

# RestAPI With OpenAI Agents

## Base URL:

The API is available at the following address:

- **Local:** `http://127.0.0.1:3000`
- **Local Network:** `http://<your-ip>:3000`

## 1. Create an Agent

**Endpoint:** POST /agents

This endpoint allows you to create a new agent with a name and personality.

### Request Body:

```
{  
  
  "name": "HelperBot",    // Name of the agent  
  
  "personality": "friendly" // Personality of the agent (optional, default is "neutral")  
  
}
```

### Response:

```
{  
  
  "message": "Agent 'HelperBot' created successfully."  
  
}
```

**Status 400:** When the agent name is not provided or if the name already exists.

```
{  
  
  "error": "Agent name is required."  
  
}
```

---

## 2. Chat with an Agent

**Endpoint:** POST /agents/<name>/chat

This endpoint allows the user to send a message to the agent and receive a response based on the OpenAI model.

**Request Body:**

```
{  
  
  "message": "Hello, how are you?"  
  
}
```

**Response:**

```
{  
  
  "reply": "Hello! I am a friendly assistant. How can I help you today?"  
  
}
```

**Status 400:** When the user message is not provided.

```
{  
  
  "error": "Message is required."  
  
}
```

**Status 404:** When the agent with the specified name does not exist.

```
{  
  
  "error": "Agent 'HelperBot' does not exist."  
  
}
```

---

### 3. List All Agents

**Endpoint:** GET /agents

This endpoint allows you to list all created agents.

**Response:**

**Status 200:** Returns a list of agents

```
[
```

```
"HelperBot",  
"AssistantBot"  
]
```

---

## 4. Delete an Agent

**Endpoint:** DELETE /agents/<name>

This endpoint allows you to delete an agent by name.

**Response:**

**Status 200:** When the agent is successfully deleted.

```
{  
  
  "message": "Agent 'HelperBot' deleted successfully."  
  
}
```

**Status 404:** When the agent with the specified name does not exist.

```
{  
  
  "error": "Agent 'HelperBot' does not exist."  
  
}
```

---

## Example Full Flow:

### Create an Agent:

POST /agents

Body:

```
{  
  
  "name": "HelperBot",  
  
  "personality": "friendly"  
  
}
```

### Send a Message to the Agent:

POST /agents/HelperBot/chat

Body:

```
{  
  "message": "Hello, how are you?"  
}
```

**Get answer from agent:**

```
{  
  "reply": "Hello! I am a friendly assistant. How can I help you today?"  
}
```

**List All Agents:**

GET /agents

**Delete an Agent:**

DELETE /agents/HelperBot

---

**by Lucas Cabral**