

LAWGPT

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Keywords:

Legal Chatbot, Artificial Intelligence, Natural Language Processing, Legal Tech, Document Generation.

Introduction:

1. The legal domain is complex, time-consuming, and often inaccessible to common individuals due to the use of technical language and the high cost of legal consultation. Many people struggle to understand legal procedures, rights, and documentation requirements.
2. To address these challenges, this project proposes LawGPT, an AI-powered legal assistant that leverages Natural Language Processing (NLP) and Large Language Models (LLMs) to provide simplified legal assistance. The system enables users to interact in natural language and receive accurate, easy-to-understand legal information.
3. LawGPT is designed to assist users in understanding laws, retrieving relevant legal sections, and generating legal documents such as notices, agreements, and summaries. By automating these tasks, the system aims to improve accessibility, reduce dependency on manual legal consultation, and promote legal awareness in society.

Objectives:

1. To develop an AI-powered legal assistant capable of answering legal queries in simple language.
2. To enable automated generation of legal documents such as notices, agreements, and complaints.
3. To provide quick retrieval of relevant legal acts, sections, and case laws.
4. To simplify complex legal information for better understanding by common users.
5. To create a scalable system that can support multiple users and future enhancements.

Methodology:

The development of LawGPT follows a structured approach:

1. **Requirement Analysis:** Identify user needs such as legal query answering, document drafting, and legal research.
2. **Data Collection:** Gather legal datasets including acts, sections, case laws, and document templates.
3. **Preprocessing:** Clean and structure the collected data for efficient processing and retrieval.
4. **Model Development:** Integrate a GPT-based language model and fine-tune it using legal data to improve domain-specific accuracy.
5. **Natural Language Processing:** Implement techniques such as intent recognition, text summarization, and keyword extraction.
6. **System Integration:** Develop backend APIs and frontend interface for user interaction.
7. **Testing and Validation:** Evaluate system performance based on accuracy, usability, and response relevance.

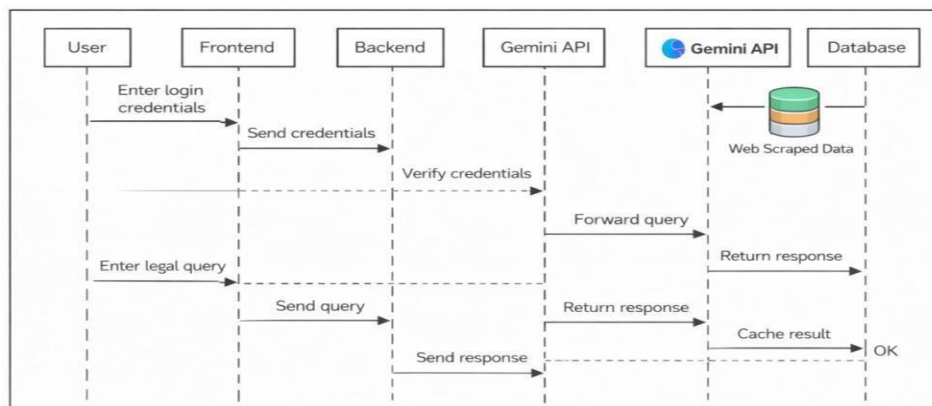


Figure 1: Sequence Diagram

Result and Conclusion:

The proposed system is expected to successfully provide legal assistance through an interactive AI interface. It will allow users to obtain legal information quickly, generate documents efficiently, and understand complex legal concepts in a simplified manner.

The project demonstrates how AI can be effectively applied in the legal domain to reduce time, cost, and effort. LawGPT can serve as a valuable tool for students, professionals, and the general public, improving access to legal knowledge and services.

References:

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Future Scope:

The future scope of this project includes:

1. Integration of voice-based interaction for better accessibility.
2. Support for regional languages to cater to a wider audience.
3. Inclusion of real-time legal updates and case tracking features.
4. Deployment as a mobile application for easy access.
5. Integration with legal professionals for advanced consultation.