

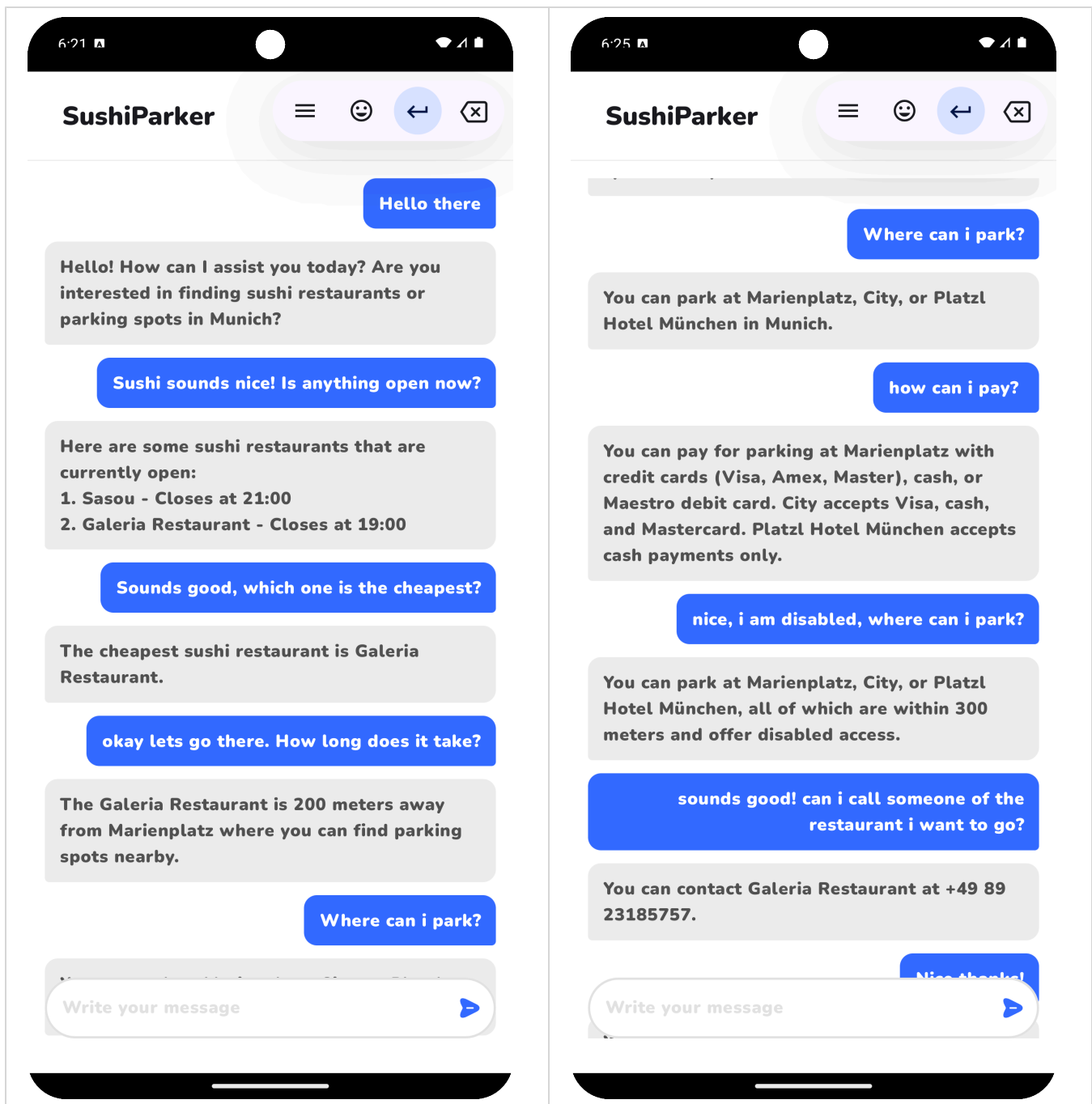


Munich Sushi & Parking Assistant

An AI-powered assistant that helps users find sushi restaurants and parking spots in Munich. The assistant uses GPT-3.5-turbo to understand user queries and provide relevant information from a mock database.

Android Jetpack Compose App

Inspired by [HariAgus/TokenApp](#)



Setup

1. Clone the repository
2. Create a virtual environment and activate it:

```
python -m venv .venv
source .venv/bin/activate # Linux/Mac
.venv\Scripts\activate    # Windows
```

3. Install requirements

```
pip install -r requirements.txt
```

4. Install the project in editable mode:

```
pip install -e .
```

5. Create a `.env` file in the root directory with your OpenAI API key:

```
OPENAI_API_KEY=your_api_key_here
```

Running the Project

There are three ways to interact with the assistant:

1. Jupyter Notebook

Explore the detailed implementation and test different scenarios:

```
application.ipynb
```

2. Terminal Chat

Start an interactive chat session in the terminal:

```
python src/main_terminal.py
```

3. FastAPI Endpoint

Run a local API server:

```
python src/main_api.py
```

The API will be available at `http://localhost:8000`

- Swagger UI: `http://localhost:8000/docs`

Features

- Dynamic function calling with instructor
- Checks users intend and selects response model
- Support for both sushi restaurant and parking queries (can switch in one session)
- Information about:
 - Restaurant locations, hours, and reviews
 - Parking spot availability and pricing
 - Distance from current location
 - Payment methods

Project Structure

- `application.ipynb` : Detailed walkthrough of the assistant's functionality
- `src/main_terminal.py` : Terminal-based chat interface
- `src/main_api.py` : FastAPI server implementation
- `src/services/` : Core business logic and data handling
- `src/models/` : Pydantic models for type safety
- `src/data/` : Mock database JSON files