Athenus-assistant

Athenus is a chatbot-like application designed to deliver intelligent and engaging conversations. It combines:

- An **Android frontend** for intuitive user interaction
- A **Django backend** for business logic and API integrations
- The power of **Ollama** and **Mistral LLMs** for advanced conversational capabilities

The system aims to redefine user interaction through seamless AI-powered conversations, providing not just responses but engaging and contextual dialogue.

Technical Description

- **Frontend (Android App)**:
  - Provides a clean, intuitive interface for real-time interaction
  - Implements modular UI components for scalability
  - Connects securely with the backend via REST APIs
- **Backend (Django Framework)**:
  - Manages core business logic and user sessions
  - Offers modular architecture for easy feature expansion
  - Provides scalable API endpoints for communication with the app
- **Conversational Engine (LLMs)**:
  - Powered by **Ollama** and **Mistral** large language models
  - Supports context-aware, human-like conversations
  - Optimized for efficiency and responsiveness
- **Key Features**:
  - Conversational AI with natural, fluid dialogue
  - Modular backend for extensibility
  - Cross-platform readiness with Android as the first release

Prototype

Athenus is currently under development with initial prototypes focused on Android and Django integration. Future iterations will expand to cross-platform support and advanced AI-driven features.

Project Details

This project is being developed as part of **DADM 2024-II** by:

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Getting Started

1. **Clone the Repository**:

```
git clone git@github.com:jdramosl/athenus.git
```

2. **Install Dependencies** (Python/Django and Android Studio)
3. **Run the Backend Server**
4. **Launch the Android App**

Research Paper

For detailed technical development, methodology, and results of the Athenus project, please refer to our comprehensive research paper:

Research Paper - Athenus Development and Results

This document includes:

- Detailed system architecture
- Implementation methodology
- Performance evaluation
- Experimental results
- Conclusions and future work