# Simple Chatbot

This repository contains a Jupyter Notebook (`adejumo\_simple\_chatbot.ipynb`) that demonstrates a basic rule-based chatbot implemented purely with Python's built-in features. The notebook is designed for learners who want to understand how to build a simple conversational agent without external libraries.

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## 🧐 About

The `adejumo\_simple\_chatbot.ipynb` notebook guides you through creating a minimalistic chatbot that:

- Uses a dictionary of predefined responses keyed by user inputs.

- Processes user input in a loop until the user says "bye".

- Provides default feedback when the input is not recognized.

This project is ideal for beginners exploring natural language interactions and basic control flow in Python.

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## ✨ Features

- \*\*Predefined Responses\*\*: A dictionary mapping specific inputs (e.g., "hi", "hello", "how are you") to responses.

- \*\*Continuous Interaction\*\*: An infinite loop that prompts the user, handles conversation, and exits gracefully on a "bye" input.

- \*\*Default Handling\*\*: Replies with an apology when the user's input isn't in the predefined set.

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## 🔧 Requirements

- \*\*Python 3.6+\*\* (no additional packages required)

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## 🚀 Installation

1. \*\*Clone the repository\*\*

```bash

git clone https://github.com/<your-username>/simple-chatbot.git

cd simple-chatbot

```

2. \*\*Ensure Python 3 is installed\*\*

```bash

python3 --version

```

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## 🎯 Usage

1. Open a terminal or command prompt.

2. Launch Jupyter Notebook:

```bash

jupyter notebook

```

3. In the browser, open the file `adejumo\_simple\_chatbot.ipynb`.

4. Run each cell in order to start the chatbot.

5. When prompted, type inputs like "hi", "what is python", or "bye" to interact.

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## 🗂 Notebook Structure

1. \*\*Predefined Responses\*\*: Creation of a Python dictionary storing question–answer pairs.

2. \*\*Interaction Loop\*\*: A `while True` loop that:

- Reads user input.

- Looks up a response in the dictionary.

- Prints the response or a default message.

- Breaks on "bye".

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## 🤝 Contributing

Contributions, issues, and feature requests are welcome! Feel free to:

1. Fork the repository.

2. Create a branch: `git checkout -b feature/YourFeature`

3. Commit your changes: `git commit -m "Add some feature"`

4. Push to the branch: `git push origin feature/YourFeature`

5. Open a Pull Request.