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API Documentation - Bharat Vistaar AI Voice API

Overview

Bharat Vistaar AI Voice API is an AI-powered voice assistant API that provides information about government agricultural schemes, helps check scheme status, and assists in raising grievances.

Base URL: <https://dev-vistaar.da.gov.in> **API Prefix:** `/api`

Endpoints

Voice Chat Endpoint

Chat with Voice Assistant

GET /api/voice/

Streams AI-generated responses for queries related to government agricultural schemes, scheme status checks, and grievance management. Supports conversation context through session management.

Query Parameters:

Parameter	Type	Required	Default	Description
query	string	Yes	-	The user's chat query/question
session_id	string	No	Auto-generated	Session ID for maintaining conversation context
source_lang	string	No	hi	Source language code (hi, en)
target_lang	string	No	hi	Target language code for response (hi, en)
user_id	string	No	anonymous	User identifier

Response:

Streaming response with `text/event-stream` media type. The response is streamed in real-time as the AI generates the answer.

Example Request:

```
curl --location 'https://dev-vistaar.da.gov.in/api/voice/?
session_id=550e8400-e29b-41d4-a716-
446655440004&query=what%20is%20kcc&source_lang=en&target_lang=en'
```

Example Request (Hindi):

```
curl --location 'https://dev-vistaar.da.gov.in/api/voice/?
session_id=550e8400-e29b-41d4-a716-446655440004&query=PM-
KISAN%20scheme%20kya%20hai&source_lang=hi&target_lang=hi'
```

Example Request (Without Session ID):

```
curl --location 'https://dev-vistaar.da.gov.in/api/voice/?
query=what%20is%20PM-KISAN%20scheme&source_lang=en&target_lang=en'
```

Example Response (Streaming):

Streaming response with Server-Sent Events format containing AI-generated response chunks.

Status Codes:

- **200 OK** - Request processed successfully
- **400 Bad Request** - Invalid request parameters
- **500 Internal Server Error** - Server error

Features:

- **Streaming Responses:** Real-time streaming of AI-generated responses
- **Multi-language Support:** Supports Hindi (hi) and English (en)
- **Conversation History:** Automatically maintains and uses conversation history

Use Cases

The API supports the following use cases through the voice assistant:

Government Schemes

The system provides information about **8 government agricultural schemes**:

1. **KCC** - Kisan Credit Card
2. **PM-KISAN** - Pradhan Mantri Kisan Samman Nidhi

3. **PMFBY** - Pradhan Mantri Fasal Bima Yojana
4. **SHC** - Soil Health Card
5. **PMKSY** - Pradhan Mantri Krishi Sinchayee Yojana
6. **SATHI** - Seed Authentication, Traceability & Holistic Inventory
7. **PMASHA** - Pradhan Mantri Annadata Aay Sanrakshan Abhiyan
8. **AIF** - Agriculture Infrastructure Fund

Use Case Examples:

1. Get Scheme Information

- Query: "What is PM-KISAN scheme?"
- Query: "Tell me about KCC benefits"
- Query: "What are the eligibility criteria for PMFBY?"

2. General Scheme Inquiry

- Query: "What government schemes are available for farmers?"
- Query: "List all agricultural schemes"

Scheme Status Checks

The API supports status checks for specific schemes:

1. PM-KISAN Status Check

Two-step process:

Step 1: Initiate Status Check

- Requires: Registration number (Aadhaar number or mobile number)
- Returns: Transaction ID and OTP sent to registered mobile

Step 2: Verify with OTP

- Requires: Transaction ID and OTP
- Returns: PM-KISAN status details including payment history

Use Case Examples:

- Query: "Check my PM-KISAN status"

- Query: "What is my PM-KISAN payment status?"
- Query: "When will I receive my next PM-KISAN payment?"

2. PMFBY Status Check

- Requires: registered phone number
- Returns: PMFBY insurance status and policy details

Use Case Examples:

- Query: "Check my PMFBY insurance status"
- Query: "What is my crop insurance status?"

3. SHC (Soil Health Card) Status Check

Single-step process:

- Requires: phone number registered with the Soil Health Card
- Returns: Soil Health Card status and details

Use Case Examples:

- Query: "Check my Soil Health Card status"
- Query: "What is my SHC status?"
- Query: "When will I receive my Soil Health Card?"

Grievance Management

The API supports grievance submission and status tracking:

1. Submit Grievance

Process:

- Requires: Identity number (Aadhaar/registration no), grievance description, grievance type
- Returns: Grievance reference number and confirmation

Supported Grievance Types:

- Payment issues

- Registration problems
- Scheme-related complaints
- Application issues

Use Case Examples:

- Query: "I want to file a complaint about PM-KISAN payment"
- Query: "Submit a grievance about my registration"
- Query: "I have an issue with my scheme application"

2. Check Grievance Status

Process:

- Requires: Aadhaar/registration no
- Returns: List of grievances with their current status

Use Case Examples:

- Query: "Check my grievance status"
- Query: "What is the status of my complaint?"
- Query: "Show me all my grievances"

Follow-up Questions

- The system maintains conversation context, allowing natural follow-up questions
- Example: After asking about PM-KISAN, user can ask "How do I apply?" without repeating context

Request/Response Models

ChatRequest

Request model containing the following fields:

Field Descriptions:

- **query**: The user's question or message (required)

- **session_id**: Unique identifier for maintaining conversation context. If not provided, a new UUID is generated (optional)
- **source_lang**: Language code of the input query (**hi**, **en**) (default: 'hi')
- **target_lang**: Language code for the response (**hi**, **en**) (default: 'hi')
- **user_id**: Identifier for the user making the request (default: 'anonymous')

Response Format

The voice endpoint returns a streaming response with Server-Sent Events (SSE) format. Each data line contains a chunk of the AI-generated response.

Error Handling

Error Response Format

Error responses include status, message, error_code, and optional details fields.

Common Error Codes

- **400 Bad Request** - Invalid request parameters
 - **401 Unauthorized** - Missing or invalid authentication token
 - **503 Service Unavailable** - Service dependencies unavailable (e.g., Redis cache)
 - **500 Internal Server Error** - Unexpected server error
-

Language Support

The API supports two languages:

- **Hindi (hi)** - Hindi language support
- **English (en)** - English language support

Users can query in one language and receive responses in another by setting different `source_lang` and `target_lang` parameters.