Omni AI UML Class Diagram

ChatInterface
- user_input_field
- conversation_history_display
- file_upload_button

+ send_query()
+ display_response()

"1..1"

Dashboard
- pinned_items_list

+ display_items()
+ unpin_item()

AIAutomator
- intent_detector: IntentDetector
- agent_router: AgentRouter
- session_manager: SessionManager

+ handle_query(user_query, user_id)

"1..1"

"0..*"   "1..1"   "1..1"   "1..1"

VLMAgent
- local_llm_vision_client

+ execute(user_query, image_data)

DashboardItem
- id
- user_id
- type
- content
- timestamp

SessionManager
- conversations_db
- dashboard_db

+ get_conversation_history(user_id)
+ add_message(user_id, message)
+ save_dashboard_item(user_id, item)
+ get_dashboard_items(user_id)

ReportAgent
- report_generator

+ execute(user_query)
+ generate_pdf(report_content)

EmailAgent
- email_client

+ execute(user_query)
+ send_email(recipient, subject, body, attachments)

DataVizAgent
- llm_client
- python_interpreter

+ execute(user_query)
+ pin_to_dashboard(chart_data)

AgentRouter
- agent_map

+ route_query(intent, user_query)

NL2SQLAgent
- db_connector

+ execute(user_query)

IntentDetector
- local_llm_client

+ detect_intent(user_query)

BaseAgent
<>
- session_memory

+ execute(user_query)

"1..*"