**Implementation Documentation**

**Architecture Overview**

The application consists of two main classes:

1. **SolarAssistant**: Core backend class handling API interactions
   * Manages API authentication and requests
   * Processes queries based on user expertise level
   * Implements error handling and logging
2. **SolarAssistantUI**: Frontend interface using Gradio
   * Creates an intuitive web interface
   * Handles user input and display of responses
   * Provides example queries for different expertise levels

**Key Features**

* Expertise-based responses (general, technical, expert)
* Asynchronous API handling for better performance
* Comprehensive error logging
* User-friendly interface with example queries
* Configurable system prompts
* Rate limiting and timeout handling

**Technical Specifications**

* API: OpenRouter AI
* Model: mistralai/mistral-7b-instruct
* Max response tokens: 500
* Temperature: 0.7
* Timeout: 30 seconds