Intelligent Excuse Generator

With Emergency Alerts, Voice Output, PDF Proofs, Auto Scheduling, and Smart Ranking

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Project Overview

The **Intelligent Excuse Generator** is a backend-driven AI solution built with **FastAPI** that intelligently creates contextual and language-specific excuses for real-life situations. It incorporates advanced features such as:

- Real-time **emergency alert triggering**
- **Voice output** and **PDF generation**
- **Multi-language** support and translation
- Automated **scheduling** of excuses
- A **smart ranking system** for excuse prioritization

Technologies Used

- **Python 3.12**
- **FastAPI** – API framework
- **Uvicorn** – ASGI server
- **gTTS** – Google Text-to-Speech
- **ReportLab** – For PDF proof generation
- **Ollama + LLaMA2** – Language model integration
- **Langdetect & Googletrans** – Language detection and translation
- **APScheduler** – Job scheduling
- **Custom Ranking Engine**

Project Structure

```
intelligent_excuse_backend/ app/
├── main.py          # FastAPI entry point
├── generator.py     # Excuse generation logic
├── models.py        # Pydantic models
├── storage.py       # Local storage and retrieval
├── proof.py         # PDF generation logic
├── voice.py         # Text-to-speech generation
├── emergency.py     # Emergency trigger handling
├── apology.py       # Apology generator
├── scheduler.py     # Job scheduling
└── ranker.py        # Excuse ranking logic
├── audio/
├── fonts/
├── proofs/
├── excuses.json
├── requirements.txt
└── README.md
```

Key Features

1. **AI-Powered Excuse Generation**
2. **Automated Scheduling via APScheduler**
3. **Emergency Alert System** (Text or Voice)
4. **Text-to-Speech Output with Language Translation**
5. **Professional PDF Proof Creation**
6. **Smart Ranking of Excuses Based on Context**
7. **History Logging of Generated Excuses**

Sample API Requests

Using Postman to Test the API

Follow these steps to interact with your backend using Postman:

Step 1: Download Postman App fron here-->https://www.postman.com/downloads/

Step 2: Make Requests in Postman

--> After Login Click on my workplace --> Then go to new --> follow below steps for diffrent scenario

1. Generate an Excuse

Method: POST

URL: http://127.0.0.1:8000/generate_excuse/ (http://127.0.0.1:8000/generate_excuse/)

Body → raw → JSON

```
{
  "scenario": "I missed my exam due to health issues",
  "urgency": "high",
  "language": "en"
}
```

```
 Response:
{
  "excuse": "I was sick and couldn’t make it to the exam.",
  "proof_file": "proofs/proof_2025-05-12_16-10-23.pdf",
  "audio_file": "audio/excuse_2025-05-12_16-10-23.mp3"
}
```

2. Trigger Emergency

Method: POST

URL: http://127.0.0.1:8000/trigger-emergency/ (http://127.0.0.1:8000/trigger-emergency/)

Body → raw → JSON

```
{
  "method": "text",
  "description": "My leg was injured from falling"
}
```

How to Run

```
Create a virtual environment
python -m venv venv
source venv/bin/activate  # Windows: venv\Scripts\activate
```

```
Install dependencies
pip install -r requirements.txt
```

download Ollama from here-->https://ollama.com/download/windows

```
Start Ollama with LLaMA2
ollama run llama2
```

```
Run FastAPI server
uvicorn app.main:app --reload

The API will be running at:
 http://127.0.0.1:8000 --reload
```

Access API Docs

Open your browser and go to: http://127.0.0.1:8000/docs (http://127.0.0.1:8000/docs)

Final Note

This project simulates intelligent excuse automation with real-world applicability. From contextual excuse generation to automated scheduling and emergency responses, it showcases a robust backend AI system that blends functionality with innovation.