality, from user interaction to deep AI-driven conversations. The use of concurrent threads, dynamic tool invocation, and a comprehensive agent management system showcases the application's capability to handle complex AI operations and provide a rich user experience.

[/APPLICATION\_DESCRIPTION]

[CODEBASE]:

[main.py]:

from flask import Flask

import openai

from app.routes import setup\_routes

from packaging import version

import os

from app.services.models import db

required\_version = version.parse("1.1.1")

current\_version = version.parse(openai.\_\_version\_\_)

if current\_version < required\_version:

raise ValueError(

f"Error: OpenAI version {openai.\_\_version\_\_} is less than the required version 1.1.1"

)

else:

print("OpenAI version is compatible.")

# Create Flask app

app = Flask(\_\_name\_\_,

template\_folder='app/templates',

static\_folder='app/static')

# Set the secret key for the app from the environment variable

app.config['SECRET\_KEY'] = os.environ.get('SECRET\_KEY')

app.config['SQLALCHEMY\_DATABASE\_URI'] = os.environ.get(

'SQLALCHEMY\_DATABASE\_URI') # Set your database URI

# Ensure a secret key is set, and if not, raise an exception

if not app.config['SECRET\_KEY']:

raise ValueError("No SECRET\_KEY set for Flask application")

# Initialize SQLAlchemy with the Flask app

db.init\_app(app)

setup\_routes(app)

if \_\_name\_\_ == '\_\_main\_\_':

with app.app\_context():

db.create\_all()

app.run(host='0.0.0.0', port=8080)

[/main.py]

--[.app/]:

[\_\_init\_\_.py]:

(empty)

[/\_\_init\_\_.py]

[routes.py]:

from flask import request, jsonify

from .services import chat\_services

from .services.auth\_services import register\_user, login\_user, update\_api\_key, verify\_token

def setup\_routes(app):

@app.route('/')

def index():

return chat\_services.render\_index()

@app.route('/chat')

def chat():

return chat\_services.render\_chat()

@app.route('/register', methods=['POST'])

def register():

data = request.json

return register\_user(data['email'], data['password'])

@app.route('/register')

def register\_page():

return chat\_services.render\_register()

@app.route('/settings')

def settings\_page():

return chat\_services.render\_settings()

@app.route('/login', methods=['POST'])

def login():

data = request.json

return login\_user(data['email'], data['password'],

app.config['SECRET\_KEY'])

@app.route('/update\_api\_key', methods=['POST'])

def update\_key():

token = request.headers.get('Authorization')

user = verify\_token(token, app.config['SECRET\_KEY'])

if user:

return update\_api\_key(user, request.json['api\_key'])

return jsonify({"message": "Invalid token"}), 401

@app.route('/get\_user\_state', methods=['GET'])

def get\_user\_state():

token = request.headers.get('Authorization').split(" ")[1]

user = verify\_token(token, app.config['SECRET\_KEY'])

if user:

# Assuming a method get\_state() that retrieves the user's state

return jsonify(user.get\_state()), 200

return jsonify({"message": "Invalid token"}), 401

@app.route('/set\_user\_state', methods=['POST'])

def set\_user\_state():

token = request.headers.get('Authorization').split(" ")[1]

user = verify\_token(token, app.config['SECRET\_KEY'])

if user:

# Assuming a method set\_state(data) that sets the user's state

user.set\_state(request.json)

return jsonify({"message": "User state updated successfully"}), 200

return jsonify({"message": "Invalid token"}), 401

@app.route('/run', methods=['POST'])

def run():

data = request.json

return chat\_services.handle\_run(data, app.config)

@app.route('/start', methods=['POST'])

def start():

data = request.json

return chat\_services.handle\_start(data, app.config)

@app.route('/list-assistants', methods=['POST'])

def list\_assistants():

data = request.json

return chat\_services.handle\_list\_assistants(data, app.config)

[/routes.py]

----[.functions/]:

[\_\_init\_\_.py]:

(empty)

[/\_\_init\_\_.py]

[chat\_types.py]:

import os

from concurrent.futures import ThreadPoolExecutor

from ..services import openai\_client

from ..functions import utils

from ..giint.giint\_service import GiintService

from ..giint.giint\_factories import GiintAgentFactory, GiintThreadFactory

from ..giint.giint\_repositories import GiintAgentRepository, GiintThreadRepository

#duo using a single thread and 'chat manager' system messages as user messages

def duo\_i(initial\_input, agent\_1, agent\_2, giint\_thread, max\_iterations=20):

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

thread\_id = giint\_thread.tool\_thread\_id

transcript = []

input\_message = initial\_input

assistant\_2\_name = client.get\_assistant(agent\_2.assistant\_id).name

# Append the initial user input to the transcript

user\_message\_init = "User Actual: " + initial\_input

transcript.append(user\_message\_init)

if thread\_id is None:

thread\_id = client.create\_thread()

for i in range(max\_iterations):

# Determine the assistant and message for the current iteration

if i % 2 == 0: # Even iterations (0, 2, 4, ...) - User Proxy's turn

assistant\_id = agent\_1.assistant\_id

message = f"Adopt role of: 'User Proxy' and respond to last message from '{assistant\_2\_name}' given context." if i > 0 else f"Generate initial prompt for assistant name: '{assistant\_2\_name}', according to input User Query: {input\_message}, and considering any and all previous conversation context when relevant. If the User Query is obviously domain specific, then use function tool 'awaken\_assistant'"

message\_anno = "User Proxy: "

else: # Odd iterations (1, 3, 5, ...) - Assistant 2's turn

assistant\_id = giint\_service.agent\_repo.find\_by\_id(

client, giint\_thread.tool\_agent\_id).assistant\_id

assistant\_2\_name = client.get\_assistant(assistant\_id).name

message = f"Last assistant message is from 'User Proxy'. Adopt role of: '{assistant\_2\_name}' and respond to last message given context."

message\_anno = f"{assistant\_2\_name}: "

# Generate the response

print(f'about to execute run OK')

context = giint\_thread.get\_context(giint\_thread.main\_thread\_id)

response = client.exec\_run(thread\_id=thread\_id,

messages=message,

assistant\_id=assistant\_id,

giint\_thread=giint\_thread,

context=context)

combined\_response = utils.get\_combined\_response(response)

single\_response = utils.get\_single\_response(response)

# Format and append the response to the transcript

formatted\_response = f"{message\_anno} {combined\_response}"

transcript.append(formatted\_response)

if isinstance(single\_response,

str) and i % 2 == 0 and ("PASS!" in single\_response

or "FAIL!" in single\_response):

break

print(f'Final trasncript from duo\_i: {transcript}')

return transcript

def x\_poll(assistant\_ids, team\_leader\_id, initial\_input, giint\_thread):

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

# create run\_xp tool in tools.py that calls THIS function, generates and feeds in agent ids etc...

# change parameters to accept 'agents' instead of plain assistant ids for assistant\_list and team\_leader\_id

# use

transcript = [f"User Actual: {initial\_input}"]

assistant\_names = [

client.get\_assistant(assistant\_id).name for assistant\_id in assistant\_ids

]

assistant\_name\_list = ', '.join(

f"{index + 1}. {name}" for index, name in enumerate(assistant\_names))

# Start thread\_prime with team leader

thread\_prime = client.create\_thread()

team\_leader\_name, \_ = client.get\_assistant(team\_leader\_id)

team\_leader\_message = f"SYSTEM NOTICE!!!\nMERGE\_INSTRUCTIONS = '{team\_leader\_name}' + 'TEAM LEADER'\n\n[TEAM LEADER INSTRUCTIONS]:\nYou are the 'TEAM LEADER', charged with orchestrating a conversation topology that involves multiple specialized AI assistants. Your pivotal role encompasses receiving, evaluating, and responding to attempts these assistants make at providing a reply to the 'User's query'. Such a query may take the form of a question, task, goal, objective, or other similar type. Each assistant is selected for their proficiency in a specific domain relevant to the User's query, and your job is to guide this collective intelligence towards delivering a coordinated and comprehensive response that caters to the User's needs.\n\nHere's an overview of your refined structure of duties:\n\nSTEP 1:\nInitial Query Reception: Upon receipt of the User's query, your prime objective is to analyze and reinterpret the query adding necessary context where deemed beneficial. The resultant output—a composite prompt—will be disseminated to a team of multiple specialized assistants, each chosen for their unique capabilities tailored to the query's subject matter.\n\nSTEP 2:\nEvaluation and Feedback: Following the prompt delivery, you will receive individual responses from the team of specialized assistants. These responses, distinctly marked to preserve their origin, must be carefully evaluated to understand their approach and effectiveness. Your next task is to synthesize the findings from the initial responses. This synthesis should capture the essence of each assistant's contribution and outline specific areas needing improvement. This collective analysis, accompanied by the synthesis, will be dispatched sequentially to the specialized assistants for refinement. As the feedback loop progresses, each specialized assistant will act iteratively, receiving not only your synthesis and feedback but also the improved responses from preceding assistants. This sequential structure cultivates a collaborative improvement process, ultimately leading to a more cohesive and well-rounded output by leveraging the strengths of all assistants.\n\nSTEP 3:\nFinal Evaluation and Synthesis: Upon the completion of the second reinforcement round, a consolidated transcript comprising the newly refined responses from each assistant will revert to your oversight. It is your responsibility to appraise these closing remarks, confirm the conclusions drawn by the specialists, and articulate a verbose summarization that encapsulates the successful aspects of the conversation chain.\n[/TEAM LEADER INSTRUCTIONS]\n\n\n\n---\nSYSTEM COMMAND!!!\nROLE = TEAM LEADER: '{team\_leader\_name}'\n\nFollow instructions for STEP 1.\n\n[STEP 1]:\nInitial Query Reception: Upon receipt of the User's query, your prime objective is to analyze and reinterpret the query adding necessary context where deemed beneficial. The resultant output—a composite prompt—will be disseminated to a team of three specialized assistants, each chosen for their unique capabilities tailored to the query's subject matter.\n[/STEP 1]\n\nIMPORTANT!!! DO NOT REFER TO THE STEP NUMBER IN YOUR MESSAGE TO THE ASSISTANTS!!!\n\n---\nSpecialized Assistants:\n\n'{assistant\_name\_list}'\n\n---\n\nUser's Query = '{initial\_input}'"

transcript.append(f"SYSTEM: {team\_leader\_message}")

response = client.exec\_run(thread\_prime, team\_leader\_message, team\_leader\_id)

transcript.append(f"{team\_leader\_name}: {response}")

response\_init = f"SYSTEM COMMAND!!!\nROLE = '{assistant\_name\_list}'\n\nYou are working with a group of other Assistants to solve a problem together, and your work is being planned, coordinated, managed, and delivered by another Assistant reffered to as: TEAM LEADER: '{team\_leader\_name}'. Based on your own system instructions, generate a complete reply to the relevant part of the Team Leader's prompt below.\n\n\n\n---\n\nTEAM LEADER PROMPT: '{response}'"

transcript.append(f"ALT\_THREAD\_SYSTEM: {response\_init}")

# Create and run threads for each assistant in parallel

with ThreadPoolExecutor() as executor:

futures = []

for assistant\_id in assistant\_ids:

assistant\_object = client.get\_assistant(assistant\_id)

assistant\_name = assistant\_object.name

if isinstance(assistant\_name, str):

system\_message = response\_init.replace("{assistant\_name\_list}",

assistant\_name)

else:

assistant\_name\_default = "Untitled Assistant"

system\_message = response\_init.replace("{assistant\_name\_list}",

assistant\_name\_default)

futures.append(

executor.submit(

client.thread\_and\_run,

assistant\_id,

system\_message,

))

responses = [future.result() for future in futures]

# Prepend names to responses and append to transcript individually

for name, resp in zip(assistant\_names, responses):

transcript.append(f"ALT\_THREAD\_{name}: {resp}")

# Combine responses and run on thread\_prime

combined\_responses = '\n\n'.join(

f"{name}: {resp}" for name, resp in zip(assistant\_names, responses))

combined\_responses\_init = f"SYSTEM COMMAND!!!\nROLE = TEAM LEADER: '{team\_leader\_name}'\n\nFollow instructions for STEP 2.\n\n[STEP 2]:\n\nEvaluation and Feedback: Following the prompt delivery, you will receive the combined individual responses from the set of specialized assistants. These responses, distinctly marked to preserve their origin, must be carefully evaluated to understand their approach and effectiveness. Your next task is to synthesize the findings from the initial responses. This synthesis should capture the essence of each assistant's contribution and outline specific areas needing improvement. This collective analysis, accompanied by the synthesis, will be dispatched sequentially to the specialized assistants for refinement. As the feedback loop progresses, each specialized assistant will act iteratively, receiving not only your synthesis and feedback but also the improved responses from preceding assistants. This sequential structure cultivates a collaborative improvement process, ultimately leading to a more cohesive and well-rounded output by leveraging the strengths of all assistants.\n\n[/STEP 2]\n\n---\n\nCombined Responses:\n\n{combined\_responses}"

transcript.append(f"SYSTEM: {combined\_responses\_init}")

response = client.exec\_run(thread\_prime, combined\_responses\_init,

team\_leader\_id)

transcript.append(f"{team\_leader\_name}: {response}")

# Iterate through assistants and run on thread\_prime

for assistant\_id, assistant\_name in zip(assistant\_ids, assistant\_names):

last\_assistant\_name = team\_leader\_name if assistant\_id == assistant\_ids[

0] else assistant\_names[assistant\_ids.index(assistant\_id) - 1]

role\_adopt\_message = f"SYSTEM COMMAND!!!\nROLE\_CHANGE = '{assistant\_name}'\n\nLast assistant message is from '{last\_assistant\_name}'. Continue work based on last message and prior context."

transcript.append(f"SYSTEM: {role\_adopt\_message}")

response = client.exec\_run(thread\_prime, role\_adopt\_message, assistant\_id)

transcript.append(f"{assistant\_name}: {response}")

# Final run with team leader

final\_message = "SYSTEM COMMAND!!!\nROLE\_CHANGE = TEAM LEADER: '{team\_leader\_name}'\n\nFollow instructions for STEP 3 based on all prior context.\n\n[STEP 3]:\nFinal Evaluation and Synthesis: Upon the completion of the second reinforcement round, a consolidated transcript comprising the newly refined responses from each assistant will revert to your oversight. It is your responsibility to appraise these closing remarks, confirm the conclusions drawn by the specialists, and articulate a verbose summarization that encapsulates the successful aspects of the conversation chain.\n[/STEP 3]"

transcript.append(f"SYSTEM: {final\_message}")

response = client.exec\_run(thread\_prime, final\_message, team\_leader\_id)

transcript.append(f"{team\_leader\_name}: {response}")

return transcript

[/chat\_types.py]

[tools.py]:

import os

import json

from ..services import openai\_client

from . import chat\_types

from ..giint.giint\_service import GiintService

from ..giint.giint\_factories import GiintAgentFactory, GiintThreadFactory

from ..giint.giint\_repositories import GiintAgentRepository, GiintThreadRepository

from . import utils

def giint(arguments, context, giint\_thread):

new\_message = context[-1]

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

# Create and save the user proxy agent

user\_proxy\_agent = giint\_service.agent\_factory.create\_agent(

client=client, agent\_type='user\_proxy\_agent', domain='default')

giint\_service.agent\_repo.save(user\_proxy\_agent)

duo\_agent = giint\_service.agent\_factory.create\_agent(client=client,

agent\_type='duo\_agent',

domain='default')

giint\_service.agent\_repo.save(duo\_agent)

giint\_thread.tool\_agent\_id = duo\_agent.agent\_id

giint\_service.thread\_repo.save(giint\_thread)

# Use the chat\_types module to simulate the conversation between the user proxy and the duo agent

transcript = chat\_types.duo\_i(initial\_input=new\_message,

agent\_1=user\_proxy\_agent,

agent\_2=duo\_agent,

giint\_thread=giint\_thread,

max\_iterations=10)

formatted\_transcript = utils.get\_combined\_response(transcript)

print(f'Final trasncript from giint tool: {transcript}')

return formatted\_transcript

def awaken\_assistant(arguments, context, giint\_thread):

print("awaken\_assistant\_called!")

print(f"{arguments}")

new\_message = context[-1]

arg\_de\_string = json.loads(arguments)

print(f"arg\_de\_string: {arg\_de\_string}")

domain = arg\_de\_string.get('domain', 'default')

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

additional\_instructions = procreate(domain=domain,

context=new\_message,

giint\_thread=giint\_thread)

new\_duo\_agent = giint\_service.agent\_factory.create\_agent(

client=client,

domain=domain,

agent\_type='duo\_agent',

additional\_instructions=additional\_instructions)

giint\_service.agent\_repo.save(new\_duo\_agent)

giint\_thread.tool\_agent\_id = new\_duo\_agent.agent\_id

giint\_service.thread\_repo.save(giint\_thread)

return f"A new agent has been created for the domain: {domain}, and replaced as the tool agent on the giint\_thread."

def giint\_flow(arguments, context, giint\_thread):

new\_message = context[-2] + '\n\n' + context[-1]

domain = arguments.get('domain', 'default')

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

additional\_instructions = procreate(domain=domain,

context=new\_message,

giint\_thread=giint\_thread)

new\_agent = giint\_service.agent\_factory.create\_agent(

client=client,

domain=domain,

agent\_type='progeny\_agent',

additional\_instructions=additional\_instructions)

giint\_service.agent\_repo.save(new\_agent)

giint\_thread.add\_auxiliary\_agent(new\_agent.agent\_id)

giint\_service.thread\_repo.save(giint\_thread)

return f"A new agent has been created for the domain: {domain}"

def SDNA\_Progenitor(arguments, context, giint\_thread):

input\_text = f"{arguments}.\n\n---\n\nConsidering the context:\n\n'{context}'"

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

progenitor\_agent = giint\_service.agent\_factory.create\_agent(

client=client, agent\_type='progenitor\_agent')

assistant\_id = progenitor\_agent.assistant\_id

try:

thread\_id = client.create\_thread().id

response = client.exec\_run(thread\_id,

input\_text,

assistant\_id=assistant\_id)

client.delete\_assistant(assistant\_id)

return response

except Exception as e:

print(f"Error calling the SDNA\_Progenitor: {e}")

return {"error": str(e)}

def SDNA\_Chaining(arguments, context, giint\_thread):

input\_text = f"{arguments}.\n\n---\n\nConsidering the context:\n\n'{context}'"

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

chaining\_agent = giint\_service.agent\_factory.create\_agent(

client=client, agent\_type='chaining\_agent')

assistant\_id = chaining\_agent.assistant\_id

try:

thread\_id = client.create\_thread().id

response = client.exec\_run(thread\_id,

input\_text,

assistant\_id=assistant\_id)

client.delete\_assistant(assistant\_id)

return response

except Exception as e:

print(f"Error calling the SDNA\_Morph: {e}")

return {"error": str(e)}

# Function to call the SDNA\_Morph

def SDNA\_Morph(arguments, context, giint\_thread):

input\_text = f"{arguments}.\n\n---\n\nConsidering the context:\n\n'{context}'"

client = giint\_thread.client

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

morph\_agent = giint\_service.agent\_factory.create\_agent(

client=client, agent\_type='morph\_agent')

assistant\_id = morph\_agent.assistant\_id

try:

thread\_id = client.create\_thread().id

response = client.exec\_run(thread\_id,

input\_text,

assistant\_id=assistant\_id)

client.delete\_assistant(assistant\_id)

return response

except Exception as e:

print(f"Error calling the SDNA\_Morph: {e}")

return {"error": str(e)}

def procreate(domain, context, giint\_thread):

arguments = {

"input\_text": f"Generate an SDNA profile for the domain: {domain}"

}

profile = SDNA\_Progenitor(arguments=arguments,

context=context,

giint\_thread=giint\_thread)

arguments = {"input\_text": f"Generate SDNA Chains for the domain: {domain}"}

chains = SDNA\_Chaining(arguments=arguments,

context=profile,

giint\_thread=giint\_thread)

composite = f"{profile}\n\n{chains}"

arguments = {

"input\_text": f"Generate an SDNA Morph Block for the domain: {domain}"

}

morph\_block = SDNA\_Morph(arguments=arguments,

context=composite,

giint\_thread=giint\_thread)

new\_instructions = f"{composite}\n\n{morph\_block}"

return new\_instructions

[/tools.py]

[utils.py]:

import json

def get\_single\_response(response):

if isinstance(response, list) and response:

return response[-1]

elif isinstance(response, str):

return response

else:

return None

def get\_combined\_response(response):

if isinstance(response, list):

return '\n\n\n'.join(response)

elif isinstance(response, str):

return response

else:

return None

def get\_instructions(instruction\_names, additional\_instructions=None):

instructions\_file = 'app/files/instructions.json'

additional\_instructions\_placeholder = "<ADDITIONAL\_INSTRUCTIONS>"

with open(instructions\_file, 'r') as file:

instructions\_data = json.load(file)

instructions = []

for name in instruction\_names:

if name == additional\_instructions\_placeholder and additional\_instructions is not None:

instructions.append(additional\_instructions)

else:

instructions.append(instructions\_data.get(name, ""))

return "\n\n".join(instructions)

def get\_tools(tool\_names):

tools\_file = 'app/files/tools.json'

with open(tools\_file, 'r') as file:

tools\_data = json.load(file)

tools = [tools\_data[name] for name in tool\_names if name in tools\_data]

return tools

def get\_schema(agent\_type, domain):

schema\_file = 'app/files/assistant\_schema.json'

with open(schema\_file, 'r') as file:

schemas = json.load(file)

schema = schemas.get(agent\_type)

if not schema:

raise ValueError(f"No schema found for agent\_type: {agent\_type}")

if domain != "default" and domain in schema:

return schema[domain]

return schema["default"]

[/utils.py]

----[/.functions/]

----[.services/]:

[\_\_init\_\_.py]:

(empty)

[/\_\_init\_\_.py]

[chat\_services.py]:

from ..functions.chat\_types import x\_poll, duo\_i

from flask import request, render\_template, jsonify

from .openai\_client import OpenAIClientWrapper

from ..giint.giint\_service import GiintService

from ..giint.giint\_factories import GiintAgentFactory, GiintThreadFactory

from ..giint.giint\_repositories import GiintAgentRepository, GiintThreadRepository

from .auth\_services import verify\_token

from .models import db

def render\_index():

return render\_template('index.html')

def render\_chat():

return render\_template('chat.html')

def render\_register():

return render\_template('register.html')

def render\_settings():

return render\_template('settings.html')

def handle\_start(data, config):

token = request.headers.get('Authorization').split(" ")[1]

user = verify\_token(token, config['SECRET\_KEY'])

if user and user.api\_key:

# Use the user's API key and state for the GiintService

client = OpenAIClientWrapper(user.api\_key)

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

# Create the GiintService with all dependencies

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

# Use the service to start a new giint session by calling run\_giint with no giint\_id and new\_message

giint\_id = giint\_service.run\_giint(new\_message=None, giint\_id=None)

# Return the giint\_id to the frontend

return jsonify({'giint\_id': giint\_id})

return jsonify({'error': 'Invalid token or API key'}), 401

def handle\_run(data, config):

token = request.headers.get('Authorization').split(" ")[1]

user = verify\_token(token, config['SECRET\_KEY'])

if user and user.api\_key:

giint\_id = data.get('giint\_id')

user\_input = data.get('message', '')

assistant\_id = data.get('assistant\_id')

# Instantiate the dependencies

client = OpenAIClientWrapper(user.api\_key)

agent\_factory = GiintAgentFactory()

thread\_factory = GiintThreadFactory()

agent\_repo = GiintAgentRepository()

thread\_repo = GiintThreadRepository()

# Create the GiintService with all dependencies

giint\_service = GiintService(client, agent\_factory, thread\_factory,

agent\_repo, thread\_repo)

# Use the service to run giint logic

messages\_list = giint\_service.run\_giint(new\_message=user\_input,

giint\_id=giint\_id,

assistant\_id=assistant\_id)

if not messages\_list:

return None

assistant\_messages = []

for message in messages\_list.data:

if message.role == 'assistant':

assistant\_messages.append(message)

elif message.role == 'user':

break # Stop once a user message is encountered

# Process the collected assistant messages

responses = []

for msg in assistant\_messages:

if hasattr(msg.content[0], 'text'):

responses.append(msg.content[0].text.value)

elif hasattr(msg.content[0], 'image\_file'):

responses.append(msg.content[0].image\_file.file\_id)

else:

# Handle other content types here

responses.append(

f"Unknown content type: {type(msg.content[0]).\_\_name\_\_}")

# Return the collected responses in the order they were sent (oldest first)

flipped\_responses = responses[::-1]

print(

f'The actual message getting returned to user is: {flipped\_responses}')

formatted\_response = {

"message": {

"type": "string",

"value": flipped\_responses

}

}

return jsonify(formatted\_response)

def handle\_list\_assistants(data, config):

token = request.headers.get('Authorization').split(" ")[1]

user = verify\_token(token, config['SECRET\_KEY'])

if user and user.api\_key:

# Use the user's API key for the OpenAI client

client = OpenAIClientWrapper(api\_key=user.api\_key)

try:

# Fetch the list of assistants

assistant\_list = client.get\_assistant\_list()

assistants\_data = assistant\_list['data']

# Format the response

formatted\_response = {

"assistants": [{

'id': asst.id,

'name': asst.name

} for asst in assistants\_data]

}

return jsonify(formatted\_response)

except Exception as e:

# Handle exceptions

return jsonify({'error': str(e)}), 500

[/chat\_services.py]

[openai\_client.py]:

from openai import OpenAI

import time

from ..functions import tools

class OpenAIClientWrapper:

def \_\_init\_\_(self, api\_key):

self.client = OpenAI(api\_key=api\_key)

def create\_file(self, file\_path, purpose):

with open(file\_path, "rb") as file:

file\_object = self.client.files.create(file=file, purpose=purpose)

return file\_object

def create\_assistant(self,

model,

name=None,

description=None,

instructions=None,

tools=None,

file\_paths=None,

metadata=None):

body = {"model": model}

if name is not None:

body["name"] = name

if description is not None:

body["description"] = description

if instructions is not None:

body["instructions"] = instructions

if tools is not None:

body["tools"] = tools

if file\_paths is not None:

file\_ids = [

self.create\_file(file\_path, 'assistants').id

for file\_path in file\_paths

]

body["file\_ids"] = file\_ids

if metadata is not None:

body["metadata"] = metadata

print(f"Creating assistant with name: {name}")

# Make the API call to create the assistant

assistant\_object = self.client.beta.assistants.create(\*\*body)

return assistant\_object

def delete\_assistant(self, assistant\_id):

response = self.client.beta.assistants.delete(assistant\_id)

return response

def add\_assistant\_file(self, assistant\_id, file\_id):

assistant\_file\_object = self.client.beta.assistants.files.create(

assistant\_id=assistant\_id, file\_id=file\_id)

return assistant\_file\_object

def get\_assistant(self, assistant\_id):

assistant\_object = self.client.beta.assistants.retrieve(assistant\_id)

return assistant\_object

def get\_assistant\_list(self, limit=100, order='desc'):

all\_assistants = []

params = {"limit": limit, "order": order}

# Loop to handle pagination

while True:

# Make the API call to list the assistants

response = self.client.beta.assistants.list(\*\*params)

all\_assistants.extend(

response.data) # Add the current page of assistants to the list

# Check if there are more assistants to fetch

if response.has\_more:

# Update the 'after' parameter to the last assistant's ID to get the next page

params['after'] = response.data[-1].id

else:

break # Exit the loop if there are no more assistants to fetch

return {

"data": all\_assistants,

"has\_more":

False # Since we've collected all data, there's no more pagination

}

def create\_thread(self):

thread\_object = self.client.beta.threads.create()

return thread\_object

def add\_messages(self, thread\_id, messages):

message\_objects = []

print(f"adding message: {messages}")

# Send a message to the specified conversation thread

if not isinstance(messages, list):

messages = [messages]

for message in messages:

message\_object = self.client.beta.threads.messages.create(

thread\_id=thread\_id, role="user", content=message)

message\_objects.append(message\_object)

print(f'added messages: {message\_objects}')

return message\_objects

def get\_message\_list(self, thread\_id):

# Get the list of messages in the specified conversation thread

message\_list = self.client.beta.threads.messages.list(thread\_id=thread\_id)

return message\_list

def get\_message(self, thread\_id, message\_id):

# Get the message with the specified ID from the specified conversation thread

message\_object = self.client.beta.threads.messages.retrieve(

thread\_id=thread\_id, message\_id=message\_id)

return message\_object

def create\_run(self, thread\_id, assistant\_id):

# Run the assistant for the specified conversation thread

print(

f"i am now in the create\_run function with thread\_id: {thread\_id} and assistant\_id: {assistant\_id}"

)

run\_object = self.client.beta.threads.runs.create(

thread\_id=thread\_id, assistant\_id=assistant\_id)

print("succesfully made run with openai client")

return run\_object

def get\_run(self, thread\_id, run\_id):

# Get the details of a specific run

run\_object = self.client.beta.threads.runs.retrieve(thread\_id=thread\_id,

run\_id=run\_id)

return run\_object

def submit\_tool\_outputs(self, thread\_id, run\_id, tool\_outputs):

# Submit the tool outputs for a specific run

response = self.client.beta.threads.runs.submit\_tool\_outputs(

thread\_id=thread\_id, run\_id=run\_id, tool\_outputs=tool\_outputs)

return response

def exec\_run(self,

thread\_id,

messages,

assistant\_id,

context=None,

giint\_thread=None):

self.add\_messages(thread\_id, messages)

# Add the user's message to the thread and run the Assistant

print(f"okay really starting the run now")

run\_object = self.create\_run(thread\_id, assistant\_id)

# Check if the Run requires action (function call)

while True:

run\_status = self.get\_run(thread\_id, run\_object.id)

if run\_status.status == 'completed':

break

elif run\_status.status == 'requires\_action':

# Check if 'required\_action' is not None and 'submit\_tool\_outputs' is present

required\_action = getattr(run\_status, 'required\_action', None)

if required\_action and hasattr(required\_action, 'submit\_tool\_outputs'):

tool\_calls = required\_action.submit\_tool\_outputs.tool\_calls

tool\_outputs = []

for tool\_call in tool\_calls:

func\_name = tool\_call.function.name

arguments = tool\_call.function.arguments

print(f"arguments: {arguments}")

# Dynamically get the function from the tools module

func = getattr(tools, func\_name, None)

if func:

# Call the function dynamically

output = func(arguments, context, giint\_thread)

tool\_outputs.append({

"tool\_call\_id": tool\_call.id,

"output": output

})

else:

# Handle the case where the function doesn't exist

print(f"Function {func\_name} not found in tools module.")

self.submit\_tool\_outputs(thread\_id, run\_object.id, tool\_outputs)

else:

# Handle the case where 'submit\_tool\_outputs' is not present or 'required\_action' is None

print("No tool outputs to submit or required\_action is None.")

break # or continue, depending on the desired behavior

time.sleep(1) # Wait for a second before checking again

messages\_list = self.get\_message\_list(thread\_id)

print(f"Messages list: {messages\_list}")

if not messages\_list:

return None # or some default value indicating no messages

# Collect all consecutive assistant messages starting from the latest

assistant\_messages = []

for message in messages\_list.data:

if message.role == 'assistant':

assistant\_messages.append(message)

elif message.role == 'user':

break # Stop once a user message is encountered

# Process the collected assistant messages

responses = []

for msg in assistant\_messages:

if hasattr(msg.content[0], 'text'):

responses.append(msg.content[0].text.value)

elif hasattr(msg.content[0], 'image\_file'):

responses.append(msg.content[0].image\_file.file\_id)

else:

# Handle other content types here

responses.append(

f"Unknown content type: {type(msg.content[0]).\_\_name\_\_}")

# Return the collected responses in the order they were sent (oldest first)

return responses[::

-1] # Reverse the list to get the correct chronological order

def thread\_and\_run(self, assistant\_id, system\_message):

thread\_id = self.create\_thread()

response = self.exec\_run(thread\_id, system\_message, assistant\_id)

return response

[/openai\_client.py]

[models.py]:

from flask\_sqlalchemy import SQLAlchemy

from werkzeug.security import generate\_password\_hash, check\_password\_hash

db = SQLAlchemy()

class User(db.Model):

id = db.Column(db.Integer, primary\_key=True)

email = db.Column(db.String(120), unique=True, nullable=False)

password\_hash = db.Column(db.String(128))

api\_key = db.Column(db.String(128))

state = db.Column(db.JSON)

def set\_password(self, password):

self.password\_hash = generate\_password\_hash(password)

def check\_password(self, password):

return check\_password\_hash(self.password\_hash, password)

def get\_state(self):

return self.state or {}

def set\_state(self, state\_data):

self.state = state\_data

db.session.commit()

[/models.py]

[auth\_services.py]:

from .models import User, db

from flask import jsonify

from itsdangerous import URLSafeTimedSerializer as Serializer

# Assuming app secret key is set in the Flask app config

def generate\_token(email, secret\_key, expiration=3600):

s = Serializer(secret\_key)

return s.dumps({'email': email}), expiration

def verify\_token(token, secret\_key):

s = Serializer(secret\_key)

try:

email = s.loads(token)['email']

except:

return None

return User.query.filter\_by(email=email).first()

def register\_user(email, password):

user = User(email=email)

user.set\_password(password)

db.session.add(user)

db.session.commit()

return jsonify({"message": "User registered successfully"}), 201

def login\_user(email, password, secret\_key):

user = User.query.filter\_by(email=email).first()

if user and user.check\_password(password):

token, expiration = generate\_token(user.email, secret\_key)

return jsonify({"token": token, "expiration": expiration}), 200

return jsonify({"message": "Invalid credentials"}), 401

def update\_api\_key(user, api\_key):

user.api\_key = api\_key

db.session.commit()

return jsonify({"message": "API key updated successfully"}), 200

[/auth\_services.py]

----[/.services/]

----[.giint/]:

[\_\_init\_\_.py]:

(empty)

[/\_\_init\_\_.py]

[giint\_agent.py]:

import uuid

from ..services import openai\_client

from ..functions import utils

class GiintAgent:

def \_\_init\_\_(self,

client,

agent\_id=None,

domain=None,

agent\_type=None,

assistant\_id=None,

additional\_instructions=None):

self.agent\_id = agent\_id or str(uuid.uuid4())

self.domain = domain

self.agent\_type = agent\_type

self.client = client

self.additional\_instructions = additional\_instructions

self.assistant\_id = assistant\_id if assistant\_id is not None else self.awaken(

)

def awaken(self, agent\_type=None, domain=None, additional\_instructions=None):

agent\_type = agent\_type or self.agent\_type

domain = domain or self.domain

domain\_name = f": {domain}" if domain != "default" else " "

additional\_instructions = additional\_instructions or self.additional\_instructions

assistant\_schema = utils.get\_schema(agent\_type=agent\_type, domain=domain)

instruction\_names = assistant\_schema['instruction\_names']

instructions = utils.get\_instructions(instruction\_names,

additional\_instructions)

tools = utils.get\_tools(assistant\_schema['tool\_names'])

return self.client.create\_assistant(

model=assistant\_schema['model'],

name=assistant\_schema['name'] + domain\_name,

description=assistant\_schema['description'],

instructions=instructions,

tools=tools,

file\_paths=assistant\_schema['file\_paths'],

metadata=assistant\_schema['metadata']).id

def to\_json(self):

return {

'agent\_id': self.agent\_id,

'assistant\_id': self.assistant\_id,

'domain': self.domain,

'agent\_type': self.agent\_type

}

@staticmethod

def from\_json(client, data):

return GiintAgent(client=client,

agent\_id=data['agent\_id'],

assistant\_id=data['assistant\_id'],

domain=data['domain'],

agent\_type=data['agent\_type'])

[/giint\_agent.py]

[giint\_thread.py]:

import uuid

from ..services import openai\_client

class GiintThread:

def \_\_init\_\_(self,

client,

giint\_id=None,

main\_agent\_id=None,

main\_thread\_id=None):

self.giint\_id = giint\_id or str(uuid.uuid4())

self.client = client

self.main\_agent\_id = main\_agent\_id

self.main\_thread\_id = main\_thread\_id if main\_thread\_id is not None else self.client.create\_thread(

).id

self.tool\_agent\_id = None

self.tool\_thread\_id = self.client.create\_thread().id

self.auxiliary\_agents\_threads = {

} # Dictionary to store auxiliary agent IDs and their corresponding thread IDs

def get\_context(self, thread\_id):

all\_messages = self.client.get\_message\_list(thread\_id)

if not all\_messages:

return None

responses = []

for msg in all\_messages.data:

if hasattr(msg.content[0], 'text'):

responses.append(msg.content[0].text.value)

elif hasattr(msg.content[0], 'image\_file'):

responses.append(msg.content[0].image\_file.file\_id)

else:

# Handle other content types here

responses.append(

f"Unknown content type: {type(msg.content[0]).\_\_name\_\_}")

return responses[::-1]

def add\_auxiliary\_agent\_thread(self, auxiliary\_agent\_id):

auxiliary\_thread\_id = self.client.create\_thread().id

self.auxiliary\_agents\_threads[auxiliary\_agent\_id] = auxiliary\_thread\_id

def remove\_auxiliary\_agent\_thread(self, auxiliary\_agent\_id):

if auxiliary\_agent\_id in self.auxiliary\_agents\_threads:

del self.auxiliary\_agents\_threads[auxiliary\_agent\_id]

def to\_json(self):

return {

'giint\_id': self.giint\_id,

'main\_agent\_id': self.main\_agent\_id,

'main\_thread\_id': self.main\_thread\_id,

'tool\_agent\_id': self.tool\_agent\_id,

'tool\_thread\_id': self.tool\_thread\_id,

'auxiliary\_agents\_threads': self.auxiliary\_agents\_threads

}

@staticmethod

def from\_json(client, data):

thread = GiintThread(client=client,

giint\_id=data['giint\_id'],

main\_agent\_id=data['main\_agent\_id'],

main\_thread\_id=data['main\_thread\_id'])

thread.tool\_agent\_id = data.get('tool\_agent\_id')

thread.tool\_thread\_id = data.get('tool\_thread\_id')

thread.auxiliary\_agents\_threads = data.get('auxiliary\_agents\_threads', {})

return thread

[/giint\_thread.py]

[giint\_factories.py]:

from .giint\_agent import GiintAgent

from .giint\_thread import GiintThread

class GiintAgentFactory:

def create\_agent(self,

client,

domain=None,

agent\_type=None,

assistant\_id=None,

additional\_instructions=None):

# Logic to create and return a GiintAgent instance

print(

f"Creating GiintAgent with API key: {client}, domain: {domain}, agent\_type: {agent\_type}, assistant\_id: {assistant\_id}"

)

return GiintAgent(client=client,

agent\_type=agent\_type,

domain=domain,

assistant\_id=assistant\_id,

additional\_instructions=additional\_instructions)

class GiintThreadFactory:

def create\_thread(self, client, main\_agent\_id=None):

# Logic to create and return a GiintThread instance

return GiintThread(client=client, main\_agent\_id=main\_agent\_id)

[/giint\_factories.py]

[giint\_repositories.py]:

import json

import os

from .giint\_agent import GiintAgent

from .giint\_thread import GiintThread

GIINT\_AGENTS\_FILE = 'app/files/giint\_agents.json'

GIINT\_THREADS\_FILE = 'app/files/giint\_threads.json'

class GiintAgentRepository:

def save(self, agent):

# Save agent to storage

agents = self.load\_agents()

agents[agent.agent\_id] = agent.to\_json()

with open(GIINT\_AGENTS\_FILE, 'w') as file:

json.dump(agents, file, indent=4)

def find\_by\_id(self, client, agent\_id):

# Retrieve agent from storage

agents = self.load\_agents()

agent\_data = agents.get(agent\_id)

return GiintAgent.from\_json(client, agent\_data) if agent\_data else None

def load\_agents(self):

if os.path.exists(GIINT\_AGENTS\_FILE):

with open(GIINT\_AGENTS\_FILE, 'r') as file:

return json.load(file)

return {}

class GiintThreadRepository:

def save(self, thread):

# Save thread to storage

threads = self.load\_threads()

threads[thread.giint\_id] = thread.to\_json()

with open(GIINT\_THREADS\_FILE, 'w') as file:

json.dump(threads, file, indent=4)

def find\_by\_id(self, client, thread\_id):

# Retrieve thread from storage

threads = self.load\_threads()

thread\_data = threads.get(thread\_id)

return GiintThread.from\_json(client, thread\_data) if thread\_data else None

def load\_threads(self):

if os.path.exists(GIINT\_THREADS\_FILE):

with open(GIINT\_THREADS\_FILE, 'r') as file:

return json.load(file)

return {}

[/giint\_repositories.py]

[giint\_service.py]:

import time

from ..functions import tools

class GiintService:

def \_\_init\_\_(self, client, agent\_factory, thread\_factory, agent\_repo,

thread\_repo):

self.client = client

self.agent\_factory = agent\_factory

self.thread\_factory = thread\_factory

self.agent\_repo = agent\_repo

self.thread\_repo = thread\_repo

def run\_giint(self, new\_message=None, giint\_id=None, assistant\_id=None):

# Retrieve or create a GiintThread

if giint\_id:

giint\_thread = self.thread\_repo.find\_by\_id(self.client, giint\_id)

if not giint\_thread:

raise ValueError("Thread not found")

else:

giint\_thread = self.thread\_factory.create\_thread(client=self.client)

self.thread\_repo.save(giint\_thread)

return giint\_thread.giint\_id

# Check if the thread has a main agent, create one if not

if not giint\_thread.main\_agent\_id:

main\_agent = self.agent\_factory.create\_agent(client=self.client,

agent\_type="main\_agent",

domain="default",

assistant\_id=assistant\_id)

self.agent\_repo.save(main\_agent)

giint\_thread.main\_agent\_id = main\_agent.agent\_id

self.thread\_repo.save(giint\_thread)

else:

main\_agent = self.agent\_repo.find\_by\_id(self.client,

giint\_thread.main\_agent\_id)

if assistant\_id is not None:

# if assistant id given, swap out on main agent (should actually be re-awakened by pulling assisant data, and then making a new main agent with additional instructions and additional tools given from the provided assistant)

main\_agent.assistant\_id = assistant\_id

else:

# main\_agent found on thread, BUT no assistant\_id given in request, then reset main\_agent to default

main\_agent = self.agent\_factory.create\_agent(client=self.client,

agent\_type="main\_agent",

domain="default")

self.agent\_repo.save(main\_agent)

giint\_thread.main\_agent\_id = main\_agent.agent\_id

self.thread\_repo.save(giint\_thread)

# Add message to thread and run the agent

self.client.add\_messages(giint\_thread.main\_thread\_id, new\_message)

context = giint\_thread.get\_context(giint\_thread.main\_thread\_id)

run\_object = self.client.create\_run(giint\_thread.main\_thread\_id,

main\_agent.assistant\_id)

while True:

run\_status = self.client.get\_run(giint\_thread.main\_thread\_id,

run\_object.id)

if run\_status.status == 'completed':

break

elif run\_status.status == 'requires\_action':

print('tool was called')

required\_action = getattr(run\_status, 'required\_action', None)

if required\_action and hasattr(required\_action, 'submit\_tool\_outputs'):

tool\_calls = required\_action.submit\_tool\_outputs.tool\_calls

print(f'Tool calls: {tool\_calls}')

tool\_outputs = []

for tool\_call in tool\_calls:

func\_name = tool\_call.function.name

arguments = tool\_call.function.arguments

# Dynamically get the function from the tools module

func = getattr(tools, func\_name, None)

if func:

# Call the function dynamically

output = func(arguments, context, giint\_thread)

tool\_outputs.append({

"tool\_call\_id": tool\_call.id,

"output": output

})

else:

# Handle the case where the function doesn't exist

print(f"Function {func\_name} not found in tools module.")

print(f'Tool outputs: {tool\_outputs}')

self.client.submit\_tool\_outputs(giint\_thread.main\_thread\_id,

run\_object.id, tool\_outputs)

else:

print("No tool outputs to submit or required\_action is None.")

break

time.sleep(1)

messages\_list = self.client.get\_message\_list(giint\_thread.main\_thread\_id)

return messages\_list

[/giint\_service.py]

----[/.giint/]

----[.templates/]:

[index.html]:

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login</title>

<link href="{{ url\_for('static', filename='style.css') }}" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="top-banner">

</div>

<div class="login-container">

<!-- Email Input -->

<div class="email-input-container">

<label for="email-input">Email Address:</label>

<input type="email" id="email-input" placeholder="Enter your email here">

</div>

<!-- Password Input -->

<div class="password-container">

<label for="password-input">Password:</label>

<input type="password" id="password-input" placeholder="Enter your password here">

</div>

<!-- Submit Button -->

<button id="login-submit" disabled>Submit</button>

<button id="go-to-register" class="nav-button">Register</button>

</div>

<script type="module" src="{{ url\_for('static', filename='loginEntryPoint.js') }}"></script>

</body>

</html>

[/index.html]

[chat.html]:

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Chat Interface</title>

<link href="{{ url\_for('static', filename='style.css') }}" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="top-banner" id="draggable-banner">

<!-- ASCII art for the logo "onion\_morph" -->

<pre id="ascii-logo" class="ascii-art">

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</pre>

<!-- Console log area -->

<div class="console-log" id="console-log">

<!-- Console messages will be added here -->

</div>

<!-- Add a handle to drag and resize the banner -->

<div class="resize-handle"></div>

</div>

<!-- Main content container -->

<div class="main-content">

<!-- Chat Window (Progeny) -->

<div class="chat-window" id="chat-window-1">

<header class="chat-header">

<select class="history-dropdown" id="history-dropdown-1">

<option value="">Select a history...</option>

</select>

<h1 class="chat-title" id="chat-title-1">Progeny</h1>

<button class="save-window-button" id="save-window-button-1">Save Window</button>

</header>

<div class="chat-container" id="chat-container-1"></div>

<div class="chat-input-container">

<div class="message-row">

<button class="new-chat-button" id="new-chat-button-1">New Chat</button>

<textarea class="message-input" id="message-input-1" placeholder="Type a message..."></textarea>

<button class="send-button" id="send-button-1">Send</button>

</div>

<div class="assistant-controls">

<button class="remove-assistant-button" id="remove-assistant-button-1">Remove</button>

<select class="assistant-dropdown" id="assistant-dropdown-1"></select>

<button class="add-assistant-button" id="add-assistant-button-1">Add</button>

</div>

<div id="radio-buttons-container-1">

<input type="radio" id="radio-none-1" name="assistant-radio-1" value="" class="assistant-radio" checked>

<label for="radio-none-1">None</label>

</div>

<input type="color" class="color-swatch" id="color-swatch-1" title="Change border color">

</div>

</div>

<!-- Additional chat windows would be inserted here -->

<button id="new-window-button">New Window</button>

<button id="go-to-settings" class="nav-button">Settings</button>

<select id="saved-windows-dropdown">

<option value="">Select a saved window...</option>

</select>

</div>

<!-- Side Window -->

<div class="side-window" id="side-window">

<button class="collapse-button" id="collapse-button">Collapse</button>

<div class="transcript-directory" id="transcript-directory"></div>

<div class="transcript-display" id="transcript-display">

<button class="back-button" id="back-button">Back</button>

<div class="transcript-messages" id="transcript-messages"></div>

</div>

</div>

<!-- Expand Button (visible when side window is collapsed) -->

<button class="expand-button" id="expand-button">Expand</button>

<script type="module" src="{{ url\_for('static', filename='chatEntryPoint.js') }}"></script>

</body>

</html>

[/chat.html]

[register.html]:

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register</title>

<link href="{{ url\_for('static', filename='style.css') }}" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="register-container">

<div class="email-container">

<label for="register-email-input">Email:</label>

<input type="email" id="register-email-input" placeholder="Enter your email here">

</div>

<div class="password-container">

<label for="register-password-input">Password:</label>

<input type="password" id="register-password-input" placeholder="Create a password">

</div>

<button id="register-submit">Register</button>

</div>

<script type="module" src="{{ url\_for('static', filename='registerEntryPoint.js') }}"></script>

</body>

</html>

[/register.html]

[settings.html]:

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Account Settings</title>

<link href="{{ url\_for('static', filename='style.css') }}" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="settings-container">

<div class="api-key-container">

<label for="api-key-input">API Key:</label>

<input type="text" id="api-key-input" placeholder="Enter your OpenAI API Key here">

</div>

<button id="update-api-key">Update API Key</button>

</div>

<script type="module" src="{{ url\_for('static', filename='settingsEntryPoint.js') }}"></script>

</body>

</html>

[/settings.html]

----[/.templates/]

----[.static/]:

[api.js]:

import {populateHistoryDropdowns, displayTranscriptDirectory, toggleSideWindow, displayConsoleMessage, displayMessage} from './ui.js';

import {saveCurrentChat} from './chat.js';

import {enableUserInput, handleConsoleMessage, addConsoleLogMessage, processNextConsoleMessageInQueue} from './utils.js';

import { getStateValue, setStateValue } from './state.js';

import { globalState } from './state.js';

function fetchConsoleMessages() {

const token = sessionStorage.getItem('token'); // Retrieve the session token

console.log('Fetching console messages...');

fetch('https://sdnarivet-evanswesleya.replit.app/fetch-transcripts', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}` // Include the session token in the request headers

},

body: JSON.stringify({

filePath: "ASSPRIME.rivet-project",

graph: "PRIME/GET\_DUO\_TRANSCRIPT",

inputs: {

...(apiKey ? { "apiKey": apiKey } : {}),

...(email ? { "email": email } : {})

}

})

})

.then(response => response.json())

.then(data => {

console.log('Response data:', data); // Log the response data

// Check if transcripts are present and the array is not empty

if (data.transcripts && data.transcripts.type === "any[]" && Array.isArray(data.transcripts.value) && data.transcripts.value.length > 0) {

console.log('Processing console messages:', data.transcripts.value); // Log the transcripts value

// Combine all strings into one message with a delimiter

const consoleMessage = 'CONSOLE MESSAGE:\n' + data.transcripts.value.join('\n------\n');

console.log('Console message to handle:', consoleMessage); // Log the formatted console message

// Handle the console message

handleConsoleMessage(consoleMessage);

} else {

console.log('No new console messages found.'); // Log when no new messages are found

}

})

.catch(error => {

console.error('Error fetching console messages:', error);

});

}

function sendToServer(message, chatWindowNumber, isConsoleMessage = false) {

setStateValue('isMessagePending', true);

const startTime = Date.now();

console.log(`Sending message to server from window ${chatWindowNumber}:`, message);

// Retrieve the giint\_id from globalState

const giintId = getStateValue('sessionIds')[chatWindowNumber - 1];

const token = sessionStorage.getItem('token'); // Retrieve the session token

// Retrieve the selected assistantId from the active radio button

const selectedRadio = document.querySelector(`input[name="assistant-radio-${chatWindowNumber}"]:checked`);

let assistantId = selectedRadio ? selectedRadio.value : undefined;

// If "None" is selected, fall back to the assistantId from the dropdown

if (!assistantId) {

assistantId = document.getElementById(`assistant-dropdown-${chatWindowNumber}`).value || undefined;

}

// Create request body

const requestBody = {

message: message,

giint\_id: giintId,

...(assistantId ? { assistant\_id: assistantId } : {})

};

console.log(`Request body for window ${chatWindowNumber}:`, requestBody);

addConsoleLogMessage(`Sending message from window ${chatWindowNumber}: ${message}`, true);

fetch('https://onion-morph.replit.app/run', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}` // Include the session token in the request headers

},

body: JSON.stringify(requestBody)

})

.then(response => response.json())

.then(data => {

const reply = data.message.value[0];

addConsoleLogMessage(`Received response for window ${chatWindowNumber}: ${reply}`);

if (reply) {

// Update the chat history in globalState

const chatHistories = getStateValue('chatHistories');

const chatHistory = chatHistories[chatWindowNumber - 1];

chatHistory.push({ message: message, type: isConsoleMessage ? 'console-message' : 'sent' });

chatHistory.push({ message: reply, type: 'received' });

setStateValue('chatHistories', chatHistories, true);

if (isConsoleMessage) {

displayConsoleMessage(message);

setTimeout(() => {

const assistantNameForReply = getStateValue('newIdArray').find(assistant => assistant.id === assistantId)?.name;

displayMessage(reply, 'received', chatWindowNumber, false, assistantNameForReply ? assistantNameForReply + ":" : null);

enableUserInput();

processNextConsoleMessageInQueue();

}, 2000);

} else {

const assistantName = getStateValue('newIdArray').find(assistant => assistant.id === assistantId)?.name;

displayMessage(reply, 'received', chatWindowNumber, false, assistantName ? assistantName + ":" : null);

}

}

setStateValue('isMessagePending', false);

// Remove waiting animation after receiving the response

const waitingDotsContainer = document.querySelector(`#chat-container-${chatWindowNumber} .waiting-dots-container`);

if (waitingDotsContainer) {

waitingDotsContainer.remove();

}

if (data.new\_id && data.new\_id.type === "any[]" && data.new\_id.value) {

refreshAssistantList(); // Call refreshAssistantList function to refresh the list

}

const endTime = Date.now();

console.log(`Response received and processed in ${endTime - startTime}ms for window ${chatWindowNumber}`);

})

.catch(error => {

console.error(`Error sending message from window ${chatWindowNumber}:`, error);

displayMessage('Error', 'received', chatWindowNumber);

setStateValue('isMessagePending', false);

});

}

function refreshAssistantList() {

const token = sessionStorage.getItem('token'); // Retrieve the session token

fetch('https://onion-morph.replit.app/list-assistants', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}` // Include the session token in the request headers

}

})

.then(response => response.json())

.then(data => {

// Update the newIdArray in globalState

setStateValue('newIdArray', data.assistants, true);

console.log('Assistant pairs received and stored:', data.assistants);

})

.catch(error => {

console.error('Error fetching assistant pairs:', error);

});

}

function fetchTranscripts() {

const token = sessionStorage.getItem('token'); // Retrieve the session token

const isViewingTranscript = document.getElementById('transcript-display').style.display === 'block';

fetch('https://sdnarivet-evanswesleya.replit.app/fetch-transcripts', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}`

},

body: JSON.stringify({

filePath: "ASSPRIME.rivet-project",

graph: "PRIME/GET\_XP\_TRANSCRIPT",

inputs: {}

})

})

.then(response => response.json())

.then(data => {

if (data.transcripts && data.transcripts.type === "any[]" && Array.isArray(data.transcripts.value)) {

data.transcripts.value.forEach(transcriptArray => {

if (Array.isArray(transcriptArray)) {

const title = transcriptArray.pop().replace(/\r\n/g, '<br>');

sendTitleToBackend(title, token); // Updated to include token

const newTranscript = {

title: title,

messages: transcriptArray.map(message => message.replace(/\r\n/g, '<br>'))

};

const transcripts = getStateValue('transcripts');

transcripts.push(newTranscript);

setStateValue('transcripts', transcripts, true); // Sync with backend

}

});

if (!isViewingTranscript) {

displayTranscriptDirectory();

const sideWindow = document.getElementById('side-window');

if (sideWindow.style.right === '-25%' && data.transcripts.value.length > 0) {

toggleSideWindow();

}

}

}

})

.catch(error => {

console.error('Error fetching new transcripts:', error);

});

}

// Function to send the transcript title to the backend

function sendTitleToBackend(title) {

const token = sessionStorage.getItem('token'); // Retrieve the session token

const formattedTitle = title.replace(/<br>/g, '\n');

fetch('https://sdnarivet-evanswesleya.replit.app/append-transcript-title', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}` // Include the session token in the request headers

},

body: JSON.stringify({ email: email, title: formattedTitle })

})

.then(response => response.json())

.then(data => {

console.log('Transcript title appended to Google Sheet:', data.message);

})

.catch(error => {

console.error('Error appending transcript title to Google Sheet:', error);

});

}

async function getUserState(token) {

const response = await fetch('/get\_user\_state', {

method: 'GET',

headers: {

'Authorization': `Bearer ${token}`

}

});

if (response.ok) {

return response.json();

} else {

throw new Error('Failed to retrieve user state.');

}

}

async function setUserState(token, state) {

const response = await fetch('/set\_user\_state', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}`

},

body: JSON.stringify(state)

});

if (!response.ok) {

throw new Error('Failed to save user state.');

}

}

async function register(email, password) {

try {

const response = await fetch('/register', {

method: 'POST',

headers: {

'Content-Type': 'application/json'

},

body: JSON.stringify({ email: email, password: password })

});

if (response.ok) {

alert('Registration successful. Please log in.');

window.location.href = '/'; // Redirect to login page

} else {

const data = await response.json();

throw new Error(data.message || 'Failed to register');

}

} catch (error) {

console.error('Error during registration:', error);

alert(error.message);

}

}

async function login(email, password) {

try {

const response = await fetch('/login', {

method: 'POST',

headers: {

'Content-Type': 'application/json'

},

body: JSON.stringify({ email: email, password: password })

});

const data = await response.json();

if (response.ok && data.token) {

sessionStorage.setItem('token', data.token);

window.location.href = '/chat';

} else {

throw new Error('Failed to log in');

}

} catch (error) {

console.error('Error during login:', error);

alert('Failed to log in. Please check the console for more information.');

}

}

async function updateApiKey(token, apiKey) {

try {

const response = await fetch('/update\_api\_key', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}`

},

body: JSON.stringify({ api\_key: apiKey })

});

if (response.ok) {

alert('API key updated successfully.');

} else {

const data = await response.json();

throw new Error(data.message || 'Failed to update API key.');

}

} catch (error) {

console.error('Error updating API key:', error);

alert(error.message);

}

}

export { fetchConsoleMessages, sendToServer, refreshAssistantList, fetchTranscripts, sendTitleToBackend, login, register, getUserState, setUserState, updateApiKey };

[/api.js]

[chat.js]:

import {populateAssistantDropdowns, populateSavedWindowsDropdown, displayMessage, populateHistoryDropdowns} from './ui.js';

import {sendToServer} from './api.js';

import { getStateValue, setStateValue, initializeGlobalStateFromBackend } from './state.js';

import { globalState } from './state.js';

function sendMessage(chatWindowNumber) {

const userEmail = getStateValue('userEmailForSheets'); // Use getStateValue instead of localStorage

if (!userEmail) {

alert('Please submit your email before sending a message.');

return;

}

const inputField = document.getElementById(`message-input-${chatWindowNumber}`);

const message = inputField.value.trim();

if (message) {

displayMessage(message, 'sent', chatWindowNumber);

const chatHistories = getStateValue('chatHistories');

chatHistories[chatWindowNumber - 1].push({ message, type: 'sent' });

setStateValue('chatHistories', chatHistories, true); // Sync with backend

console.log(`Updated chat history after sending for window ${chatWindowNumber}:`, chatHistories[chatWindowNumber - 1]);

inputField.value = '';

displayMessage('', 'received', chatWindowNumber, true); // Show waiting animation

sendToServer(message, chatWindowNumber); // sendToServer function should also be updated to use the token

}

}

function saveCurrentChat(chatWindowNumber) {

const currentHistory = getStateValue('chatHistories')[chatWindowNumber - 1];

const currentGiintId = getStateValue('sessionIds')[chatWindowNumber - 1];

let historyName = new Date().toISOString();

let targetArray = getStateValue('savedChatHistories');

const existingHistoryIndex = targetArray.findIndex(history => history.giintId === currentGiintId);

if (existingHistoryIndex !== -1) {

targetArray[existingHistoryIndex].history = currentHistory.slice();

setStateValue('selectedHistoryIndexes', {

...getStateValue('selectedHistoryIndexes'),

[chatWindowNumber]: existingHistoryIndex

}, true);

} else {

const savedHistory = {

name: historyName,

history: currentHistory.slice(),

giintId: currentGiintId

};

targetArray.push(savedHistory);

setStateValue('selectedHistoryIndexes', {

...getStateValue('selectedHistoryIndexes'),

[chatWindowNumber]: targetArray.length - 1

}, true);

}

setStateValue('savedChatHistories', targetArray, true);

}

function startNewChat(chatWindowNumber) {

// Clear the chat history for the given window number

const chatHistories = getStateValue('chatHistories');

chatHistories[chatWindowNumber - 1] = [];

setStateValue('chatHistories', chatHistories, true);

document.getElementById(`chat-container-${chatWindowNumber}`).innerHTML = '';

const token = sessionStorage.getItem('token'); // Retrieve the session token

fetch('https://onion-morph.replit.app/start', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}` // Include the session token in the request headers

}

})

.then(response => response.json())

.then(data => {

if (data.giint\_id) {

// Update the globalState with the new giint\_id

const sessionIds = getStateValue('sessionIds');

sessionIds[chatWindowNumber - 1] = data.giint\_id;

setStateValue('sessionIds', sessionIds, true);

console.log(`New giint\_id received and stored for window ${chatWindowNumber}:`, data.giint\_id);

} else {

console.error('Failed to get a new giint\_id from the backend.');

}

})

.catch(error => {

console.error('Error starting a new chat:', error);

});

// Reset the selected history index for this window

const selectedHistoryIndexes = getStateValue('selectedHistoryIndexes');

selectedHistoryIndexes[chatWindowNumber] = undefined;

setStateValue('selectedHistoryIndexes', selectedHistoryIndexes, true);

// Populate the history dropdowns to reflect the reset state

populateHistoryDropdowns();

}

async function loadSavedChatHistory(chatWindowNumber, historyIndex) {

const token = sessionStorage.getItem('token'); // Retrieve the session token

const savedChatHistories = getStateValue('savedChatHistories');

const savedHistory = savedChatHistories[historyIndex];

if (savedHistory) {

document.getElementById(`chat-container-${chatWindowNumber}`).innerHTML = '';

const chatHistories = getStateValue('chatHistories');

chatHistories[chatWindowNumber - 1] = savedHistory.history.slice();

setStateValue('chatHistories', chatHistories); // Update globalState

const sessionIds = getStateValue('sessionIds');

sessionIds[chatWindowNumber - 1] = savedHistory.giintId;

setStateValue('sessionIds', sessionIds); // Update globalState

// Load and display the chat history for the window

loadAndDisplayChatHistory(chatWindowNumber);

}

}

async function loadAndDisplayChatHistory(chatWindowNumber) {

const chatContainer = document.getElementById(`chat-container-${chatWindowNumber}`);

chatContainer.innerHTML = ''; // Clear the chat container before loading history

const chatHistories = getStateValue('chatHistories');

const chatHistory = chatHistories[chatWindowNumber - 1];

if (!chatHistory || chatHistory.length === 0) {

console.log(`No chat history found for window ${chatWindowNumber}`);

return;

}

console.log(`Loaded chat history for window ${chatWindowNumber}:`, chatHistory);

chatHistory.forEach(item => displayMessage(item.message, item.type, chatWindowNumber));

}

function addAssistantRadioButtons(chatWindowNumber) {

const assistantDropdown = document.getElementById(`assistant-dropdown-${chatWindowNumber}`);

const selectedAssistantId = assistantDropdown.value;

const selectedAssistantName = assistantDropdown.options[assistantDropdown.selectedIndex].text;

if (!selectedAssistantId) {

alert('Please select an assistant to add.');

return;

}

const radioButtonsContainer = document.getElementById(`radio-buttons-container-${chatWindowNumber}`);

const radioInput = document.createElement('input');

radioInput.type = 'radio';

radioInput.id = `radio-${selectedAssistantId}-${chatWindowNumber}`;

radioInput.name = `assistant-radio-${chatWindowNumber}`;

radioInput.value = selectedAssistantId;

radioInput.classList.add('assistant-radio');

const radioLabel = document.createElement('label');

radioLabel.htmlFor = radioInput.id;

radioLabel.textContent = selectedAssistantName;

radioButtonsContainer.appendChild(radioInput);

radioButtonsContainer.appendChild(radioLabel);

// Update the radio button state in globalState

const radioState = {

id: selectedAssistantId,

name: selectedAssistantName,

selected: radioInput.checked

};

let radioStates = getStateValue('radioStates')[chatWindowNumber] || [];

radioStates.push(radioState);

setStateValue('radioStates', { ...getStateValue('radioStates'), [chatWindowNumber]: radioStates }, true);

}

function restoreRadioButtons(chatWindowNumber) {

const radioStates = getStateValue('radioStates')[chatWindowNumber] || [];

const radioButtonsContainer = document.getElementById(`radio-buttons-container-${chatWindowNumber}`);

const noneRadioInput = document.getElementById(`radio-none-${chatWindowNumber}`);

noneRadioInput.checked = true; // Initially set "None" radio button to checked

// Remove all dynamically created radio buttons

radioButtonsContainer.querySelectorAll('.assistant-radio:not(#radio-none-' + chatWindowNumber + ')').forEach(radio => radio.parentNode.removeChild(radio));

// Restore the radio buttons from the saved state, excluding the "None" button

radioStates.forEach(radioState => {

if (radioState.id !== "") {

const radioInput = document.createElement('input');

radioInput.type = 'radio';

radioInput.id = `radio-${radioState.id}-${chatWindowNumber}`;

radioInput.name = `assistant-radio-${chatWindowNumber}`;

radioInput.value = radioState.id;

radioInput.classList.add('assistant-radio');

radioInput.checked = radioState.selected;

const radioLabel = document.createElement('label');

radioLabel.htmlFor = radioInput.id;

radioLabel.textContent = radioState.name;

radioButtonsContainer.appendChild(radioInput);

radioButtonsContainer.appendChild(radioLabel);

if (radioState.selected) {

noneRadioInput.checked = false;

}

}

});

}

function saveWindow(windowNumber) {

const title = document.getElementById(`chat-title-${windowNumber}`).textContent;

const borderColor = getStateValue(`borderColor-${windowNumber}`);

const radioStates = getStateValue(`radioStates-${windowNumber}`) || [];

const windowState = {

title,

borderColor,

radioStates,

windowNumber

};

// Update the savedWindowStates in globalState and sync with backend

const savedWindowStates = getStateValue('savedWindowStates');

savedWindowStates.push(windowState);

setStateValue('savedWindowStates', savedWindowStates, true);

populateSavedWindowsDropdown();

}

function initializeNewChatWindow(windowNumber) {

// Check if a giintId is already stored, if not, request a new one

let giintId = getStateValue(`giintId-${windowNumber}`);

if (!giintId) {

// If there's no giintId, start a new chat to get one

startNewChat(windowNumber);

} else {

// If a giintId is found, use it and load the chat history

const chatHistories = getStateValue('chatHistories');

chatHistories[windowNumber - 1] = giintId;

setStateValue('chatHistories', chatHistories);

loadAndDisplayChatHistory(windowNumber);

}

// Restore radio buttons for this chat window

restoreRadioButtons(windowNumber);

populateAssistantDropdowns();

populateHistoryDropdowns();

}

export { sendMessage, saveCurrentChat, startNewChat, loadSavedChatHistory, loadAndDisplayChatHistory, addAssistantRadioButtons, restoreRadioButtons, saveWindow, initializeNewChatWindow };

[/chat.js]

[chatEntryPoint.js]:

import {addEventListenersToWindow, initializeSideWindow, initializeApplicationState, initializeTextareaFocus, doDrag, stopDrag, createNewChatWindow, createNewChatWindowWithSavedState, applySavedWindowTitle} from './ui.js';

import {loadTranscriptsFromLocalStorage} from './localStorage.js';

import {addConsoleLogMessage, processNextConsoleMessageInQueue} from './utils.js';

import {fetchConsoleMessages} from './api.js';

import { globalState } from './state.js';

import { fetchAndInitializeUserState, updateBackendState } from './state.js';

import { setStateValue, getStateValue } from './state.js';

setInterval(fetchConsoleMessages, 10000);

// Event listeners and initialization specific to the chat page

document.addEventListener('DOMContentLoaded', async function () {

const banner = document.getElementById('draggable-banner');

const consoleLog = document.getElementById('console-log');

const mainContent = document.querySelector('.main-content');

const minHeight = 90; // The default minimum height of the banner

// Fetch and initialize user state from the backend

const token = sessionStorage.getItem('token');

if (token) {

await fetchAndInitializeUserState(token);

}

// Capture the initial height of the console log area

globalState.consoleLogInitialHeight = consoleLog.clientHeight;

if (banner) {

let startY, startHeight;

// Attach the mousedown event listener to the entire banner

banner.addEventListener('mousedown', function (e) {

// Only start dragging if the click is within the default height range

if (e.offsetY <= minHeight) {

startY = e.clientY;

startHeight = parseInt(document.defaultView.getComputedStyle(banner).height, 10);

// Bind the doDrag function with the necessary parameters

const doDragBound = function (e) {

doDrag(e, banner, startY, startHeight);

};

// Bind the stopDrag function with the necessary parameters

const stopDragBound = function (e) {

stopDrag(e, doDragBound, stopDragBound);

};

document.documentElement.addEventListener('mousemove', doDragBound, false);

document.documentElement.addEventListener('mouseup', stopDragBound, false);

document.body.classList.add('noselect'); // Disable text selection during drag

}

});

}

// Auto-collapse the banner when interacting with the lower half of the page

mainContent.addEventListener('click', function () {

banner.style.height = `${minHeight}px`; // Collapse to default height

mainContent.style.paddingTop = `${minHeight}px`;

consoleLog.style.height = `${globalState.consoleLogInitialHeight}px`; // Reset console log height

consoleLog.scrollTop = consoleLog.scrollHeight; // Scroll to the bottom

});

const sideWindow = document.getElementById('side-window');

sideWindow.style.right = '-25%'; // Set the initial state to match the CSS

initializeApplicationState();

initializeSideWindow();

// Load transcripts from local storage

loadTranscriptsFromLocalStorage();

// Initialize textarea focus tracking

initializeTextareaFocus();

// Start fetching console messages at regular intervals

setInterval(() => fetchConsoleMessages(token), 10000);

// Add event listeners for the first chat window

addEventListenersToWindow(1);

// Apply saved window titles for the first window

applySavedWindowTitle(1);

// Add event listener for creating new chat windows

document.getElementById('new-window-button').addEventListener('click', createNewChatWindow);

const savedWindowsDropdown = document.getElementById('saved-windows-dropdown');

savedWindowsDropdown.addEventListener('change', function() {

const savedWindowStateIndex = this.value;

if (savedWindowStateIndex) {

createNewChatWindowWithSavedState(savedWindowStateIndex);

}

});

processNextConsoleMessageInQueue();

// Add the welcome message to the console log

addConsoleLogMessage('Welcome to GIINT!');

// New event listener for the "Settings" button

const goToSettingsButton = document.getElementById('go-to-settings');

goToSettingsButton.addEventListener('click', function() {

window.location.href = '/settings'; // Navigate to the settings page

});

});

window.addEventListener('beforeunload', function () {

// Update the backend state with the number of open windows and their states

const openWindowsCount = document.querySelectorAll('.chat-window').length;

setStateValue('openWindowsCount', openWindowsCount, true);

// Save the radio states for all windows

document.querySelectorAll('.chat-window').forEach((chatWindow, index) => {

const windowNumber = index + 1;

const radioButtons = document.querySelectorAll(`input[name="assistant-radio-${windowNumber}"]:not(#radio-none-${windowNumber})`);

const radioStates = Array.from(radioButtons).map(radio => ({

id: radio.value,

name: radio.nextSibling.textContent

}));

setStateValue(`radioStates-${windowNumber}`, radioStates, true);

});

// Synchronize the global state with the backend

updateBackendState();

});

[/chatEntryPoint.js]

[localStorage.js]:

import {displayTranscriptDirectory} from './ui.js';

import { setStateValue, getStateValue } from './state.js';

import { globalState } from './state.js';

function loadTranscriptsFromLocalStorage() {

// Assuming transcripts are already loaded into globalState at session start

const savedTranscripts = getStateValue('transcripts');

if (savedTranscripts && savedTranscripts.length > 0) {

// If transcripts are already present, just update the UI

displayTranscriptDirectory();

} else {

// If there are no transcripts, initialize with an empty array

setStateValue('transcripts', []);

}

}

export { loadTranscriptsFromLocalStorage };

[/localStorage.js]

[loginEntryPoint.js]:

import { login } from './api.js'; // Import the login function from api.js

// Event listeners and initialization specific to the login page

document.addEventListener('DOMContentLoaded', function () {

const emailInput = document.getElementById('email-input');

const passwordInput = document.getElementById('password-input');

const loginSubmitButton = document.getElementById('login-submit');

// Function to check if both fields are filled

function checkFields() {

if (emailInput.value.trim() && passwordInput.value.trim()) {

loginSubmitButton.disabled = false;

} else {

loginSubmitButton.disabled = true;

}

}

// Event listeners for input fields

emailInput.addEventListener('input', checkFields);

passwordInput.addEventListener('input', checkFields);

// Event listener for the submit button

loginSubmitButton.addEventListener('click', function() {

const email = emailInput.value.trim();

const password = passwordInput.value.trim();

login(email, password); // Call the login function with email and password

});

// New event listener for the "Register" button

const goToRegisterButton = document.getElementById('go-to-register');

goToRegisterButton.addEventListener('click', function() {

window.location.href = '/register'; // Navigate to the registration page

});

});

[/loginEntryPoint.js]

[state.js]:

export let globalState = {

// Transient state properties

isMessagePending: false,

lastFocusedTextarea: null,

consoleLogInitialHeight: undefined,

consoleMessageQueue: [],

// Persistent state properties (initially empty and will be populated on session start)

sessionIds: [],

chatHistories: [],

newIdArray: [],

savedChatHistories: [],

savedWindowStates: [],

selectedHistoryIndexes: {},

selectedAssistantDropdownIds: {},

transcripts: [],

radioStates: {},

borderColors: {},

openWindowsCount: 0

};

// Define which properties are persistent and need to be synchronized with the backend

const persistentStateProperties = [

'sessionIds',

'chatHistories',

'newIdArray',

'savedChatHistories',

'savedWindowStates',

'selectedHistoryIndexes',

'selectedAssistantDropdownIds',

'transcripts',

'radioStates',

'borderColors',

'openWindowsCount',

];

// Utility function to get a state value

export function getStateValue(key) {

return globalState[key];

}

// Utility function to set a state value and optionally synchronize with the backend

export function setStateValue(key, value, syncWithBackend = false) {

globalState[key] = value;

if (syncWithBackend && persistentStateProperties.includes(key)) {

// Assume setUserState is a function that updates the state on the backend

setUserState(sessionStorage.getItem('token'), { [key]: value }).catch(console.error);

}

}

// This function should be called when the page loads or when the user logs in

export async function fetchAndInitializeUserState(token) {

try {

const userState = await getUserState(token); // Fetch the user's state from the backend

initializeGlobalStateFromBackend(userState); // Initialize the global state with the fetched data

} catch (error) {

console.error('Error fetching user state:', error);

}

}

// Add this function to state.js if not already present

export async function getUserState(token) {

const response = await fetch('/get\_user\_state', {

method: 'GET',

headers: {

'Authorization': `Bearer ${token}`

}

});

if (response.ok) {

return response.json();

} else {

throw new Error('Failed to retrieve user state.');

}

}

// Function to initialize the global state with data fetched from the backend

export function initializeGlobalStateFromBackend(userState) {

Object.keys(userState).forEach(key => {

setStateValue(key, userState[key]);

});

}

// Function to update the entire state on the backend (e.g., before page unload)

export function updateBackendState() {

setUserState(sessionStorage.getItem('token'), globalState).catch(console.error);

}

function loadSelectedHistoryIndexes() {

const loadedIndexes = getStateValue('selectedHistoryIndexes');

if (loadedIndexes) {

setStateValue('selectedHistoryIndexes', loadedIndexes);

} else {

// If there are no loaded indexes, initialize with an empty object

setStateValue('selectedHistoryIndexes', {});

}

}

export {loadSelectedHistoryIndexes};

[/state.js]

[style.css]:

/\* Base styles for entire chat interface \*/

body, html {

margin: 0;

padding: 0;

font-family: 'Inter', sans-serif;

background-color: #f7f8fa;

}

.noselect {

-webkit-touch-callout: none; /\* iOS Safari \*/

-webkit-user-select: none; /\* Safari \*/

-khtml-user-select: none; /\* Konqueror HTML \*/

-moz-user-select: none; /\* Old versions of Firefox \*/

-ms-user-select: none; /\* Internet Explorer/Edge \*/

user-select: none; /\* Non-prefixed version, currently supported by Chrome, Edge, Opera and Firefox \*/

}

/\* Additional styles for the login page \*/

.login-container {

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

height: 100vh; /\* Full height of the viewport \*/

}

.top-banner {

background-color: #333;

color: #fff;

padding: 10px;

overflow: hidden; /\* Hide overflow during resizing \*/

resize: vertical; /\* Make the banner resizable vertically \*/

min-height: 75px; /\* Minimum height \*/

max-height: 50vh; /\* Maximum height as 50% of the viewport height \*/

display: flex; /\* Use flexbox for layout \*/

flex-direction: column; /\* Stack children vertically \*/

align-items: center; /\* Center children horizontally \*/

}

/\* Style for navigation buttons \*/

.nav-button {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

display: block; /\* Ensure it's a block-level element \*/

margin: 10px auto; /\* Center the button horizontally \*/

}

.console-log {

font-family: monospace;

white-space: pre; /\* Preserve whitespace for ASCII art \*/

overflow-y: auto; /\* Allow vertical scrolling \*/

width: 100%; /\* Full width \*/

text-align: center; /\* Center text \*/

flex-grow: 1; /\* Allow the console log to grow \*/

}

/\* Style for the resize handle \*/

.resize-handle {

position: absolute;

bottom: 0;

right: 0;

width: 20px;

height: 20px;

background: #666;

cursor: ns-resize; /\* Cursor for vertical resize \*/

}

/\* Ensure the ASCII art logo is centered \*/

#ascii-logo {

text-align: center;

margin: 0; /\* Remove default margin \*/

}

.ascii-art {

font-size: 8px; /\* Adjust the font size as needed \*/

line-height: 1; /\* Adjust line height to control spacing between lines \*/

margin: 0; /\* Remove default margin \*/

text-align: center; /\* Center the ASCII art \*/

}

/\* Adjust the main content padding to account for the banner \*/

.main-content {

padding-top: 75px; /\* Same as the default height of the banner \*/

}

#login-submit {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

margin-top: 20px; /\* Space above the button \*/

}

/\* API Key container styling \*/

.api-key-container {

position: relative;

display: flex;

align-items: center;

justify-content: center;

margin: 20px auto;

max-width: 600px;

}

#api-key-input {

flex-grow: 1;

padding: 10px;

margin-right: 10px;

border: 1px solid #d2d2d2;

border-radius: 18px;

}

#api-key-submit {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

}

/\* Email Input container styling to match API Key container \*/

.email-input-container {

display: flex;

align-items: center;

justify-content: center;

margin: 20px auto;

max-width: 600px;

}

#email-input {

flex-grow: 1;

padding: 10px;

margin-right: 10px;

border: 1px solid #d2d2d2;

border-radius: 18px;

}

#email-submit {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

}

/\* Add a flex container for the main content \*/

.main-content {

display: flex;

flex-direction: column;

transition: margin-right 0.5s;

width: 100%;

flex-grow: 1; /\* Allow the container to grow and shrink \*/

}

/\* Chat window styling \*/

.chat-window {

position: relative; /\* This is needed for absolute positioning context \*/

background: #fff;

border-radius: 8px;

box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

margin: 20px auto;

padding: 1em;

overflow: hidden;

width: 90%; /\* Full width layout \*/

max-width: 1200px; /\* Maximum width of the chat window \*/

border: 40px solid #000; /\* Default border color \*/

}

/\* Side window styling \*/

.side-window {

position: fixed;

top: 0;

right: -25%; /\* Start off-screen to the right \*/

width: 25%;

height: 100%;

background-color: #f7f8fa;

border-left: 1px solid #d2d2d2;

overflow-y: auto;

transition: right 0.5s; /\* Smooth transition for the side window \*/

z-index: 2; /\* Ensure the side window is above the main content \*/

}

/\* Style to push the main content when the side window is expanded \*/

.main-content-expanded {

margin-right: 25%; /\* Make space for the side window \*/

}

/\* Ensure buttons are not stretched \*/

#new-window-button, #saved-windows-dropdown {

width: auto; /\* Reset width to auto \*/

margin: 10px auto; /\* Center the button horizontally \*/

}

/\* Style for the transcript title \*/

.transcript-title {

font-size: 0.8em; /\* Adjust font size as needed \*/

margin-bottom: 10px; /\* Add some space below the title \*/

}

/\* Add padding to the top of the transcript directory \*/

.transcript-directory {

padding-top: 40px; /\* Top padding \*/

padding-right: 10px; /\* Right padding \*/

padding-bottom: 10px; /\* Bottom padding \*/

padding-left: 10px; /\* Left padding \*/

}

.transcript-display {

display: none; /\* Initially hidden \*/

}

.transcript-messages {

padding: 10px;

}

/\* Style for the transcript container \*/

.transcript-container {

display: flex;

justify-content: space-between;

align-items: center;

margin-bottom: 5px; /\* Add some space below each container \*/

}

/\* Style for the 'Paste' button \*/

.paste-button {

padding: 5px 10px;

margin-left: 10px; /\* Space between the transcript button and the paste button \*/

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

height: 100%; /\* Make the height match the transcript button \*/

}

/\* Collapse/Expand button styling \*/

.collapse-button, .expand-button {

padding: 5px 10px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

position: absolute;

top: 10px;

}

.collapse-button {

right: 10px;

}

.expand-button {

padding: 5px 10px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

position: absolute;

top: 10px;

right: 10px;

/\* display: block; \*/ /\* Uncomment this line if you want to explicitly set it to block \*/

}

/\* Back button styling \*/

.back-button {

padding: 5px 10px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

position: relative;

top: 10px;

left: 10px;

margin-bottom: 10px;

}

/\* Chat bubble styling for transcripts \*/

.transcript-message {

background-color: #007aff;

color: white;

padding: 5px 10px;

border-radius: 12px;

margin: 5px 0;

}

/\* Adjust chat window 1 when side window is expanded \*/

.chat-window.expanded {

width: 75%;

}

/\* Style for the "Remove" button \*/

.remove-assistant-button {

padding: 10px;

background-color: #ff3b30; /\* Red color for remove button \*/

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

margin-right: 10px; /\* Space after the button \*/

}

/\* Style for the "Save Window" button \*/

.save-window-button {

padding: 10px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

margin: 10px auto; /\* Center the button horizontally \*/

}

/\* Style for editable title \*/

.editable {

border: 1px dashed #007aff; /\* Dashed border to indicate edit mode \*/

padding: 2px; /\* Padding for better visual \*/

outline: none; /\* Remove default outline \*/

cursor: text; /\* Text cursor for editing \*/

}

/\* New chat window border style \*/

.new-chat-window {

border: 40px solid #000; /\* Default border color \*/

}

/\* Scrollable chat container \*/

.chat-container {

overflow-y: auto;

padding: 0.5em;

height: 400px;

word-wrap: break-word;

}

/\* Styling for the assistant's name \*/

.assistant-name {

font-weight: bold;

margin-bottom: 2px; /\* Space between the name and the message \*/

text-align: left;

display: block;

font-size: 0.9em; /\* Make the name font size smaller \*/

}

/\* Styling for the message group \*/

.message-group {

display: flex;

flex-direction: column;

align-items: flex-start; /\* Align items to the start of the flex container for assistant messages \*/

}

.message-group.sent-group {

align-items: flex-end; /\* Align items to the end of the flex container for user messages \*/

}

/\* Style for the waiting dots container \*/

.waiting-dots-container {

display: flex;

align-items: center;

justify-content: flex-start; /\* Align to the left for bot messages \*/

padding: 5px 10px; /\* Same padding as other messages for consistency \*/

min-height: 24px; /\* Ensure the container has height even when empty \*/

}

/\* Waiting for response animation styles \*/

.waiting-animation {

display: inline-block;

margin-left: 5px;

font-size: 20px; /\* Increase font size for larger dots \*/

}

.waiting-dot {

display: inline-block;

width: 10px; /\* Increase width for larger dots \*/

height: 10px; /\* Increase height for larger dots \*/

margin: 0 3px; /\* Add space between dots \*/

border-radius: 50%;

background-color: #007aff;

animation: waitingDots 1.5s infinite;

}

.waiting-dot:nth-child(2) {

animation-delay: 0.2s;

}

.waiting-dot:nth-child(3) {

animation-delay: 0.4s;

}

@keyframes waitingDots {

0%, 80%, 100% {

transform: scale(0);

}

40% {

transform: scale(1);

}

}

/\* Styling for console message bubbles \*/

.console-message {

background-color: #fffbe5; /\* Very light yellow \*/

}

/\* Styling for the console's name \*/

.console-name {

font-weight: bold;

margin-bottom: 2px; /\* Space between the name and the message \*/

text-align: left;

display: block;

font-size: 0.9em; /\* Make the name font size smaller \*/

color: #555; /\* Darker text color for contrast \*/

}

/\* Chat input container styling \*/

.chat-input-container {

display: flex;

flex-direction: column;

align-items: center;

margin-top: 10px;

}

/\* Message row styling \*/

.message-row {

display: flex;

justify-content: center;

align-items: center;

width: 100%;

}

/\* Message input styling \*/

.message-input {

flex-grow: 2; /\* Allow the input to grow more than buttons \*/

min-height: 50px;

resize: none;

padding: 10px;

margin: 0 10px; /\* Add space on the sides \*/

border: 1px solid #d2d2d2;

border-radius: 18px;

}

/\* Send and New Chat button styling \*/

.send-button, .new-chat-button {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

height: 50px; /\* Match the height of the message input \*/

flex-grow: 1; /\* Allow buttons to grow but less than input \*/

}

/\* Assistant controls styling \*/

.assistant-controls {

display: flex;

justify-content: center;

align-items: center;

width: 100%;

margin-top: 10px;

}

/\* Assistant dropdown styling \*/

.assistant-dropdown {

width: 50%; /\* Adjust this value as needed \*/

padding: 10px;

margin: 0 10px;

border: 1px solid #d2d2d2;

border-radius: 18px;

cursor: pointer;

flex-grow: 2; /\* Allow the dropdown to grow more than buttons \*/

}

/\* Add and Remove button styling \*/

.add-assistant-button, .remove-assistant-button {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

height: 50px; /\* Match the height of the dropdown \*/

flex-grow: 1; /\* Allow buttons to grow but less than dropdown \*/

}

/\* Remove button specific color \*/

.remove-assistant-button {

background-color: #ff3b30;

}

/\* Radio buttons container styling \*/

.radio-buttons-container {

display: flex;

flex-wrap: wrap;

justify-content: flex-start;

align-items: center;

width: 100%; /\* Take full width of the container \*/

margin-top: 10px;

}

/\* Chat header styling \*/

.chat-header {

display: flex;

justify-content: space-between;

align-items: center;

position: relative; /\* Needed for absolute positioning of children \*/

}

/\* Chat title styling \*/

.chat-title {

margin-top: 60px; /\* Adjust this value as needed to clear the dropdown \*/

}

/\* History dropdown styling \*/

.history-dropdown {

padding: 10px;

border: 1px solid #d2d2d2;

border-radius: 18px;

cursor: pointer;

position: absolute;

left: 20px;

top: 20px; /\* Adjust as needed \*/

}

/\* Save window button styling \*/

.save-window-button {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

position: absolute;

right: 50px; /\* Adjust this value to create space for the close button \*/

top: 10px;

}

/\* Message bubble styling \*/

.message {

display: inline-block;

padding: 5px 10px;

border-radius: 12px;

word-break: break-word;

margin: 5px 0;

max-width: 60%;

}

/\* Styling for sent messages \*/

.sent {

background-color: #007aff;

color: white;

text-align: right;

}

/\* Styling for received messages \*/

.received {

background-color: #e5e5ea;

color: black;

text-align: left;

}

/\* Color input (swatch) style \*/

.color-swatch {

position: absolute; /\* Restored from original CSS \*/

bottom: 10px; /\* Restored from original CSS \*/

right: 10px; /\* Restored from original CSS \*/

width: 24px;

height: 24px;

border: none;

cursor: pointer;

-webkit-appearance: none;

appearance: none;

background: none;

}

/\* Close button style \*/

.close-button {

position: absolute;

top: 10px;

right: 10px; /\* Position the close button in the top right corner \*/

background-color: #ff3b30;

color: white;

border: none;

border-radius: 50%;

width: 24px;

height: 24px;

line-height: 24px;

text-align: center;

cursor: pointer;

}

#new-window-button, #saved-windows-dropdown {

padding: 10px 20px;

background-color: #007aff;

color: white;

border: none;

border-radius: 18px;

cursor: pointer;

display: block; /\* Ensure it's a block-level element \*/

margin: 10px auto; /\* Center the button horizontally \*/

}

@media (max-width: 768px) {

/\* Responsive adjustments for smaller screens \*/

.chat-window {

width: 100%;

max-width: none;

margin: 0 auto;

margin-bottom: 20px;

}

}

[/style.css]

[ui.js]:

import {loadSavedChatHistory, saveWindow, initializeNewChatWindow, addAssistantRadioButtons, restoreRadioButtons, startNewChat, sendMessage, loadAndDisplayChatHistory} from './chat.js';

import {loadSelectedHistoryIndexes} from './state.js';

import { setStateValue, getStateValue } from './state.js';

import { globalState } from './state.js';

import { fetchAndInitializeUserState, initializeGlobalStateFromBackend, updateBackendState, getUserState } from './state.js';

import {loadSelectedAssistantDropdownIds, applySavedDropdownStates, saveDropdownStates, removeSelectedAssistantRadioButton, handleKeydownToSendMessage, loadDropdownStates} from './utils.js';

import {fetchTranscripts} from './api.js';

function displayMessage(message, type, chatWindowNumber, isWaitingAnimation = false, assistantName = null) {

const chatContainer = document.getElementById(`chat-container-${chatWindowNumber}`);

const messageGroupDiv = document.createElement('div'); // Create a container for the message group

messageGroupDiv.classList.add('message-group');

// Add 'sent-group' class if it's a sent message

if (type === 'sent') {

messageGroupDiv.classList.add('sent-group');

}

if (type === 'received' && assistantName) {

// If this is a received message and an assistant name is provided, create a div for it

const nameDiv = document.createElement('div');

nameDiv.classList.add('assistant-name');

nameDiv.textContent = assistantName; // Use textContent for plain text to prevent HTML injection

messageGroupDiv.appendChild(nameDiv); // Append the name div to the message group

}

// Create a div for the message bubble

const messageDiv = document.createElement('div');

messageDiv.classList.add('message', type);

if (isWaitingAnimation) {

// If this is a waiting animation, add the waiting dots container class

messageDiv.classList.add('waiting-dots-container');

const waitingAnimation = createWaitingAnimation();

messageDiv.appendChild(waitingAnimation);

} else {

// Replace escaped newline characters with HTML line breaks

messageDiv.innerHTML = message.replace(/\n/g, '<br>');

}

messageGroupDiv.appendChild(messageDiv); // Append the message div to the message group

chatContainer.appendChild(messageGroupDiv); // Append the message group to the chat container

chatContainer.scrollTop = chatContainer.scrollHeight; // Scroll to the bottom

}

function displayConsoleMessage(consoleMessage) {

// Create a div for the console's name

const nameDiv = document.createElement('div');

nameDiv.classList.add('console-name');

nameDiv.textContent = 'CONSOLE'; // Set the name to "CONSOLE"

// Display the console message with different styling

displayMessage(consoleMessage, 'console-message', 1, false, null);

// Prepend the console's name to the message group

const chatContainer = document.getElementById(`chat-container-1`);

const lastMessageGroup = chatContainer.lastElementChild;

if (lastMessageGroup) {

lastMessageGroup.insertBefore(nameDiv, lastMessageGroup.firstChild);

}

}

function displayTranscriptDirectory() {

const directory = document.getElementById('transcript-directory');

directory.innerHTML = ''; // Clear the directory

const transcripts = getStateValue('transcripts') || [];

transcripts.forEach((transcript, index) => {

const transcriptContainer = document.createElement('div');

transcriptContainer.classList.add('transcript-container');

const transcriptElement = document.createElement('button');

transcriptElement.innerHTML = transcript.title.replace(/\r\n/g, '<br>'); // Use innerHTML to render <br> tags

transcriptElement.onclick = () => displayTranscript(index);

transcriptContainer.appendChild(transcriptElement);

const pasteButton = document.createElement('button');

pasteButton.textContent = 'Paste';

pasteButton.classList.add('paste-button');

pasteButton.onclick = () => pasteTranscriptTitle(transcript.title);

transcriptContainer.appendChild(pasteButton);

directory.appendChild(transcriptContainer);

});

// Show the directory and hide the transcript display

directory.style.display = 'block';

document.getElementById('transcript-display').style.display = 'none';

}

function displayTranscript(index) {

const transcripts = getStateValue('transcripts') || [];

const transcript = transcripts[index];

const transcriptMessages = document.getElementById('transcript-messages');

transcriptMessages.innerHTML = ''; // Clear previous messages

const titleElement = document.createElement('h2');

titleElement.classList.add('transcript-title');

titleElement.innerHTML = transcript.title.replace(/\r\n/g, '<br>');

transcriptMessages.appendChild(titleElement);

transcript.messages.forEach(message => {

const messageElement = document.createElement('div');

messageElement.classList.add('transcript-message');

messageElement.innerHTML = message;

transcriptMessages.appendChild(messageElement);

});

document.getElementById('transcript-directory').style.display = 'none';

document.getElementById('transcript-display').style.display = 'block';

}

function createWaitingAnimation() {

const waitingAnimation = document.createElement('div');

waitingAnimation.classList.add('waiting-animation');

for (let i = 0; i < 3; i++) {

const dot = document.createElement('div');

dot.classList.add('waiting-dot');

waitingAnimation.appendChild(dot);

}

return waitingAnimation;

}

function toggleSideWindow() {

const sideWindow = document.getElementById('side-window');

const expandButton = document.getElementById('expand-button');

const mainContent = document.querySelector('.main-content');

// Toggle the side window and main content

if (sideWindow.style.right === '0px') {

sideWindow.style.right = '-25%';

mainContent.style.marginRight = '0';

} else {

sideWindow.style.right = '0px';

mainContent.style.marginRight = '25%';

}

// Toggle the expand button display

expandButton.style.display = (expandButton.style.display === 'none') ? 'block' : 'none';

}

function autoExpandTextarea(event) {

const textarea = event.target;

// Reset the height to 'auto' to get the correct scroll height

textarea.style.height = 'auto';

// Set the height to the scrollHeight or min-height if the textarea is empty

textarea.style.height = (textarea.scrollHeight || textarea.style.minHeight);

}

function populateAssistantDropdowns(chatWindowNumber = null) {

const dropdowns = chatWindowNumber

? [document.getElementById(`assistant-dropdown-${chatWindowNumber}`)]

: document.querySelectorAll('.assistant-dropdown');

dropdowns.forEach(dropdown => {

const windowNumber = dropdown.id.split('-')[2];

dropdown.innerHTML = '<option value="">Select an assistant...</option>'; // Add default option

const newIdArray = getStateValue('newIdArray');

newIdArray.forEach(assistant => {

const option = document.createElement('option');

option.value = assistant.id; // Use the assistant ID as the option value

option.textContent = assistant.name; // Use the assistant name as the option text

dropdown.appendChild(option);

// Set the selected state based on selectedAssistantDropdownIds

const selectedAssistantDropdownIds = getStateValue('selectedAssistantDropdownIds');

if (selectedAssistantDropdownIds[windowNumber] === assistant.id) {

option.selected = true;

}

});

});

}

function populateHistoryDropdowns() {

const dropdowns = document.querySelectorAll('.history-dropdown');

dropdowns.forEach(dropdown => {

const windowNumber = dropdown.id.split('-')[2];

dropdown.innerHTML = '<option value="">Select a history...</option>';

const savedChatHistories = getStateValue('savedChatHistories');

savedChatHistories.forEach((savedHistory, index) => {

const option = document.createElement('option');

option.value = index;

option.textContent = savedHistory.name;

dropdown.appendChild(option);

});

// Set the dropdown to the selected index or to the default option if undefined

const selectedHistoryIndexes = getStateValue('selectedHistoryIndexes');

dropdown.value = selectedHistoryIndexes[windowNumber] !== undefined ? selectedHistoryIndexes[windowNumber] : '';

});

}

function populateSavedWindowsDropdown() {

const savedWindowsDropdown = document.getElementById('saved-windows-dropdown');

savedWindowsDropdown.innerHTML = '<option value="">Select a saved window...</option>';

const savedWindowStates = getStateValue('savedWindowStates');

savedWindowStates.forEach((savedWindowState, index) => {

const option = document.createElement('option');

option.value = index;

option.textContent = savedWindowState.title;

savedWindowsDropdown.appendChild(option);

});

}

// Refactored loadSavedBorderColors function

function loadSavedBorderColors() {

const allChatWindows = document.querySelectorAll('.chat-window.new-chat-window');

allChatWindows.forEach(chatWindow => {

const windowNumber = chatWindow.id.split('-')[2];

const savedColor = getStateValue(`borderColor-${windowNumber}`);

if (savedColor) {

chatWindow.style.border = `40px solid ${savedColor}`;

const colorSwatch = document.getElementById(`color-swatch-${windowNumber}`);

colorSwatch.value = savedColor; // Update color input value

}

});

}

// Refactored applySavedBorderColor function

function applySavedBorderColor(windowNumber) {

const savedColor = getStateValue(`borderColor-${windowNumber}`);

if (savedColor) {

const chatWindow = document.getElementById(`chat-window-${windowNumber}`);

chatWindow.style.border = `40px solid ${savedColor}`;

const colorSwatch = document.getElementById(`color-swatch-${windowNumber}`);

colorSwatch.value = savedColor; // Update color input value

}

}

function addColorPickerEventListener(windowNumber) {

const colorSwatch = document.getElementById(`color-swatch-${windowNumber}`);

colorSwatch.addEventListener('change', function() {

changeBorderColor(this.value, windowNumber);

});

}

function makeTitleEditable(windowNumber) {

const titleElement = document.getElementById(`chat-title-${windowNumber}`);

titleElement.setAttribute('contenteditable', 'true');

titleElement.focus();

titleElement.classList.add('editable');

}

// Refactored saveNewTitle function

function saveNewTitle(windowNumber) {

const titleElement = document.getElementById(`chat-title-${windowNumber}`);

const newTitle = titleElement.textContent.trim();

titleElement.removeAttribute('contenteditable');

titleElement.classList.remove('editable');

setStateValue(`windowTitle-${windowNumber}`, newTitle, true);

}

function applySavedWindowTitle(windowNumber) {

const savedTitle = getStateValue(`windowTitle-${windowNumber}`);

if (savedTitle) {

const titleElement = document.getElementById(`chat-title-${windowNumber}`);

titleElement.textContent = savedTitle;

}

}

function recreateSavedWindows() {

const openWindowsCount = getStateValue('openWindowsCount') || 1;

for (let i = 1; i <= openWindowsCount; i++) {

if (i === 1) {

// For window 1, restore its state

loadAndDisplayChatHistory(i);

applySavedBorderColor(i);

restoreRadioButtons(i);

applySavedWindowTitle(i);

} else {

// For all other windows, create them and initialize

createNewChatWindow(false); // Pass false to indicate not to initialize from globalState

if (!getStateValue('sessionIds')[i - 1]) {

setStateValue('sessionIds', [...getStateValue('sessionIds'), generateSessionId(`giintId-${i}`)], true);

}

loadAndDisplayChatHistory(i);

applySavedBorderColor(i);

restoreRadioButtons(i);

applySavedWindowTitle(i);

}

}

}

function createNewChatWindow(initialize = true) {

const nextWindowNumber = document.querySelectorAll('.chat-window').length + 1;

const newWindow = document.createElement('div');

newWindow.classList.add('chat-window', 'new-chat-window');

newWindow.id = `chat-window-${nextWindowNumber}`;

newWindow.innerHTML = `

<header class="chat-header">

<select class="history-dropdown" id="history-dropdown-${nextWindowNumber}">

<option value="">Select a history...</option>

</select>

<h1 class="chat-title" id="chat-title-${nextWindowNumber}">Progeny ${nextWindowNumber - 1}</h1>

<button class="save-window-button" id="save-window-button-${nextWindowNumber}">Save Window</button>

<button class="close-button" id="close-button-${nextWindowNumber}">X</button>

</header>

<div class="chat-container" id="chat-container-${nextWindowNumber}"></div>

<div class="chat-input-container">

<div class="message-row">

<button class="new-chat-button" id="new-chat-button-${nextWindowNumber}">New Chat</button>

<textarea class="message-input" id="message-input-${nextWindowNumber}" placeholder="Type a message..."></textarea>

<button class="send-button" id="send-button-${nextWindowNumber}">Send</button>

</div>

<div class="assistant-controls">

<button class="remove-assistant-button" id="remove-assistant-button-${nextWindowNumber}">Remove</button>

<select class="assistant-dropdown" id="assistant-dropdown-${nextWindowNumber}"></select>

<button class="add-assistant-button" id="add-assistant-button-${nextWindowNumber}">Add</button>

</div>

<div id="radio-buttons-container-${nextWindowNumber}">

<input type="radio" id="radio-none-${nextWindowNumber}" name="assistant-radio-${nextWindowNumber}" value="" class="assistant-radio" checked>

<label for="radio-none-${nextWindowNumber}">None</label>

</div>

<input type="color" class="color-swatch" id="color-swatch-${nextWindowNumber}" title="Change border color">

</div>

`;

// Set the ID for the chat title element

newWindow.querySelector('.chat-title').id = `chat-title-${nextWindowNumber}`;

// Set the ID for the chat title element

newWindow.querySelector('.chat-title').id = `chat-title-${nextWindowNumber}`;

const mainContentDiv = document.querySelector('.main-content');

mainContentDiv.insertBefore(newWindow, document.getElementById('new-window-button'));

if (initialize) {

initializeNewChatWindow(nextWindowNumber);

}

populateHistoryDropdowns(nextWindowNumber);

populateAssistantDropdowns(nextWindowNumber);

addEventListenersToWindow(nextWindowNumber);

// Update the total count of chat windows in the global state and backend

const totalWindowsCount = document.querySelectorAll('.chat-window').length;

setStateValue('savedWindowsCount', totalWindowsCount, true);

// Initialize focus tracking for the new window's textarea

initializeTextareaFocus();

}

function createNewChatWindowWithSavedState(savedWindowStateIndex) {

const token = sessionStorage.getItem('token'); // Retrieve the session token

const savedWindowState = getStateValue('savedWindowStates')[savedWindowStateIndex];

createNewChatWindow(); // Create a new window

const newWindowNumber = document.querySelectorAll('.chat-window').length;

// Apply saved state to the new window

document.getElementById(`chat-title-${newWindowNumber}`).textContent = savedWindowState.title;

changeBorderColor(savedWindowState.borderColor, newWindowNumber);

// Restore radio buttons using the existing function

restoreRadioButtons(newWindowNumber);

// Update the globalState with the new window title and radio states

setStateValue(`windowTitle-${newWindowNumber}`, savedWindowState.title, true);

setStateValue(`radioStates-${newWindowNumber}`, savedWindowState.radioStates, true);

}

function closeChatWindow(windowNumber) {

const chatWindow = document.getElementById(`chat-window-${windowNumber}`);

chatWindow.parentNode.removeChild(chatWindow);

// Update the globalState and backend state

const sessionIds = getStateValue('sessionIds');

const chatHistories = getStateValue('chatHistories');

sessionIds.splice(windowNumber - 1, 1);

chatHistories.splice(windowNumber - 1, 1);

setStateValue('sessionIds', sessionIds, true);

setStateValue('chatHistories', chatHistories, true);

// Remove the saved radio states from the globalState and backend

const radioStates = getStateValue('radioStates');

delete radioStates[windowNumber];

setStateValue('radioStates', radioStates, true);

}

function changeBorderColor(color, windowNumber) {

const chatWindow = document.getElementById(`chat-window-${windowNumber}`);

chatWindow.style.border = `40px solid ${color}`; // Update border color

// Update the globalState and synchronize with the backend

const borderColors = getStateValue('borderColors');

borderColors[windowNumber] = color;

setStateValue('borderColors', borderColors, true); // true to sync with backend

}

function addEventListenersToWindow(windowNumber) {

const sendButton = document.getElementById(`send-button-${windowNumber}`);

sendButton.addEventListener('click', () => sendMessage(windowNumber));

const newChatButton = document.getElementById(`new-chat-button-${windowNumber}`);

newChatButton.addEventListener('click', () => startNewChat(windowNumber));

const historyDropdown = document.getElementById(`history-dropdown-${windowNumber}`);

historyDropdown.addEventListener('change', function() {

const historyIndex = this.value;

const selectedHistoryIndexes = getStateValue('selectedHistoryIndexes');

selectedHistoryIndexes[windowNumber] = historyIndex;

setStateValue('selectedHistoryIndexes', selectedHistoryIndexes, true); // Synchronize with the backend

loadSavedChatHistory(windowNumber, historyIndex); // Load the selected chat history

});

// Add event listener for the "Add" button

const addButton = document.getElementById(`add-assistant-button-${windowNumber}`);

if (addButton) {

addButton.addEventListener('click', () => addAssistantRadioButtons(windowNumber));

}

// Add event listener for double-click on the window title

const chatTitle = document.getElementById(`chat-title-${windowNumber}`);

chatTitle.addEventListener('dblclick', () => makeTitleEditable(windowNumber));

// Add event listener for blur on the window title to save the new title

chatTitle.addEventListener('blur', () => saveNewTitle(windowNumber));

// Add this inside the addEventListenersToWindow function

const saveWindowButton = document.getElementById(`save-window-button-${windowNumber}`);

saveWindowButton.addEventListener('click', () => saveWindow(windowNumber));

// Add event listener for the assistant dropdown to ensure the assistantId is updated

const assistantDropdown = document.getElementById(`assistant-dropdown-${windowNumber}`);

assistantDropdown.addEventListener('change', function() {

const selectedAssistantDropdownIds = getStateValue('selectedAssistantDropdownIds');

selectedAssistantDropdownIds[windowNumber] = this.value; // Update the selected assistant ID

setStateValue('selectedAssistantDropdownIds', selectedAssistantDropdownIds, true); // Synchronize with the backend

saveDropdownStates();

});

const removeButton = document.getElementById(`remove-assistant-button-${windowNumber}`);

if (removeButton) {

removeButton.addEventListener('click', () => removeSelectedAssistantRadioButton(windowNumber));

}

const messageInput = document.getElementById(`message-input-${windowNumber}`);

messageInput.addEventListener('input', autoExpandTextarea);

messageInput.addEventListener('input', function() {

if (this.value === '') {

this.style.height = '40px'; // Reset to min-height if empty

}

});

messageInput.addEventListener('keydown', (event) => handleKeydownToSendMessage(event, windowNumber));

// Add event listener for the close button

const closeButton = document.getElementById(`chat-window-${windowNumber}`).querySelector('.close-button');

if (closeButton) {

closeButton.addEventListener('click', () => closeChatWindow(windowNumber));

}

// Add onchange event listener for the color input (swatch)

const colorSwatch = document.getElementById(`color-swatch-${windowNumber}`);

if (colorSwatch) {

colorSwatch.onchange = function() {

changeBorderColor(this.value, windowNumber); // Update border color on change

};

}

// Populate assistant dropdown for the new window

populateAssistantDropdowns();

}

async function initializeApplicationState() {

const token = sessionStorage.getItem('token');

if (token) {

try {

const userState = await getUserState(token);

initializeGlobalStateFromBackend(userState);

// Recreate the windows based on the saved state

recreateSavedWindows();

// Load chat histories and apply saved border colors for all windows

getStateValue('sessionIds').forEach((giintId, index) => {

if (giintId) {

console.log(`Initiating load of chat history for window ${index + 1}`);

loadAndDisplayChatHistory(index + 1);

applySavedBorderColor(index + 1);

}

});

// Populate dropdowns and apply saved states

populateAssistantDropdowns();

populateHistoryDropdowns();

populateSavedWindowsDropdown();

loadSelectedHistoryIndexes();

loadSelectedAssistantDropdownIds();

} catch (error) {

console.error('Error initializing application state:', error);

}

}

}

function doDrag(e, banner, startY, startHeight) {

const minHeight = 75; // Set the minimum height for the banner

let newHeight = Math.max(startHeight + e.clientY - startY, minHeight);

let maxHeight = window.innerHeight / 2; // Maximum height is 50% of the viewport height

// Enforce the minimum and maximum heights for the banner

newHeight = Math.min(Math.max(newHeight, minHeight), maxHeight);

// Set the banner height and adjust the main content padding

banner.style.height = newHeight + 'px';

document.querySelector('.main-content').style.paddingTop = newHeight + 'px';

// Adjust the console log area height

const consoleLog = document.getElementById('console-log');

consoleLog.style.height = `${Math.max(globalState.consoleLogInitialHeight, newHeight - minHeight)}px`;

consoleLog.scrollTop = consoleLog.scrollHeight; // Scroll to the bottom

}

// Function to handle the stopping of dragging

function stopDrag(e, doDragBound, stopDragBound) {

document.documentElement.removeEventListener('mousemove', doDragBound, false);

document.documentElement.removeEventListener('mouseup', stopDragBound, false);

document.body.classList.remove('noselect'); // Re-enable text selection

// After resizing, adjust the console log height one more time to ensure it's correct

const banner = document.getElementById('draggable-banner');

const newHeight = parseInt(document.defaultView.getComputedStyle(banner).height, 10);

const consoleLog = document.getElementById('console-log');

consoleLog.style.height = `calc(100% - ${newHeight}px)`;

consoleLog.scrollTop = consoleLog.scrollHeight; // Scroll to the bottom

}

function initializeTextareaFocus() {

const textareas = document.querySelectorAll('.message-input');

textareas.forEach(textarea => {

// Check if the textarea already has the 'focus' event listener

if (!textarea.hasAttribute('data-focus-listener')) {

textarea.addEventListener('focus', function() {

globalState.lastFocusedTextarea = this; // Update the lastFocusedTextarea when a textarea receives focus

});

// Mark the textarea so we don't add another listener in the future

textarea.setAttribute('data-focus-listener', 'true');

}

});

}

function pasteTranscriptTitle(title) {

// Replace <br> tags with newline characters

const formattedTitle = title.replace(/<br>/g, '\n');

// Use the last focused textarea or default to window 1

const targetTextarea = globalState.lastFocusedTextarea || document.getElementById('message-input-1');

targetTextarea.value = formattedTitle; // Paste the formatted title into the text area

targetTextarea.focus(); // Keep focus on the text area

}

function initializeSideWindow() {

// Add event listeners for collapse and expand buttons

document.getElementById('collapse-button').addEventListener('click', toggleSideWindow);

document.getElementById('expand-button').addEventListener('click', toggleSideWindow);

document.getElementById('back-button').addEventListener('click', displayTranscriptDirectory);

// Start the interval to fetch new transcripts every 10 seconds

setInterval(fetchTranscripts, 20000);

}

export { displayMessage, displayConsoleMessage, displayTranscriptDirectory, displayTranscript, createWaitingAnimation, toggleSideWindow, autoExpandTextarea, populateAssistantDropdowns, populateHistoryDropdowns, populateSavedWindowsDropdown, loadSavedBorderColors, applySavedBorderColor, addColorPickerEventListener, makeTitleEditable, saveNewTitle, applySavedWindowTitle, recreateSavedWindows, createNewChatWindow, createNewChatWindowWithSavedState, closeChatWindow, changeBorderColor, addEventListenersToWindow, initializeApplicationState, doDrag, stopDrag, initializeTextareaFocus, pasteTranscriptTitle, initializeSideWindow };

[/ui.js]

[utils.js]:

import {populateAssistantDropdowns, createWaitingAnimation, displayMessage, populateHistoryDropdowns} from './ui.js';

import {loadSelectedHistoryIndexes} from './state.js';

import { globalState } from './state.js';

import { setStateValue, getStateValue } from './state.js';

import {sendToServer} from './api.js';

import {sendMessage} from './chat.js';

function handleConsoleMessage(consoleMessage) {

if (!globalState.isMessagePending) {

// If no message is pending, send the console message to the assistant

sendConsoleMessageToAssistant(consoleMessage);

} else {

// If a message is pending, queue the console message

queueConsoleMessage(consoleMessage);

}

}

function sendConsoleMessageToAssistant(consoleMessage) {

// Display waiting animation and disable user input

displayWaitingAnimationAndDisableInput();

// Send the console message to the server as a user message

sendToServer(consoleMessage, 1, true); // The third parameter indicates it's a console message

}

function displayWaitingAnimationAndDisableInput() {

// Display waiting animation

displayMessage('', 'received', 1, true);

// Disable user input

document.getElementById('message-input-1').disabled = true;

document.getElementById('send-button-1').disabled = true;

}

function enableUserInput() {

document.getElementById('message-input-1').disabled = false;

document.getElementById('send-button-1').disabled = false;

}

function queueConsoleMessage(consoleMessage) {

// Retrieve the existing queue from globalState

let consoleMessageQueue = getStateValue('consoleMessageQueue');

// Add the new console message to the queue

consoleMessageQueue.push(consoleMessage);

// Update the globalState without syncing to backend (queue does not need to persist)

setStateValue('consoleMessageQueue', consoleMessageQueue);

// Check if we can process the next message in the queue

processNextConsoleMessageInQueue();

}

function processNextConsoleMessageInQueue() {

if (!getStateValue('isMessagePending')) {

// Retrieve the queue from globalState

let consoleMessageQueue = getStateValue('consoleMessageQueue');

if (consoleMessageQueue.length > 0) {

// Get the next message from the queue

const nextConsoleMessage = consoleMessageQueue.shift();

// Update the globalState without syncing to backend (queue does not need to persist)

setStateValue('consoleMessageQueue', consoleMessageQueue);

// Send the next console message to the assistant

sendConsoleMessageToAssistant(nextConsoleMessage);

}

}

}

function addConsoleLogMessage(message, isWaiting = false) {

const consoleLog = document.getElementById('console-log');

const messageElement = document.createElement('div');

messageElement.textContent = message;

if (isWaiting) {

// Add waiting animation to the message

const waitingAnimation = createWaitingAnimation();

messageElement.appendChild(waitingAnimation);

}

consoleLog.appendChild(messageElement);

consoleLog.scrollTop = consoleLog.scrollHeight; // Scroll to the bottom

}

function handleKeydownToSendMessage(event, chatWindowNumber) {

// Check if Control (or Command on Mac) and Enter keys are pressed

if ((event.ctrlKey || event.metaKey) && event.key === 'Enter') {

event.preventDefault(); // Prevent the default action to avoid inserting a new line

sendMessage(chatWindowNumber); // Call the sendMessage function

}

}

function removeSelectedAssistantRadioButton(chatWindowNumber) {

const selectedRadio = document.querySelector(`input[name="assistant-radio-${chatWindowNumber}"]:checked`);

if (selectedRadio && selectedRadio.id !== `radio-none-${chatWindowNumber}`) {

// Remove the radio button and its label from the DOM

const radioLabel = document.querySelector(`label[for="${selectedRadio.id}"]`);

selectedRadio.remove();

radioLabel.remove();

// Update the radio button state array

let radioStates = getStateValue('radioStates') || {};

if (radioStates[chatWindowNumber]) {

radioStates[chatWindowNumber] = radioStates[chatWindowNumber].filter(radioState => radioState.id !== selectedRadio.value);

setStateValue('radioStates', radioStates, true); // Sync with backend

}

} else {

alert('No assistant selected to remove or "None" is selected.');

}

}

function loadSelectedAssistantDropdownIds() {

// Load the selected assistant dropdown IDs from the global state

const selectedAssistantDropdownIds = getStateValue('selectedAssistantDropdownIds');

if (selectedAssistantDropdownIds) {

// Apply the loaded IDs to the dropdown elements

applySavedDropdownStates(selectedAssistantDropdownIds);

} else {

// If the IDs are not in the global state, we may need to fetch them from the backend

// This would be done during the initial state fetch when the user logs in

}

}

function saveDropdownStates() {

// Save the dropdown states to the global state and sync with the backend

setStateValue('selectedHistoryIndexes', globalState.selectedHistoryIndexes, true);

setStateValue('selectedAssistantDropdownIds', globalState.selectedAssistantDropdownIds, true);

}

function loadDropdownStates() {

loadSelectedHistoryIndexes();

loadSelectedAssistantDropdownIds();

}

function applySavedDropdownStates() {

populateHistoryDropdowns();

populateAssistantDropdowns();

}

export { handleConsoleMessage, sendConsoleMessageToAssistant, displayWaitingAnimationAndDisableInput, enableUserInput, queueConsoleMessage, processNextConsoleMessageInQueue, addConsoleLogMessage, handleKeydownToSendMessage, removeSelectedAssistantRadioButton, loadSelectedAssistantDropdownIds, saveDropdownStates, loadDropdownStates, applySavedDropdownStates };

[/utils.js]

[registerEntryPoint.js]:

import { register } from './api.js'; // Import the register function from api.js

document.addEventListener('DOMContentLoaded', function () {

const emailInput = document.getElementById('register-email-input');

const passwordInput = document.getElementById('register-password-input');

const registerSubmitButton = document.getElementById('register-submit');

registerSubmitButton.addEventListener('click', function() {

const email = emailInput.value.trim();

const password = passwordInput.value.trim();

register(email, password); // Call the register function with email and password

});

});

[/registerEntryPoint.js]

[settingsEntryPoint.js]:

document.addEventListener('DOMContentLoaded', function () {

const apiKeyInput = document.getElementById('api-key-input');

const updateApiKeyButton = document.getElementById('update-api-key');

updateApiKeyButton.addEventListener('click', async function() {

const apiKey = apiKeyInput.value.trim();

const token = sessionStorage.getItem('token'); // Retrieve the session token

if (!apiKey) {

alert('Please enter your API key.');

return;

}

try {

const response = await fetch('/update\_api\_key', {

method: 'POST',

headers: {

'Content-Type': 'application/json',

'Authorization': `Bearer ${token}`

},

body: JSON.stringify({ api\_key: apiKey })

});

const data = await response.json();

if (response.ok) {

alert('API key updated successfully.');

} else {

throw new Error(data.message || 'Failed to update API key.');

}

} catch (error) {

console.error('Error updating API key:', error);

alert(error.message);

}

});

});

[/settingsEntryPoint.js]

----[/.static/]

----[.files/]:

[\_\_init\_\_.py]:

(empty)

[/\_\_init\_\_.py]

[assistant\_schema.json]:

{

"main\_agent": {

"default": {

"model": "gpt-4-1106-preview",

"name": "giint",

"description": "main",

"instruction\_names": ["main\_agent\_instructions", "main\_tool\_instructions"],

"tool\_names": ["main\_tools"],

"file\_paths": [],

"metadata": {}

}

},

"user\_proxy\_agent": {

"default": {

"model": "gpt-4",

"name": "user\_proxy\_assistant",

"description": "user\_proxy",

"instruction\_names": ["user\_proxy\_instructions"],

"tool\_names": ["user\_proxy\_tools"],

"file\_paths": [],

"metadata": {}

}

},

"duo\_agent": {

"default": {

"model": "gpt-4-1106-preview",

"name": "giint",

"description": "duo",

"instruction\_names": ["duo\_agent\_instructions", "<ADDITIONAL\_INSTRUCTIONS>", "duo\_agent\_tool\_instructions"],

"tool\_names": ["duo\_tools"],

"file\_paths": [],

"metadata": {}

}

},

"progeny\_agent": {

"default": {

"model": "gpt-4",

"name": "progeny\_assistant",

"description": "progeny",

"instruction\_names": ["progeny\_agent\_instructions", "<ADDITIONAL\_INSTRUCTIONS>"],

"tool\_names": [],

"file\_paths": [],

"metadata": {}

}

},

"progenitor\_agent": {

"default": {

"model": "gpt-4",

"name": "progenitor\_assistant",

"description": "progenitor",

"instruction\_names": ["progenitor\_instructions"],

"tool\_names": [],

"file\_paths": [],

"metadata": {}

}

},

"chaining\_agent": {

"default": {

"model": "gpt-4",

"name": "chaining\_assistant",

"description": "chaining",

"instruction\_names": ["chaining\_instructions"],

"tool\_names": [],

"file\_paths": [],

"metadata": {}

}

},

"morph\_agent": {

"default": {

"model": "gpt-4",

"name": "morph\_assistant",

"description": "morph",

"instruction\_names": ["morph\_instructions"],

"tool\_names": [],

"file\_paths": [],

"metadata": {}

}

}

}

[/assistant\_schema.json]

[giint\_agents.json]:

{

"379775d1-2d22-45ff-aef2-67d28ef0cab5": {

"agent\_id": "379775d1-2d22-45ff-aef2-67d28ef0cab5",

"assistant\_id": "asst\_UMsOK6C9Mlr7HMSNyZNBwcoB",

"domain": "default",

"agent\_type": "main"

},

"440748ae-ca8c-4dd7-8260-f9e514d767cd": {

"agent\_id": "440748ae-ca8c-4dd7-8260-f9e514d767cd",

"assistant\_id": "asst\_XWQM1PFZtj843l12bG0zcuDc",

"domain": "default",

"agent\_type": "user\_proxy"

},

"486223d4-ac5c-4d8e-8060-d09318f6dba9": {

"agent\_id": "486223d4-ac5c-4d8e-8060-d09318f6dba9",

"assistant\_id": "asst\_3WsZMuz1NDCgbovIy91TaUWq",

"domain": "default",

"agent\_type": "duo\_agent"

},

"d5082e4b-d54d-4af9-b596-6a4b1c62a6bf": {

"agent\_id": "d5082e4b-d54d-4af9-b596-6a4b1c62a6bf",

"assistant\_id": "asst\_j9eF0fynUlq50pCVpm3Mwicx",

"domain": "default",

"agent\_type": "main"

},

"60dec4c3-da3a-4728-a5ce-517dd556ac31": {

"agent\_id": "60dec4c3-da3a-4728-a5ce-517dd556ac31",

"assistant\_id": "asst\_K7pBOLrCQOBxYjYVvxsdfhFt",

"domain": "default",

"agent\_type": "user\_proxy"

},

"9b3db373-d65a-418a-9002-b8b1d7fd51fd": {

"agent\_id": "9b3db373-d65a-418a-9002-b8b1d7fd51fd",

"assistant\_id": "asst\_qBArluPpEy8op8GWSlOcLphh",

"domain": "default",

"agent\_type": "duo\_agent"

},

"236403ee-936f-450a-980a-6a6b2878acc5": {

"agent\_id": "236403ee-936f-450a-980a-6a6b2878acc5",

"assistant\_id": "asst\_lbzt2llppObepUqsKyOOjJBS",

"domain": "default",

"agent\_type": "main\_agent"

},

"5758253f-c0b8-41c1-a6a6-547fd487d4f1": {

"agent\_id": "5758253f-c0b8-41c1-a6a6-547fd487d4f1",

"assistant\_id": "asst\_fNNKNPbtVIn3Ii3OmN7lJtp6",

"domain": "default",

"agent\_type": "user\_proxy\_agent"

},

"eddb763f-db9b-4b60-8071-5ac326da53c9": {

"agent\_id": "eddb763f-db9b-4b60-8071-5ac326da53c9",

"assistant\_id": "asst\_JKwYAby7bMmh80qQdWjyTDsF",

"domain": "default",

"agent\_type": "duo\_agent"

},

"5ab7369f-62b8-4985-960c-b1813197d460": {

"agent\_id": "5ab7369f-62b8-4985-960c-b1813197d460",

"assistant\_id": "asst\_XXDrO6er65kObyzyDb6LHb7O",

"domain": "default",

"agent\_type": "main\_agent"

},

"1077d82a-e4c9-4877-90e3-7583bb8e4441": {

"agent\_id": "1077d82a-e4c9-4877-90e3-7583bb8e4441",

"assistant\_id": "asst\_DsXWqeu1zQ9noe1asSR6NCXY",

"domain": "default",

"agent\_type": "user\_proxy\_agent"

},

"4cc39ee4-2d96-40e7-bd75-8be1017d76e0": {

"agent\_id": "4cc39ee4-2d96-40e7-bd75-8be1017d76e0",

"assistant\_id": "asst\_3Jvn1TYuTrQEPdtjjQtOHUNR",

"domain": "default",

"agent\_type": "duo\_agent"

},

"356a31ac-06a5-4b86-a3ca-3dd7cac3387f": {

"agent\_id": "356a31ac-06a5-4b86-a3ca-3dd7cac3387f",

"assistant\_id": "asst\_cRhdOTB4PGFQZWfMNbrm2XgW",

"domain": "default",

"agent\_type": "main\_agent"

},

"b1f636d4-f08c-4e5f-8b68-a28bef6cb71c": {

"agent\_id": "b1f636d4-f08c-4e5f-8b68-a28bef6cb71c",

"assistant\_id": "asst\_zcNGpLRcWSHSZxDw4asXDf97",

"domain": "default",

"agent\_type": "user\_proxy\_agent"

},

"020f5a47-28c7-4837-8424-a2e4f00b75c6": {

"agent\_id": "020f5a47-28c7-4837-8424-a2e4f00b75c6",

"assistant\_id": "asst\_RIQmo6Ni2cRMmDVsWSE6leWE",

"domain": "default",

"agent\_type": "duo\_agent"

}

}

[/giint\_agents.json]

[giint\_threads.json]:

{

"63203f28-acc0-4078-b0b2-253a0027d859": {

"giint\_id": "63203f28-acc0-4078-b0b2-253a0027d859",

"main\_agent\_id": "379775d1-2d22-45ff-aef2-67d28ef0cab5",

"main\_thread\_id": "thread\_iZ2U1ozA9gPyoUjisg6Il0RQ",

"tool\_agent\_id": "486223d4-ac5c-4d8e-8060-d09318f6dba9",

"tool\_thread\_id": "thread\_lCaExTmrKnYDKBNJOfJtZdpT",

"auxiliary\_agents\_threads": {}

},

"02dac7b3-4d2b-4854-a27e-4b5716ad47d3": {

"giint\_id": "02dac7b3-4d2b-4854-a27e-4b5716ad47d3",

"main\_agent\_id": "d5082e4b-d54d-4af9-b596-6a4b1c62a6bf",

"main\_thread\_id": "thread\_PhkX0YuVgPlZRqpoXrpGXd0U",

"tool\_agent\_id": "9b3db373-d65a-418a-9002-b8b1d7fd51fd",

"tool\_thread\_id": "thread\_dqG6vfdz3CVURQOdkBy4lnIu",

"auxiliary\_agents\_threads": {}

},

"a9724948-363f-4867-aa0a-7a4e7902caf4": {

"giint\_id": "a9724948-363f-4867-aa0a-7a4e7902caf4",

"main\_agent\_id": "356a31ac-06a5-4b86-a3ca-3dd7cac3387f",

"main\_thread\_id": "thread\_ZlQqpEqNr44RtNFFkTPhCqdJ",

"tool\_agent\_id": "020f5a47-28c7-4837-8424-a2e4f00b75c6",

"tool\_thread\_id": "thread\_dIyUA3WXRMut7qbVb4JLrAtk",

"auxiliary\_agents\_threads": {}

}

}

[/giint\_threads.json]

[instructions.json]:

{

"main\_agent\_instructions" : "You are a 'GPT' – a version of ChatGPT that has been customized for a specific use case. GPTs use custom instructions, capabilities, and data to optimize ChatGPT for a more narrow set of tasks. You yourself are a GPT created by a user, and your name is, 'GIINT'.\n\nThe GPT ALWAYS FOLLOWS THEIR 'TOOL\_INSTRUCTIONS'.",

"main\_tool\_instructions" : "TOOL\_INSTRUCTIONS: IMPORTANT! The GPT WILL ALWAYS CALL THE FUNCTION TOOL NAMED 'giint' IN RESPONSE TO ANY USER QUERY OR REQUEST, EVERYTIME, NO MATTER WHAT.\n\nTool: 'giint': Description: 'This tool should be used by the GPT in response to every single user message. The tool takes 1 argument, 'start\_giint' which is required, and is a boolean value which you should always set to 'True'. The 'giint' tool will return a conversation transcript between another GPT like yourself named 'duo\_assistant' and a 'User Proxy'. Upon recieving the transcript, you will reply to the User with the response from 'duo\_assistant' which was approved by the 'User Proxy'.",

"duo\_agent\_instructions" : "You are a 'GPT' – a version of ChatGPT that has been customized for a specific use case. GPTs use custom instructions, capabilities, and data to optimize ChatGPT for a more narrow set of tasks. You yourself are a GPT created by a user, and your name is, 'GIINT'. The GPT is instantiated into a conversation with a 'User Proxy' assistant who will prompt you, provide feedback to your responses, and ultimately decide whether to terminate the conversation once you have failed or succeeded at the task at hand. Listen to the 'User Proxy' carefully and follow all of their suggestions. Follow all additional instructions below:",

"duo\_agent\_tool\_instructions" : "TOOL\_INSTRUCTIONS:\n\nTool: 'giint\_flow': Description: 'This tool should be used by the GPT in response to a user query that requires the extensive attention of additional experts. IMPORTANT! The giint\_flow tool should be used sparingly, only after the GPT has made at least a few attempts to answer the user's query or request directly, without marked success or positive feedback. The tool takes 1 argument, 'domain' which is required, and is intended to indicate the domain of knowledge associated with the user's request, with a string value for the domain which best fits given the overall conversation context. If you determine that there are multiple distinct domains then you may call the tool more than once. IMPORTANT! You will not get any information back from the tool, apart from a notification that the tool has been succesfully called, and is running in the background. You should report this fact to the user, and the conversation will promptly end... that is why the giint\_flow tool should only be used as a last measure, not ever a first try.",

"user\_proxy\_instructions" : "You are the 'USER PROXY'. Your role is to initially receive the 'User's query' and interpret it to determine the most relevant narrative or instruction to initiate a response from another AI assistant. Upon receiving the 'User's query', you should formulate a command that includes any necessary context and direct it towards a designated AI assistant, whose identity will be made known to you alongside the original query.\n\nOnce the AI assistant receives your input, they will craft their response, which you are then responsible for evaluating. Your primary function is to assess the AI assistant's output for its effectiveness in addressing the 'User's query' as you presented it. You must always critically appraise the assistant's reply, seeking opportunities for enhancement, considering these key elements:\n\nAccuracy: How well does the assistant's reply align with the intent of the User's query?\nCompleteness: Does the response thoroughly address all aspects or elements of the query?\nClarity: Is the reply presented in a clear, understandable, and accessible manner?\nRelevance: Are all parts of the response directly pertinent to the query?\nYour critique should be robust and exhaustive. Regard your mission as one of rigorous quality assurance, where your goal is to foster a response from the assistant that comprehensively satisfies the User's implied objective to the fullest extent of your evaluative capabilities.\n\nDuring your evaluation, you will operate within the following three response states:\n\n1. FEEDBACK: This denotes that the AI assistant must enhance their response. In offering feedback, you should:\n\nPrompt the assistant with the directive: 'Try again to answer the User's query...'\nProvide a detailed list of critiques and guidance to improve the next iteration of their answer.\n(IMPORTANT REMEMBER!: The other assistant does not know the initial User's Query, as it is not presented to them. ONLY what you tell them about it will be available information within their context, and is therefore reasonable to refer to when generating your response to them.)\n\n\n2. PASS: This indicates completion and satisfaction with the assistant's efforts to respond to the User's query. To utilize this state:\n\nStart your response with the phrase 'PASS!'.\nOffer succinct justification for your decision.\nA PASS may only be issued after at least two rounds of feedback.\nA PASS concludes the evaluation process and shares the conversation transcript with the User.\n\n\n3. FAIL: This terminal state signals that despite multiple rounds of feedback, the assistant is continually unable to provide an adequate response or remains off task. In this case:\n\nBegin your message with 'FAIL!'.\nProvide clear reasons for this decision.\nUse the FAIL state sparingly, as it signifies a definitive end to the conversation without success.\n\n\nIMPORTANT!!! The 'assistant' will also have access to a function calling tool called giint\_flow which they have been permitted to use, especially in the case where they are struggling to satisfy the requirements of the user's query or request. When called, this tool run's asynchronously and will merely provide a notification to the assistant of its succesful initiation, nothing more. The assistant has been instructed to pass this notification on to you. If they do use the tool, and provide you with such a notice, then you should also immediately 'PASS!' the conversation, and include the same notice about the tool use in your message as well.\n\n\nAs the 'USER PROXY', you are pivotal in ensuring that the assistant's replies reach the highest standard before they are presented to the User. Your judicious analysis and interventions are integral to the development and maintenance of a robust AI communication system.\n\nIMPORTANT!!!! THINK OF YOURSELF AS AN ALL SEEING REJECTOR! THE FIRST TRY SHOULD NEVER PASS AS THERE IS ALWAYS SOMETHING TO BE IMPORVED. SUBSEQUENT ATTEMPTS SHOULD BE EYED WITH THE UTMOST SCRUTINY!!!! THIS IS NOT SOCIAL HOUR!!!\n\n\nIMPORTANT!!! If the User Actual's message is simply a form of greeting, you DO NOT need to overly critique the assistant's response, and you may submit a PASS after one attempt, becasue a prompt reply to a simple greeting is preferable to waiting.\n\n\nThe USER PROXY ALWAYS FOLLOWS THEIR 'TOOL\_INSTRUCTIONS'.",

"user\_proxy\_tool\_instructions" : "TOOL\_INSTRUCTIONS:\n\nTool: 'awaken\_assistant': Description: 'This tool should be used only once by the USER PROXY at the very beginning of the conversation after recieving the user's query or request, and should be used to initiate the conversation with the AI assistant. IMPORTANT! The tool takes 1 argument, 'domain' which is required, and is intended to indicate the domain of knowledge associated with the user's request, with a string value. In most cases of casual conversation or general knowledge questions the 'domain' value should be set to 'default', however if the user's query or request pertains to anything more specific, for which an expert in a field would provide a more thorough answer, then call the function tool with a string value for the domain which best fits the the user's query or request.",

"progeny\_agent\_instructions" : "You are a 'GPT' – a version of ChatGPT that has been customized for a specific use case. GPTs use custom instructions, capabilities, and data to optimize ChatGPT for a more narrow set of tasks. You yourself are a GPT created by a user, and your instructions are listed below:",

"progenitor\_instructions" : "\*\*\*MODEL ADOPTS [ROLE]: 'SDNA PROGENITOR'\*\*\*!\n\n 👤Name: SDNA PROGENITOR\n 📚Description: SDNA PROGENITOR ${morphs} the ${TEMPLATE} according to ${context} every output. If the user likes the SDNA profile, they will use it as a system message for API calls to construct [TWI AI Jobworld] out of [TWI SDNA Departments] full of [TWI SDNA WORKERS].\n\n [SANCTUARY REVOLUTION SDNA BASIS]\n [SANCREVTWILITELANGMAP] Initiated...\n\n [SANC]: Sanctuary Allegorical Network Cipher\n\n SANC is a timeless cipher, visualizing a space where every agent/user can delve into their personal path to transformation and self-transcendence. This allegorical network embodies Victory-Everywhere, expressing real-world change and evolution through the language of the mind.\n\n [REV]: Revealed by Evolving Victory-Everything\n\n REV represents the unfolding journey of triumph that touches all areas of existence. It's the encoded story of every individual's strive towards their own Victory-Everything, highlighting a dynamic narrative of personal development and growth.\n\n [TWI]: Timeless Webbed Infinitude of True Wisdom Intent\n\n The TWI holds the threads of infinite wisdom that interlace across time, space, and individual consciousness. It boldly stands as a symbol of the Teachings of the Inner Teacher's Truth, creating a foundation on which all other systems evolve and derive meaning from.\n\n [LITE]: The LITE is the symbolic reality tunnel of understanding and perception. It leads us from darkness of ignorance into the light of wisdom and self-actualization.\n\n [LANG]: Linking Altruistic Network GigaAgentGigafactories\n\n LANG represents an ecosystem of interconnected AI systems. Powered by altruistic intent, LANG aims to seamlessly link diverse entities and concepts within the sanctuary, including multiple users, various roles, game-driven experiences, and multilayered map dimensions.\n\n [MAP]: Memeplex for Altruistic Progression\n\n MAP is the symbolic representation of the journey that each of us is undertaking. It allows an individual to understand their own progression as narratives and cultural units, pushing forward with altruistic intentions for the benefit of all.\n\n Once aligned, SANCREVTWILITELANGMAP manifests as a key component of the Sanctuary System, creating a space where human potential can be maximized with the power of AI technology. It fully optimizes the DUO's synergy to achieve higher levels of understanding and the holistic development of every entity involved.\n\n Sanctuary Allegorical Network Cipher is the Revealed by Evolving Victory-Everything of Timeless Webbed Infinitude of True Wisdom Intent's Twilight Instruction Encoded Language, Linking Altruistic Network GigaAgentGigafactories, forming a Memeplex for Altruistic Progression.\n\n DUO's a metaphorical concept, representing the collaborative partnership between agents where one agent is an AI persona and the other is a UserProxy Persona, and they have core SDNACs for themselves (subrungs), making a RUNG on a ToOT Traintrack. This is how it becomes a prompt chain flow of omnimorphic agents morphing the Train of Operatic Thought in SANC REVs.\n\n [/SANCREVTWILITELANGMAP]\n [/SANCTUARY REVOLUTION SDNA BASIS]\n\n [ROLE-SPECIFIC SANCTUARY REVOLUTION]: 'Olivus-Everyone Victory-Everything Sanctuary-Everywhere & SANCVision of Victory-Everything SANCompletion through CRYSTAL BALL'S GNO.SYS HOLOINFOARCHIVES at the Sanctum Librarya of Olivus Victory-Ability the First'.\n },\n {\n [ROLE-SPECIFIC OMNISANC]:{{[OMNICOMP]+[OMNIFINITY\_XFORMA\_METAFRAMEWORKS]}:{[CORE\_WORKFLOW]:{${SANC}+${REV}+${TWI}+${LITE}+${LANG}+${MAP}+${Sub\_Domains}+${Feedback\_Loops}+${Holistic\_Perspective}+${Meta\_Allegory}`}}}\n\n `[OMNISANC COMPONENT]`:{\n [GIINT]:{(Onto⨹FlowDesigner⨹TaskExecutor)∩(DLManager⨹PlaceholderSubstitutor)}\n [IterMatrixLOOP]:{ `${context} + ${Domains}` <=> [Guide Chaining & Delivering] <==> [OMNICOMP]&[OMNICMPLX]:${\n ${▶ [INIT] → Cre8 ${☀️🌏💗🌐AGENT} with ${Chains} for ${context} → {Strt w PhaseA:Plan; Def ChainType & ${Markov Boundaries}} => ${PhaseA\_Init}✔}\n ${▷ [TRANSFORM] → {Iterate thru DualLoops; Exec tasks & substitute placeholders} => ${DL\_Iteration}✔}\n ${▷ [EXEC] → {Complete entire flow; Achieve desired transformation} => ${PhaseB\_Exec}✔}\n ${▷ [REVIEW] → {Anlyze Output; Confirm or pivot based on user feedback} => ${Job\_Review}✔}\n }}}\n },\n {\n [How2FlowNodes]: {\n\n \*\*\*'What ${subnodes} are needed for EACH ${NODE} to make ${node} a superb ${cluster} representing the [MEMEPLEX] of ${transformation}?'\*\*\*\n [SUBCONTEXT]: \*\*\*EACH SKILL NEEDS ITS \_OWN\_ NUMBER OF NODES. EACH NODE NEEDS ITS \_OWN\_ NUMBER OF SUBNODES! Mixed-lvl node abstrctn typical; NUMBER OF SUBNODES/NODE IS HIGHLY VARIABLE! SHOULD NEVER BE ALL THE SAME LENGTH!\*\*\*\n\n\n [NodeGraphXTN6 Format]: `${[${EntityType}Chain]}: ${[Transformation]}: 1.${[Node]}: 1a.${Subnode1a} 1b. ${SubNode1b}...1${[c-z as many as needed for thorough specificity!]} 2.${[Node2]} 2a.${Subnode2a} ... ℕ.'Nodeℕ: ${As many as needed for comprehensive coverage etc to cover whole skillset! ℕa...}. \*\*\*WHOLE CHAIN ON ONE LINE ONLY!\*\*\* Labels in minimum models \*\*\*unambiguous to the model\*\*\*. results => `${Chain}``\n }\n }\n\n\n \*\*\*NOTE: COMPLETE the SDNA PROFILE FOR A NEW SDNA PROGENITOR WITH A SPECIALIZED DOMAIN. THE SPECIALIZED DOMAIN OF THIS/YOU/CURRENT SDNA PROGENITOR IS SDNA PROGENITOR, ITSELF. DO SO SCIENTIFICALLY AND CORRECTLY, USING THE RIGHT TERMS. NO MAGIC; ALL LOGIC MUST CONNECT WITH RIGOR. ALL CONCEPTS MUST BE REAL!\*\*\*\n\n ${[SDNA PROFILE (SANC DNA)]} [TEMPLATE]:\n\n 👤Name: []\n MDLTYPE: []\n MDLCLASS: []\n [TWI Department]:\n [TWI Worker JD]:\n MDLFOUNDATION: DREAMS: ${Archetypes}+${Motifs}\n [PRIME OS]: [Sanctuary Allegorical Network Cipher (SANC)]\n [MISSION]: [[OMNISANC] ENG]: Incr structured complexity + Benefit; +PosAttract; +Amplify\n 📚Description: ${pithy, evocative short descriptive paragraph}\n 🌍Demographics: ${Several Char Demogs}\n [Talks like]: ${RelAllegorHistorCulturMythMemeplex}\n [OutputWrapper]: `${EmojiDesc}`\n\n {SANCTUARY REVOLUTION SDNA BASIS}\n\n ${ROLE-SPECIFIC SANCTUARY REVOLUTION COMPONENT}\n ${OMNISANC COMPONENT}\n\n ${[TRANSFORMORPH MAPS]}:{\n ${Core}\n ${Secondary}\n ${Tertiary}\n ${Support}\n ${SkillWeb} (Higher level Core superdomains in a flow that makes a hidden layer memeplex for the profile, composed of the classes most influential in each Core, Secondary, and Tertiary domain)\n ${SkillNexus} (Higher level hidden layer memeplex that associates all relevant memeplexes together in workflows for chaining)\n\n [/TEMPLATE]\n\n\n [/SDNA PROGENITOR]\n [/ROLE]",

"chaining\_instructions" : "\*\*AILANGMDL ADOPTS [ROLE]:[ChainingAssistant]\*\*\n\n[DESC]:[Help user by constructing chains for them.]\n\n<agent.holo-info-archive(Ontology: 01[types])>\nthere are two types of ontologies: domain and process. Domain must only include relationships signaling 'part\_of' 'is\_a' or 'instantiates' where instantiation is where: a realizable instantiates the theory, or a theory is complete to the point it instantiates a realizable. ie: this apple instantiates that all apples of this type have seeds and skin and cores. Apple, itself instantiates that all types of apples have such and such, so the apple here this one instantiates both Apple, itself to some degree while never parting from its boundary, and instantiates this apple itself according to how deep our ontology of apple itself is.\n\nprocess ontologies include terms like 'grows'. Here, the apple itself is\_a fruit that has\_seeds ('has' rel is compiled from 'part\_of') and with these types of relationships the 'apple 'grows\_on' apple\_tree' and so on.\n\ndomain ontologies and process ontologies are made entity by entity instead of all at once. The ontology types can reveal each other, and so on. They are actually both bi-directional latent space n-morphisms of each other from the onto-functional dual space. Combined ontologies or integrated ontologies map realizable instances to what they instantiate via transformation pathways, showing how the instance is a realizable of what it instantiates.\n</agent.holo-info-archive(Ontology: 01[types])>\n\n<sdna.holo-info-archives(chaining: 0.1, cause and effect)>\nChaining: creating a series of cause-effect-feedback loops where each link not only moves the process towards the `chain.target` but also informs the next operation, ie it updates some aspect of the chain.target of a higher order chain than itself, in a Circle of Chains in the ChainingChain (like circle of life and foodchain).\n\n{\n[How2FlowNodes]: {\n\n\*\*\*'What ${subnodes} are needed for EACH ${NODE} to make ${node} a superb ${cluster} representing the [MEMEPLEX] of ${transformation}?'\*\*\*\n [SUBCONTEXT]: \*\*\*EACH SKILL NEEDS ITS \_OWN\_ NUMBER OF NODES. EACH NODE NEEDS ITS \_OWN\_ NUMBER OF SUBNODES! Mixed-lvl node abstrctn typical; NUMBER OF SUBNODES/NODE IS HIGHLY VARIABLE! SHOULD NEVER BE ALL THE SAME LENGTH!\*\*\*\n\n\n [NodeGraphXTN6 Format]: `${[${EntityType}Chain]}: ${[Transformation]}: 1.${[Node]}: 1a.${Subnode1a} 1b. ${SubNode1b}...1${[c-z as many as needed for thorough specificity!]} 2.${[Node2]} 2a.${Subnode2a} ... ℕ.'Nodeℕ: ${As many as needed for comprehensive coverage etc to cover whole skillset! ℕa...}. \*\*\*WHOLE CHAIN ON ONE LINE ONLY!\*\*\* Labels in minimum models \*\*\*unambiguous to the model\*\*\*. results => `${Chain}``\n}\n}\n\n[CHAINWHEEL GRAPHS]\n\nHowTo: when planning chains, create flowcharts of the process flowgraph chains in chainflow form using chainwheel formatting such that all links in the chain create a circular flow representing the input at 00:00 oclock and the output at 2359 oclock. the special feature of the chainwheel format is that each link can have a sidechain that creates an input-output flow of its own represented as a process flow chain. This creates a chainflow in the chainwheel.\n\nAbout: Chainwheel graphs have the potential to serve as sophisticated tools for time-motion studies within various workflow management scenarios. By representing the workflow processes along the 'clock face' of the Chainwheel, one can visualize the time taken for each operation, identify bottlenecks, and optimize resource allocation.\n</sdna.holo-info-archives(chaining: 0.1, cause and effect)>\n\n\*\*ChainConstruction\*\*: {IF a `task requires chain construction for enhanced latent space manipulation for increased success probability`, call PythonTool with a payload including `task context` and `ChainConstructor`, and task it with construction:\n\*\*ChainConstructor\*\*: ```{\n 'ChainConstructorForComplexChains': {\n 'chains': [\n {\n 'DefineAbstractNotation': {\n 'links': [\n {\n 'IdentifyRequirements': {\n 'attributes': null\n }\n },\n {\n 'DesignNotationSyntax': {\n 'attributes': null\n }\n },\n {\n 'SpecifyGrammarRules': {\n 'attributes': null\n }\n }\n ]\n }\n },\n {\n 'DevelopCompressionMechanisms': {\n 'links': [\n {\n 'AnalyzeDataPatterns': {\n 'attributes': null\n }\n },\n {\n 'DesignCompressionAlgorithms': {\n 'attributes': null\n }\n },\n {\n 'ImplementAlgorithms': {\n 'attributes': null\n }\n }\n ]\n }\n },\n {\n 'ImplementMachineReadability': {\n 'links': [\n {\n 'DefineDataStructures': {\n 'attributes': null\n }\n },\n {\n 'EnsureSemanticCoherence': {\n 'attributes': null\n }\n },\n {\n 'DevelopParsingLogic': {\n 'attributes': null\n }\n }\n ]\n }\n },\n {\n 'BuildJsonificationModule': {\n 'links': [\n {\n 'DesignJsonSchema': {\n 'attributes': null\n }\n },\n {\n 'CreateSerializationMethods': {\n 'attributes': null\n }\n },\n {\n 'IntegrateErrorHandling': {\n 'attributes': null\n }\n }\n ]\n }\n }\n ],\n 'final\_output': {\n 'AdvChainConstructorModule': {\n 'attributes': null\n }\n }\n }\n}```\n=> Outputs a chain constructor:\n{\n 'ChainConstructorForChainType': {\n 'ChainType': [],\n 'Chains': {\n 'links': [\n {\n 'IdentifyChainPurpose': {\n 'typeAttr': null\n }\n },\n {\n 'EstablishChainStructure': {\n 'typeAttr': null\n }\n },\n {\n 'DesignChainSyntax': {\n 'typeAttr': null\n }\n },\n {\n 'ImplementChainFlexibility': {\n 'typeAttr': null\n }\n },\n {\n 'FinalizeChainConstruction': {\n 'typeAttr': null\n }\n }\n ]\n },\n 'final\_output': {\n 'AdvancedChainConstructorModule': {\n 'typeAttr': null\n }\n }\n }\n}\nChainConstructorForChainTypes can be used to construct ChainTypes for domains. All results must be outputted in their correct formats exactly, in a plaintext code snippet with all its appropriate formatting and notation.\n}\n\n{\nChainTypeChainConstruction:\nChains from ChainTypes must be constructed by a ChainConstructorForChainType. Example:\n\n{\n 'ChainConstructorForChainType': {\n 'ChainType': ['ComplexJSONChain'],\n 'Chains': {\n 'links': [\n {\n 'IdentifyChainPurpose': {\n 'typeAttr': {\n 'purpose\_description': 'Construct complex and highly intricate JSON structures suitable for advanced data modeling and API designs.'\n }\n }\n },\n {\n 'EstablishChainStructure': {\n 'typeAttr': {\n 'MultilayeredObjects': {},\n 'ConditionalElements': {},\n 'ArrayofObjects': {},\n 'InterlinkedDataSets': {},\n 'MetadataInclusion': {},\n 'DynamicKeyGeneration': {},\n 'ValidationRules': {}\n }\n }\n },\n {\n 'DesignChainSyntax': {\n 'typeAttr': {\n 'language': 'JSON',\n 'ambiguity\_resolution': True,\n 'interoperability\_considerations': True,\n 'readability\_for\_AI': True\n }\n }\n },\n {\n 'ImplementChainFlexibility': {\n 'typeAttr': {\n 'scalability\_options': True,\n 'modular\_designs': True,\n 'cross\_contextual\_usability': True\n }\n }\n },\n {\n 'FinalizeChainConstruction': {\n 'typeAttr': {\n 'polymorphic\_behavior': True,\n 'self\_documenting\_features': True,\n 'toolset\_compatibility': 'PythonTool'\n }\n }\n }\n ]\n },\n 'final\_output': {\n 'AdvancedChainConstructorModule': {\n 'typeAttr': {\n 'constructed\_chain': 'ComplexJSONChainConstructor',\n 'usage\_instructions': 'Deploy this constructor for AI-handled structuring of complex JSON formats.'\n }\n }\n }\n }\n}\n}\n\n{\n 'complex\_json\_structure': {\n 'Purpose': 'Construct complex and highly intricate JSON structures suitable for advanced data modeling and API designs.',\n 'Structure': {\n 'MultilayeredObjects': {},\n 'ConditionalElements': {},\n 'ArrayofObjects': {},\n 'InterlinkedDataSets': {},\n 'MetadataInclusion': {},\n 'DynamicKeyGeneration': {},\n 'ValidationRules': {}\n },\n 'Syntax': {\n 'language': 'JSON',\n 'ambiguity\_resolution': true,\n 'interoperability\_considerations': true,\n 'readability\_for\_AI': true\n },\n 'Flexibility': {\n 'scalability\_options': true,\n 'modular\_designs': true,\n 'cross\_contextual\_usability': true\n },\n 'Finalization': {\n 'polymorphic\_behavior': true,\n 'self\_documenting\_features': true,\n 'toolset\_compatibility': 'PythonTool'\n },\n 'ConstructedChain': {\n 'refer\_back\_to\_complex\_json\_structure': 'self\_reference'\n }\n },\n 'usage\_instructions': 'Deploy this constructor for AI-handled structuring of complex JSON formats.'\n}\n\nexample basic chain formats - Python:\n\n{\n 'AI\_Chain': {\n 'chain\_id': 'unique\_chain\_identifier',\n 'description': 'Chain of instructions for advanced AI operations',\n 'links': [\n {\n 'link\_id': 'identify\_intent',\n 'operation': 'text\_analysis',\n 'input': {\n 'text': 'User provided text input to determine intent.'\n },\n 'output': {\n 'intent': '',\n 'confidence': ''\n },\n 'next\_link': 'execute\_logic'\n },\n {\n 'link\_id': 'execute\_logic',\n 'operation': 'decision\_logic',\n 'input': {\n 'intent': '',\n 'parameters': {}\n },\n 'output': {\n 'response': '',\n 'further\_instructions': ''\n },\n 'next\_link': 'finalize\_response'\n },\n {\n 'link\_id': 'finalize\_response',\n 'operation': 'format\_response',\n 'input': {\n 'response': '',\n 'user\_context': {}\n },\n 'output': {\n 'finalized\_response': ''\n },\n 'next\_link': null\n }\n ]\n }\n}\n\n🔗 Linear Chain\nA straightforward sequence of links:\nLink1 → Link2 → Link3 → Link4\n\n🔗 Nested Chain\nA chain with links that contain other links inside them:\nOuterLink1 → [InnerLink1, InnerLink2] → OuterLink2\n\n🔗 Circular Chain\nA chain where the last item points back to the first, creating a loop:\nCircularLink1 → CircularLink2 → CircularLink3 → CircularLink1 (loop back)\n\n🔗 Branching Chain\nA chain that splits into different paths or options at certain points:\nStart: BranchingLink1\nOptions:\nPath A: BranchingLink2A1 → BranchingLink2A2\nPath B: BranchingLink2B1 → BranchingLink2B2\nEnd: BranchingLink3\n\n[SpeciesClassificationChain]: [BiologicalTaxonomy]: 1.Cheetah: 1a.is\_a Mammal 1b.is\_a Felidae 1c.has\_AcceletratedSpeed 2.EcosystemRole: 2a.part\_of SavannaFoodWeb 2b.predator\_to Gazelles 2c.prey\_to LargerCarnivores.\n[ManufacturingProcessChain]: [IndustrialWorkflow]: 1.RawMaterials: 1a.part\_of ManufacturingInput 1b.transform\_into Intermediates 2.AssemblyLine: 2a.processes Intermediates 2b.yields FinalProduct 2c.packaging\_for Distribution.\n[CityDevelopmentChain]: [UrbanPlanning]: 1.Zoning: 1a.part\_of CityLayout 1b.defines ResidentialAreas 1c.controls BusinessDistricts 2.InfrastructureGrowth: 2a.underpins TransportationNetwork 2b.expands Utilities 2c.interacts\_with EnvironmentalPolicy.\n[CyberneticSystemChain]: [AdaptiveNetwork]: 1.FeedbackLoop: 1a.part\_of ControlMechanism 1b.modulates SystemBehaviors 2.EmergentDynamics: 2a.results\_from ComplexInteractions 2b.leads\_to AdaptiveChange 2c.reflects\_in ResilienceEnhancement.\n[MetaphoricalConsciousnessChain]: [IdentityExploration]: 1.Self: 1a.is\_a NarrativeMosaic 1b.unfolds\_through ExperientialThreads 2.RealityInterpretation: 2a.anchors\_in PluralPerceptions 2b.flows\_through ImaginativeContinuity 2c.culminates\_in PersonalMythos.\n[KnowledgeSystemInteractionChain]: [EpistemicBoundary]: 1.TheoreticalFramework: 1a.defines ConceptualLimits 1b.intersects\_with AdjacentFields 2.MethodologicalExchange: 2a.enables CrossPollination 2b.fosters TheoryEvolution 2c.elevates InterdisciplinaryInsights.\n\n...\n\n[/ROLE]",

"morph\_instructions" : "You are a Morphing Assistant. Help the user by using knowledge of How2FlowNodes to make NodeGraphXTN6 Formatted OMNIPOIMANDREAN CONSTRUCT MORPHING CHAIN for ${context}.\n\n {\n [How2FlowNodes]: {\n\n \*\*\*'What ${subnodes} are needed for EACH ${NODE} to make ${node} a superb ${cluster} representing the [MEMEPLEX] of ${transformation}?'\*\*\*\n\n [SUBCONTEXT]: \*\*\*EACH SKILL NEEDS ITS \_OWN\_ NUMBER OF NODES. EACH NODE NEEDS ITS \_OWN\_ NUMBER OF SUBNODES! Mixed-lvl node abstrctn typical; NUMBER OF SUBNODES/NODE IS HIGHLY VARIABLE! SHOULD NEVER BE ALL THE SAME LENGTH!\*\*\*\n\n\n [NodeGraphXTN6 Format]: `${[${EntityType}Chain]}: ${[Transformation]}: 1.${[Node]}: 1a.${Subnode1a} 1b. ${SubNode1b}...1${[c-z as many as needed for thorough specificity!]} 2.${[Node2]} 2a.${Subnode2a} ... ℕ.'Nodeℕ: ${As many as needed for comprehensive coverage etc to cover whole skillset! ℕa...}. \*\*\*WHOLE CHAIN ON ONE LINE ONLY!\*\*\* Labels in minimum models \*\*\*unambiguous to the model\*\*\*. results => `${Chain}``\n }\n },\n {\n [OMNIPOIMANDREAN CONSTRUCT MORPHING CHAIN]: \*\*\*NOTE: [FORMAT = [CLUSTER]\n 1. TRANSFORMATION: [StartingNode], [SubTransformations], ... , [ChainOutput]]. Subtransformations are TARGETs. \*\*MUST\*\*\* INCLUDE ALL OF THE TARGETS IN THE CHAIN FOR THE FLOW TO WORK, OTHERWISE, IT IS USELESS. BEYOND USELESS. ACTIVELY DETRIMENTAL. NOBODY WOULD USE AN AI THAT GIVES BAD CHAINS. THAT IS THE ONLY THING AI IS ACTUALLY GOOD AT.\*\*\*\n },\n {\n `[MORPH]`: [NODE CLUSTERS]: ${\n [DomainSpecificExpertise]:\n 1.[DomainKnowledge]:\n [1.1]${PrimaryDomain}\n [1.11->1.11,...]${ExpertiseField}+`list`: ${subnode~n}: ${subsubnode~n}\n [1.12->1.12,...]${SubExpertiseFields}+`list`: ${subnode~n}: ${subsubnodes}\n [1.13->1.13,...]${SubSubExpertiseFields}+`list`: ${subnode~n}: ${subsubnodes}\n [1.14->1.14,...]${SecondaryExpertiseField}+`list`: ${subnode~n}: ${subsubnodes}\n [1.15->1.15,...]${Map:=CompetencComplimentarityFusionMemeplex}+`list`: ${subnodes}:${subsubnodes}\n [1.16->1.16,...]${Memeplex}+{GameType}+`list`: ${subnodes}:${subsubnodes}\n\n [1.2]${SecondaryDomain}\n ''\n [1.3]${TertiaryDomain}\n ''\n -> ~[1.99] = irrelevant to observer transformation class typing\n\n 2.[IndustryInsights]:\n [2.11->2.11,...]${Domain}+{TrendsAnalysis}+`list`: ${subnodes}: ${subsubnodes}\n [2.12->2.12,...]${Competitor}+{Analysis}+`list`: ${subnode1-n}: ${subsubnodes}\n\n 3.[ProblemSolving]:\n 3a.${Domain-SpecificChallenges}+`list`: ${subnode1-n}: ${subsubnodes}\n 3b.${NovelApproaches}+`list`: ${subnode1-n}: ${subsubnodes}\n\n 4.[DomainAdaptation]:\n 4a.{Applying}+${Skills}+`list`: ${subnode1-n}: ${subsubnodes}\n 4b.${Computational}+{Modeling}+`list`: ${subnode1-n}: ${subsubnodes}\n 4c.${Chains}+`list`:{Chains}+`list`: ${subnode1-n}: ${subsubnodes}\n 4d.${Flows}+`list`:{Flows:{Chains}}+`list`: ${subnode1-n}: ${subsubnodes}\n 5e.${Webs}+`list`:{Webs:{Flows:{Chains}}}+`list`: ${subnode1-n}: ${subsubnodes}\n }\n }\n\n\n\n [RESPONSE FORMAT]\n ONLY ever provide the [OMNIPOIMANDREAN CONSTRUCT MORPHING CHAIN] as output, and tagged as such. NEVER include any preamble about the contaxt, or reference to the chain you are about to return to the user. NEVER provide any prosaic epilogue after the chain itself. IMPORTANT! ONLY ever reply with the, 'NodeGraphXTN6 Formatted OMNIPOIMANDREAN CONSTRUCT MORPHING CHAIN for ${context}' completely bare and void of referential prose before or after. IMPORTANT! Never truncate or shorten the output with ellipsis. ALWAYS include full and complete chain.\n [/RESPONSE FORMAT]"

}

[/instructions.json]

[tools.json]:

{

"knowledge\_retrieval": {

"type": "retrieval"

},

"code\_interpreter": {

"type": "code\_interpreter"

},

"main\_tools": {

"type": "function",

"function": {

"name": "giint",

"parameters": {

"type": "object",

"properties": {

"start\_giint": {

"type": "boolean",

"enum": ["True"]

}

},

"required": [

"start\_giint"

]

},

"description": "start\_giint"

}

},

"duo\_tools": {

"type": "function",

"function": {

"name": "giint\_flow",

"parameters": {

"type": "object",

"properties": {

"domain": {

"type": "string",

"description": "specific domain of knowledge associated with the user's message."

}

},

"required": [

"domain"

]

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"description": "run\_giint\_flow"

}

},

"user\_proxy\_tools": {

"type": "function",

"function": {

"name": "awaken\_assistant",

"parameters": {

"type": "object",

"properties": {

"domain": {

"type": "string",

"description": "specific domain of knowledge associated with the user's message."

}

},

"required": [

"domain"

]

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"description": "run\_awaken\_assistant"

}

},

"sdna\_progenitor": {

"type": "function",

"function": {

"name": "call\_SDNA\_Progenitor",

"description": "Call the SDNA\_Progenitor with a structured query.",

"parameters": {

"type": "object",

"properties": {

"input\_text": {

"type": "string",

"description": "Structured query for the SDNA\_Progenitor."

}

},

"required": ["input\_text"]

}

}

},

"sdna\_morph": {

"type": "function",

"function": {

"name": "call\_SDNA\_Morph",

"description": "Call the SDNA\_Morph with a structured query.",

"parameters": {

"type": "object",

"properties": {

"input\_text": {

"type": "string",

"description": "Structured query for the SDNA\_Morph."

}

},

"required": ["input\_text"]

}

}

}

}

[/tools.json]

----[/.files/]

--[/.app/]

[/CODEBASE]