Project Drishti - Al Event Safety System

Real-time crowd monitoring and safety management system for large events.

Project Structure

```
- README.md
backend
  — agent-backend
      — Dockerfile
       — conversation_api.py
       — conversation_script.py
           — llm_logger.py
         └─ trigger_manager.py
       — deploy.txt
       — gemini_helpers.py
        - requirements.txt
      └─ tools.py

    simulator-backend

      — Dockerfile
       — deploy.txt
        requirements.txt
     ∟ server.py
 frontend
   agent
       — README.md
        - frontend
          — chat-app.js
           - chat-styles.css
           — chat.html
          — config.js
          - deploy.sh
    index.html
    - simulator
       — README.md
        frontend
         ├── app.js
├── config.js
├── firebase.json
            index.html
           — styles.css
 requirements.txt
```

Quick Start

1. Simulator Service

```
cd simulator/backend
pip install -r requirements.txt
python server.py
# Open simulator/frontend/index.html in browser
```

2. Agent Service

```
cd agent/backend
pip install -r requirements.txt
export GEMINI_API_KEY="your-api-key"
python conversation_api.py
# Open agent/frontend/chat.html in browser
```

Key Features

- Real-time Monitoring Live venue state with 2-second updates
- Event Simulation Trigger emergencies (Fire, Medical, Security, etc.)
- Al Response Proactive agent with tool-based actions
- Gradual Evacuation Realistic 10-second evacuation simulation
- Auto-resolution Alerts resolve based on actions taken

Services Communication

- Simulator exposes REST API on port 3001
- Agent connects to simulator API for state/actions
- Frontend dashboards poll their respective backends