

Yolanda AI Assistant - API Documentation

Purpose

The Yolanda AI Assistant API provides a robust interface for natural language processing and intelligent response generation. It enables client applications to interact with the AI system, process queries, and receive context-aware responses while collecting user feedback for continuous improvement.

Actions

1. Query Processing

POST /query

- Processes user queries and generates intelligent responses
- Handles context management and response refinement
- Returns structured response with action plans

2. Feedback Collection

POST /feedback

- Collects user satisfaction data
- Processes feedback for system improvement
- Updates A/B testing metrics

3. Analytics

GET /analytics

- Provides usage statistics and patterns
- Returns A/B testing results
- Generates performance metrics

Data

Input Data Structures

1. Query Request

```
{ "question": "string", "client_id": "integer" }
```

2. Feedback Request

```
{ "client_id": "integer", "is_satisfactory": "boolean" }
```

Output Data Structures

1. Query Response

```
{ "response": "string", "action_plan": "string", "confidence_score":  
"float" }
```

2. Analytics Response

```
{ "satisfaction_rate": "float", "usage_metrics": "object",  
"performance_data": "object" }
```

Processing

Query Processing Pipeline

1. Input Processing

- Request validation
- Context extraction
- Intent recognition

2. Response Generation

- NLP model processing
- Context-aware response generation
- Response refinement

3. Output Formatting

- Response structuring

- Action plan generation
- Confidence scoring

Error Handling

- Structured error responses
- Error logging and tracking
- Fallback mechanisms

Rate Limiting

- Request throttling
- Usage quotas
- Client-specific limits