

# ConverseAPI

Converse with any API





# Weptun & iPraktikum



# Weptun & iPraktikum



Summer 2009

Dr. Maison & Partner  
at 2nd iPraktikum



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Winter 2009

Founding of Weptun by  
iPhone Praktikum team



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Winter 2022

Return to iPraktikum  
with Unicorn



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**IQVOLT**

Winter 2023  
IQvolt Project



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Winter 2023

IQvolt Project

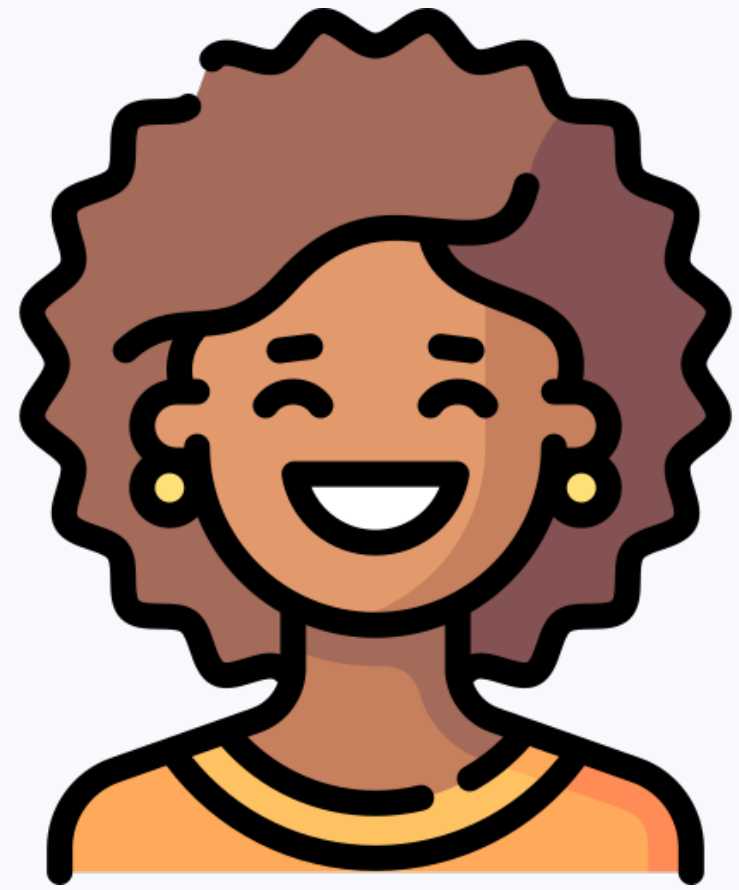




# Status Quo



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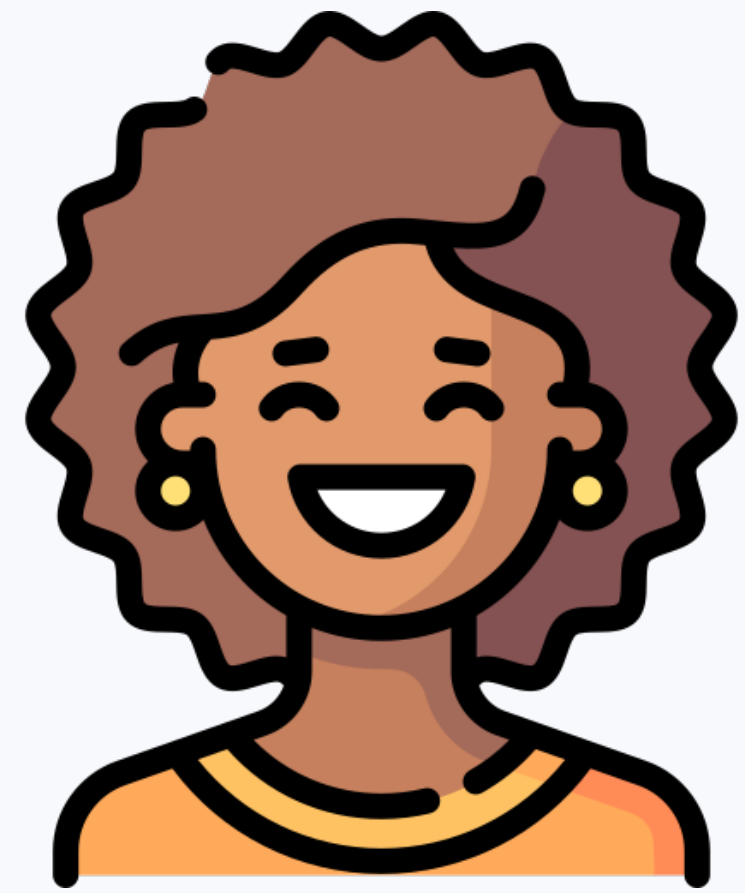
CEO

Lisa

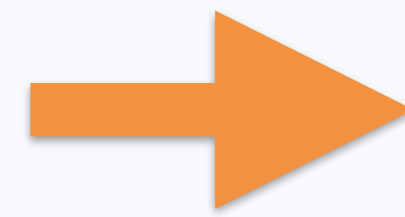
Fancy Corp.



# Status Quo



CEO  
**Lisa**  
Fancy Corp.



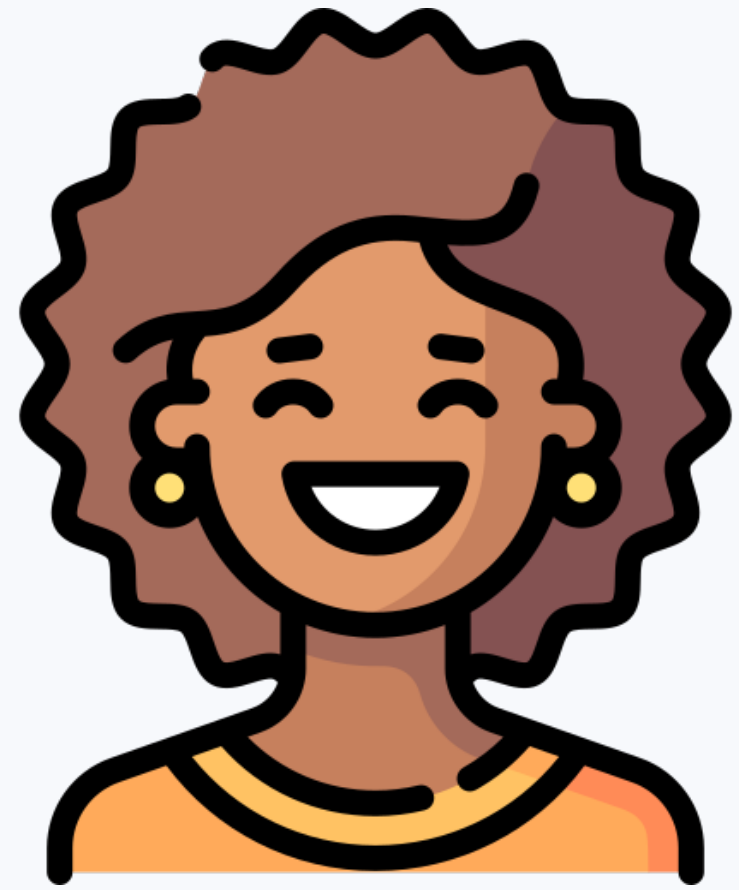
Contracts



Weptun GmbH



# Status Quo



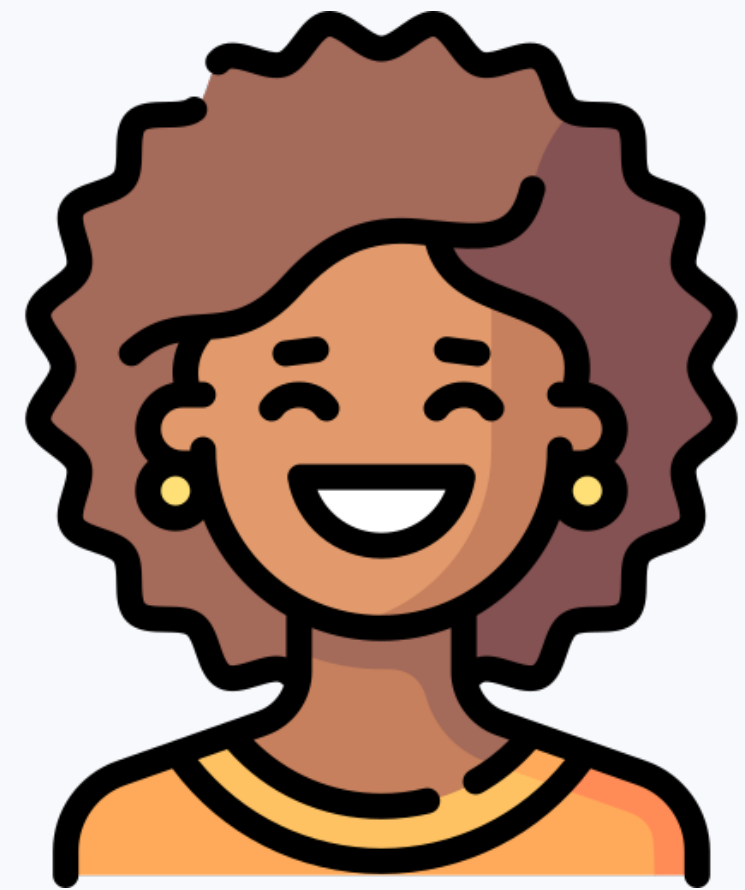
CEO  
**Lisa**  
Fancy Corp.



Developer  
**Mark**  
Weptun GmbH



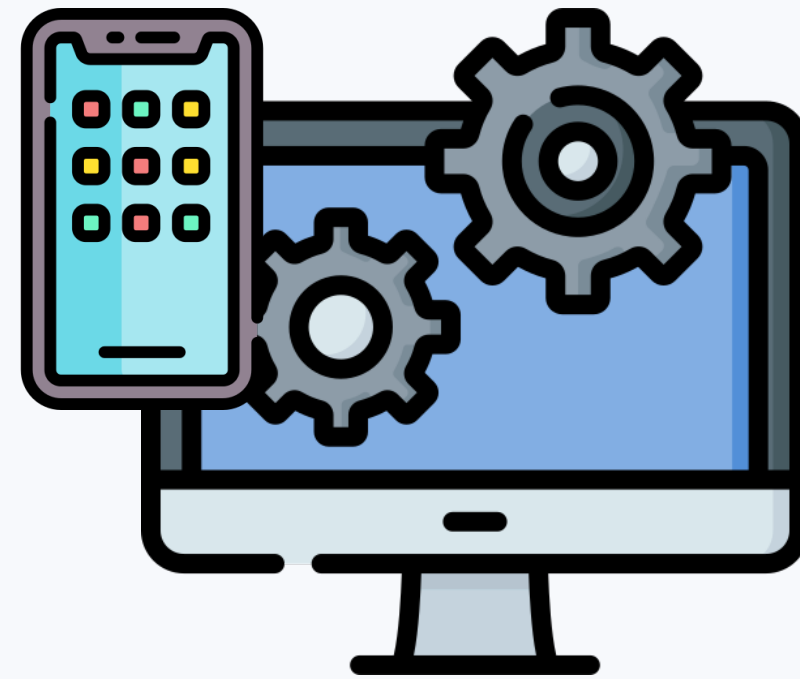
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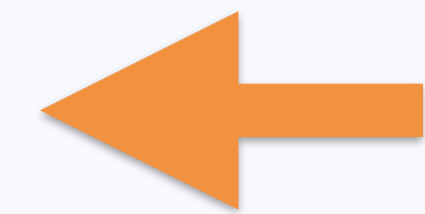
CEO

Lisa

Fancy Corp.



FancySystem



Develops



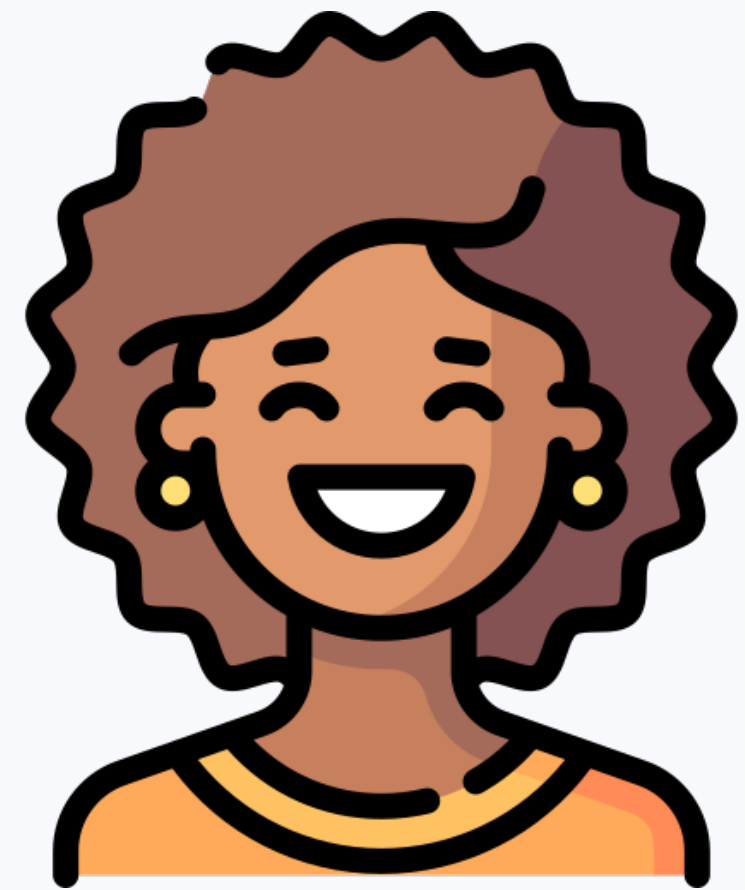
Developer

Mark

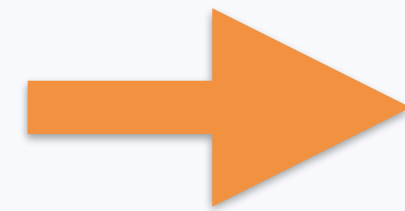
Weptun GmbH



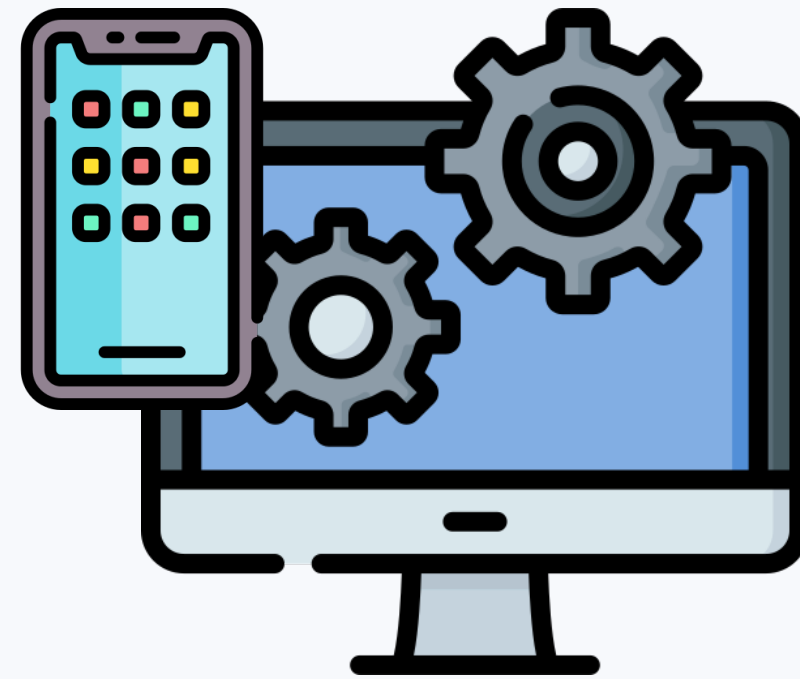
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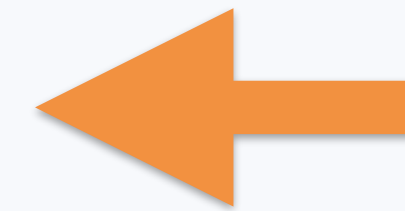
CEO  
**Lisa**  
Fancy Corp.



Sells



FancySystem



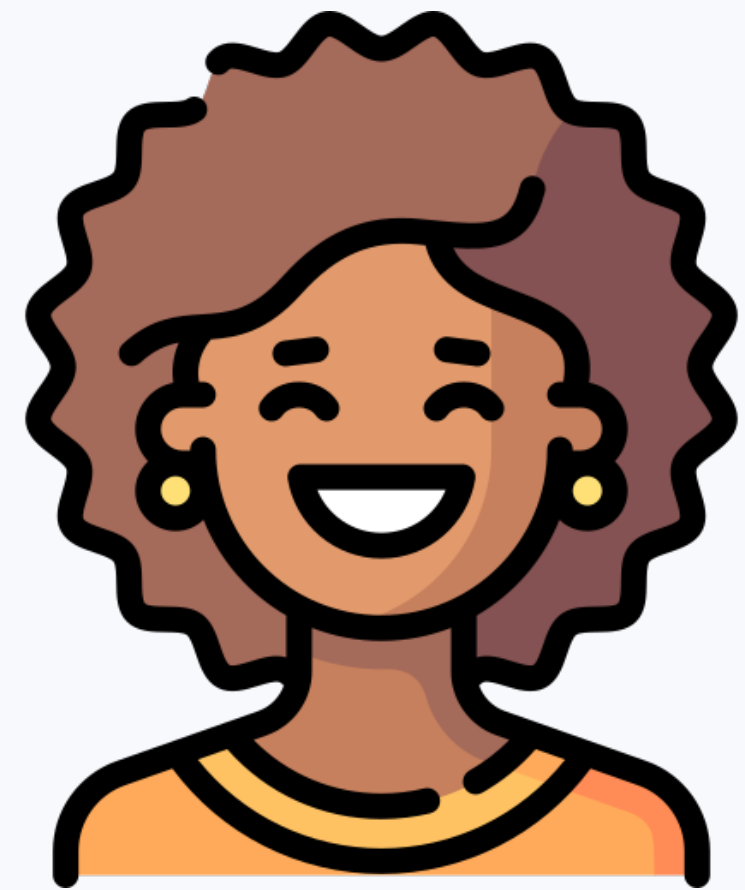
Develops



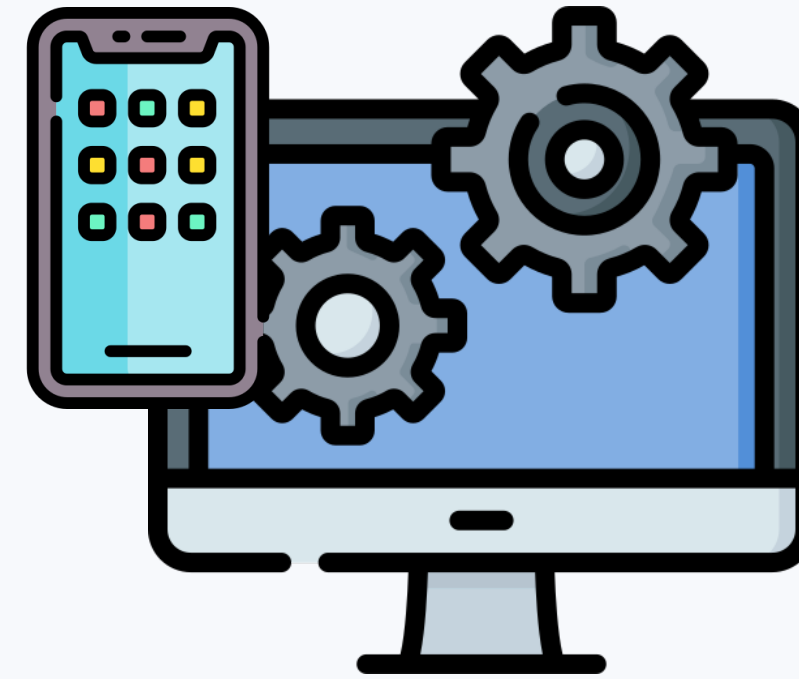
Developer  
**Mark**  
Weptun GmbH



# Status Quo



CEO  
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FancySystem



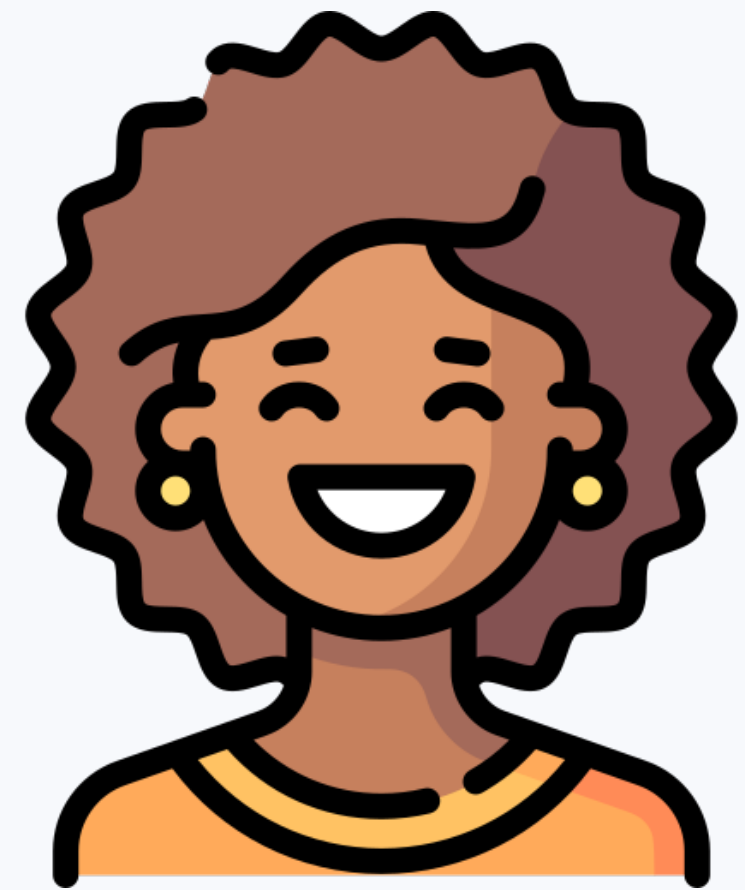
Developer  
**Mark**  
Weptun GmbH



OpenAPI  
Documentation



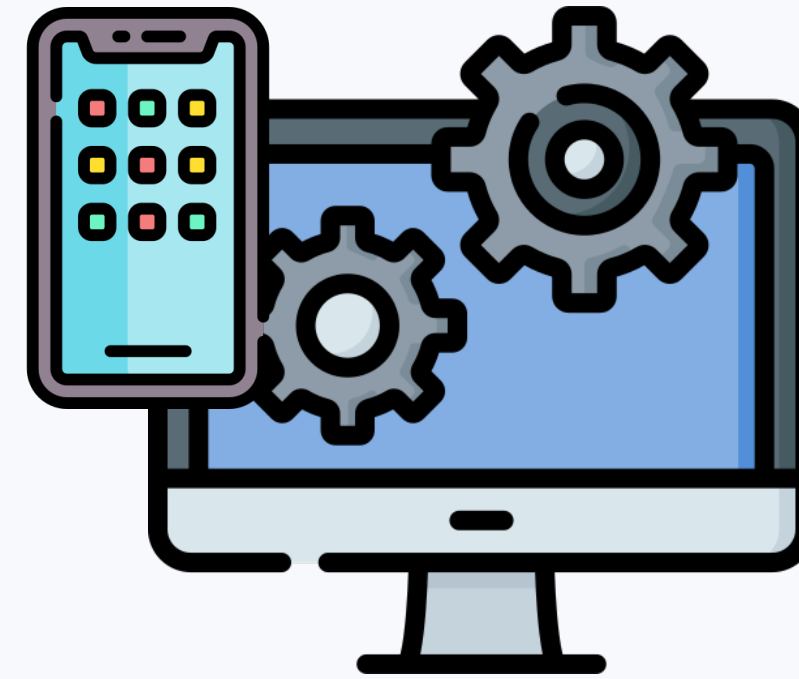
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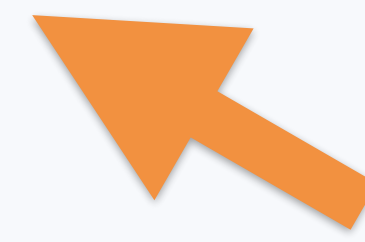
CEO  
**Lisa**  
Fancy Corp.



Sells



FancySystem



Develops



Developer  
**Mark**  
Weptun GmbH



OpenAPI  
Documentation

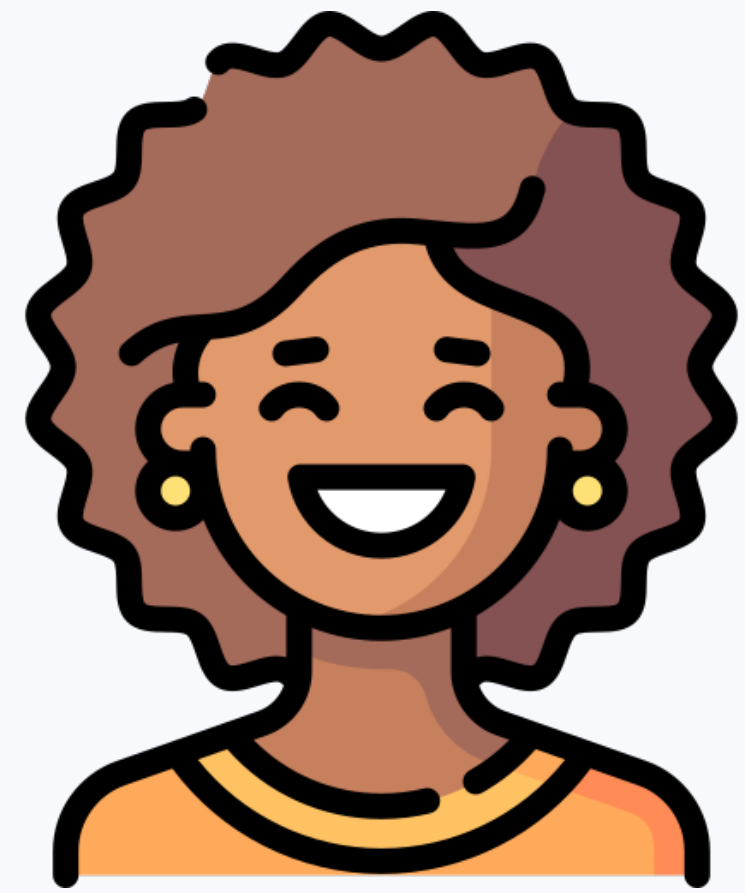


Documents





# Lisa's Concerns



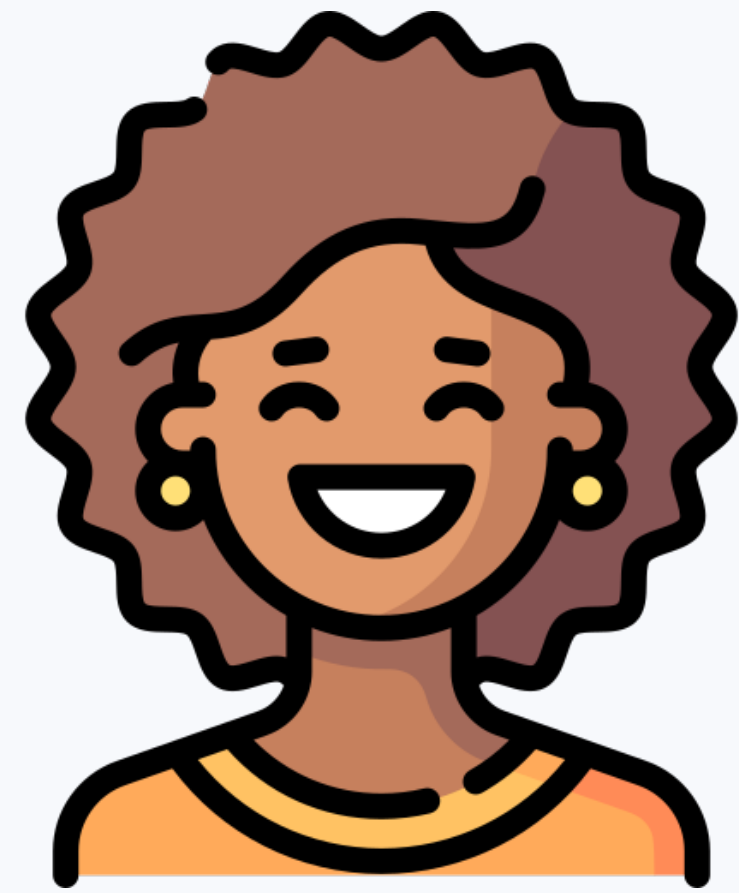
CEO

Lisa

Fancy Corp.



# Lisa's Concerns



CEO

Lisa

Fancy Corp.

- Wants to integrate an LLM AI assistant in FancySystem
- Curious but insecure if AI will provide a real benefit
- Limited willingness to invest much money



# Mark's Concerns



Developer  
**Mark**  
Weptun GmbH



# Mark's Concerns

- FancySystem's API is very extensive
- Has never engineered prompts and functions for LLMs
- Sceptical of LLM agent's testability and maintainability
- Already very busy developing missing API test cases



Developer  
**Mark**  
Weptun GmbH



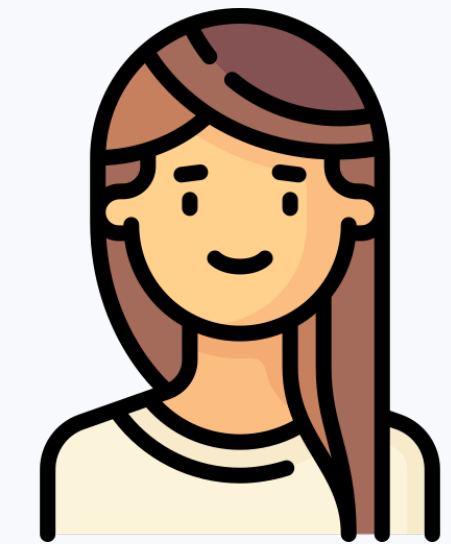


# ConverseAPI

Converse with any API



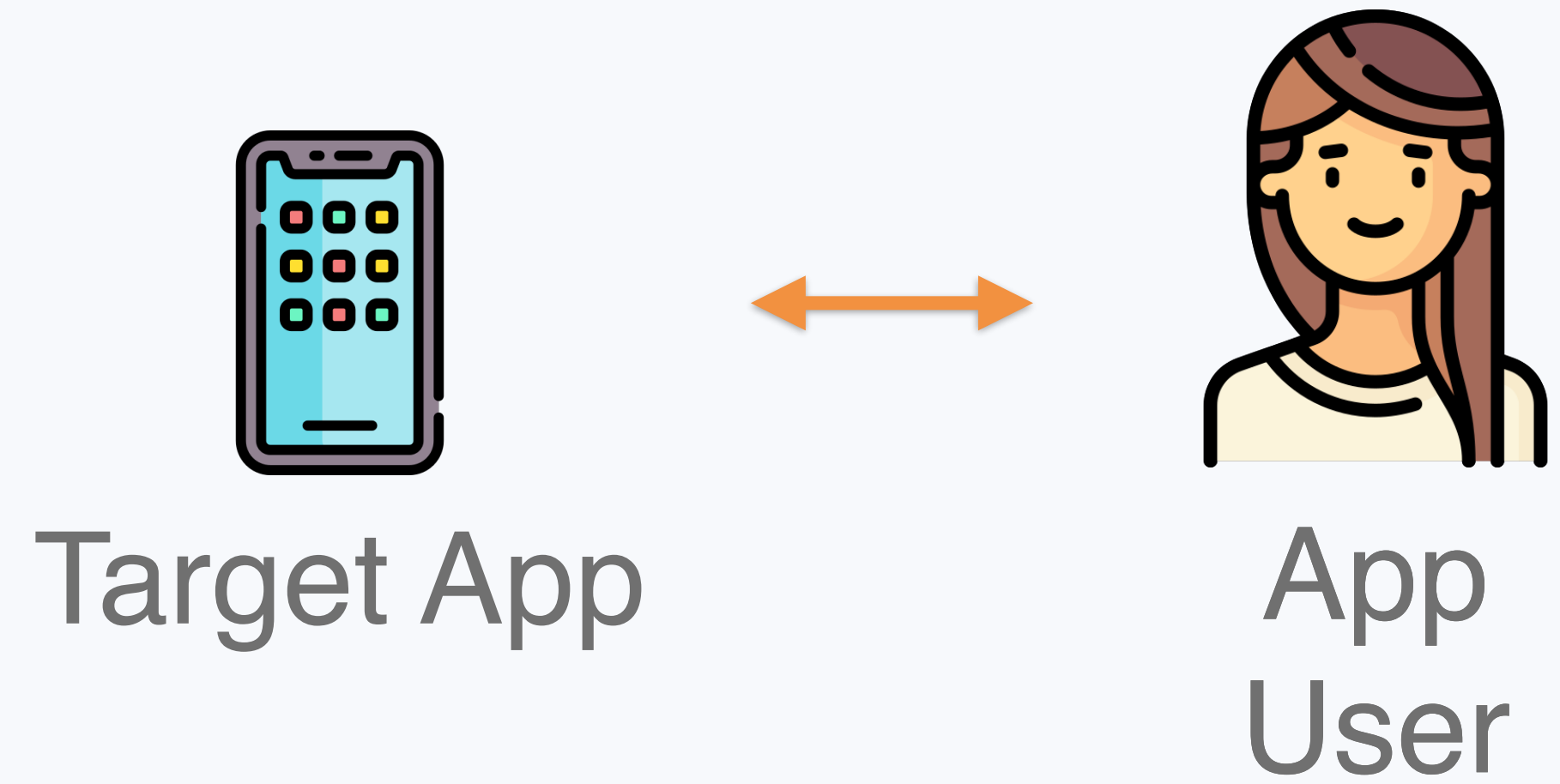
# Our Vision - System Overview



App  
User

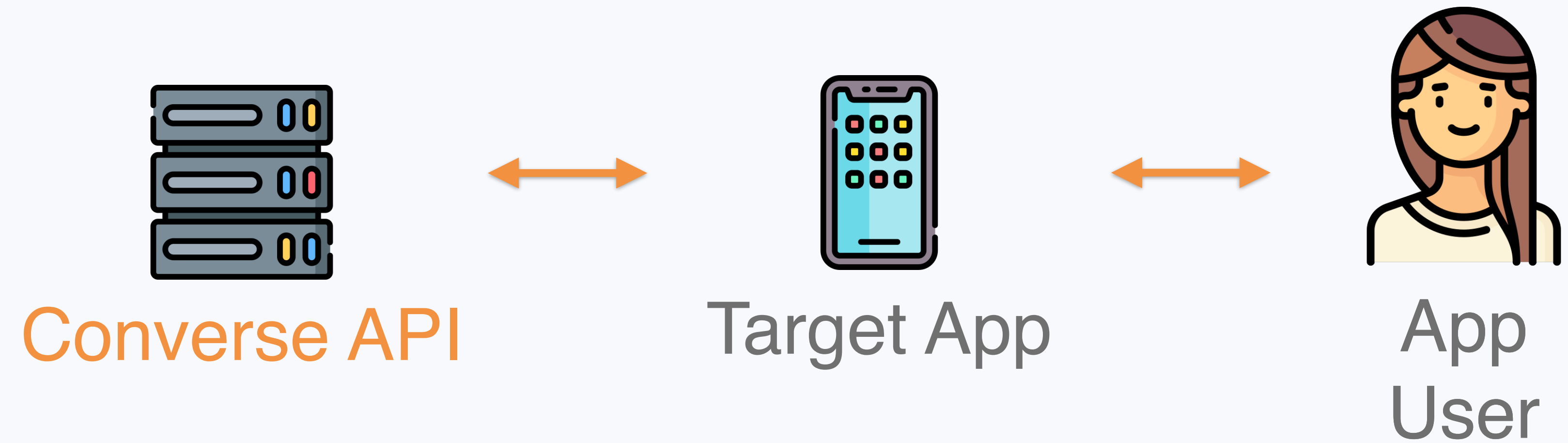


# Our Vision - System Overview

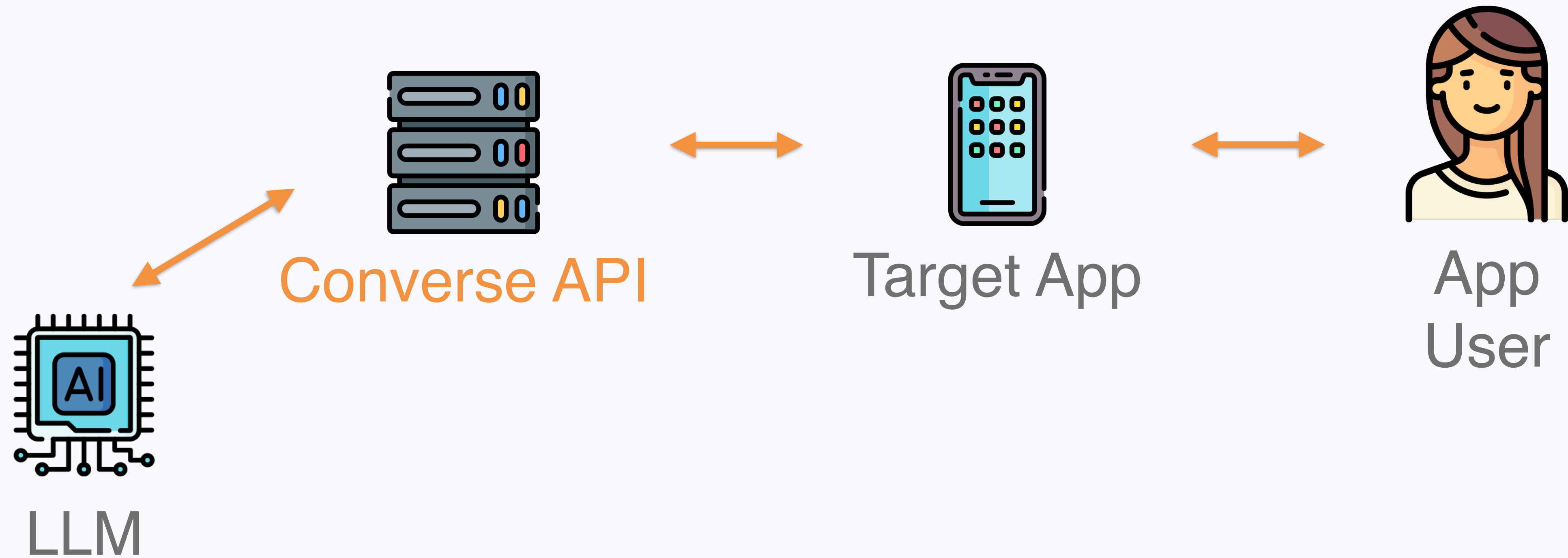




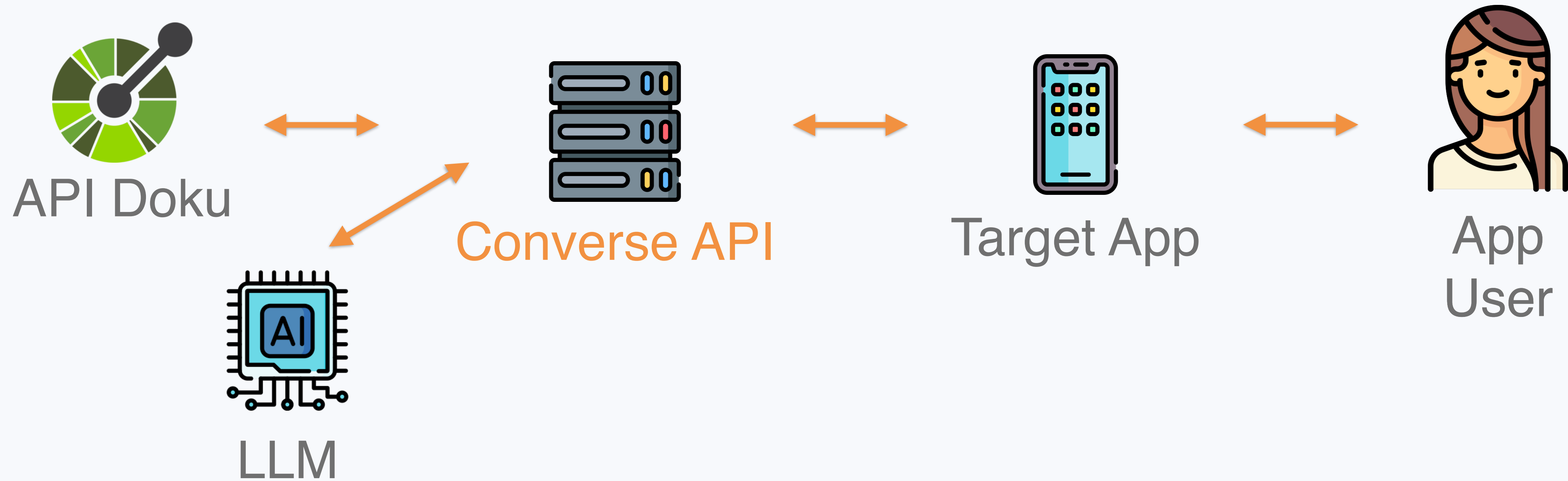
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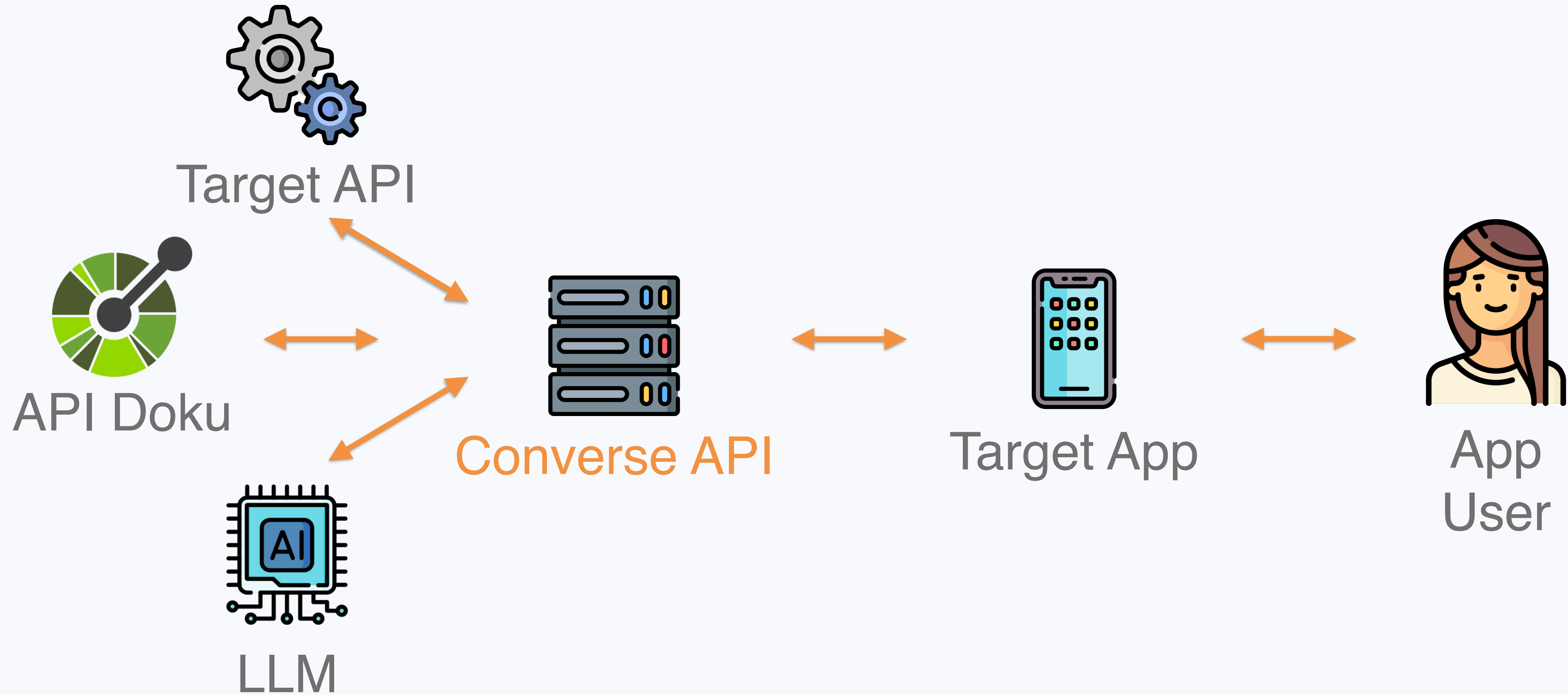
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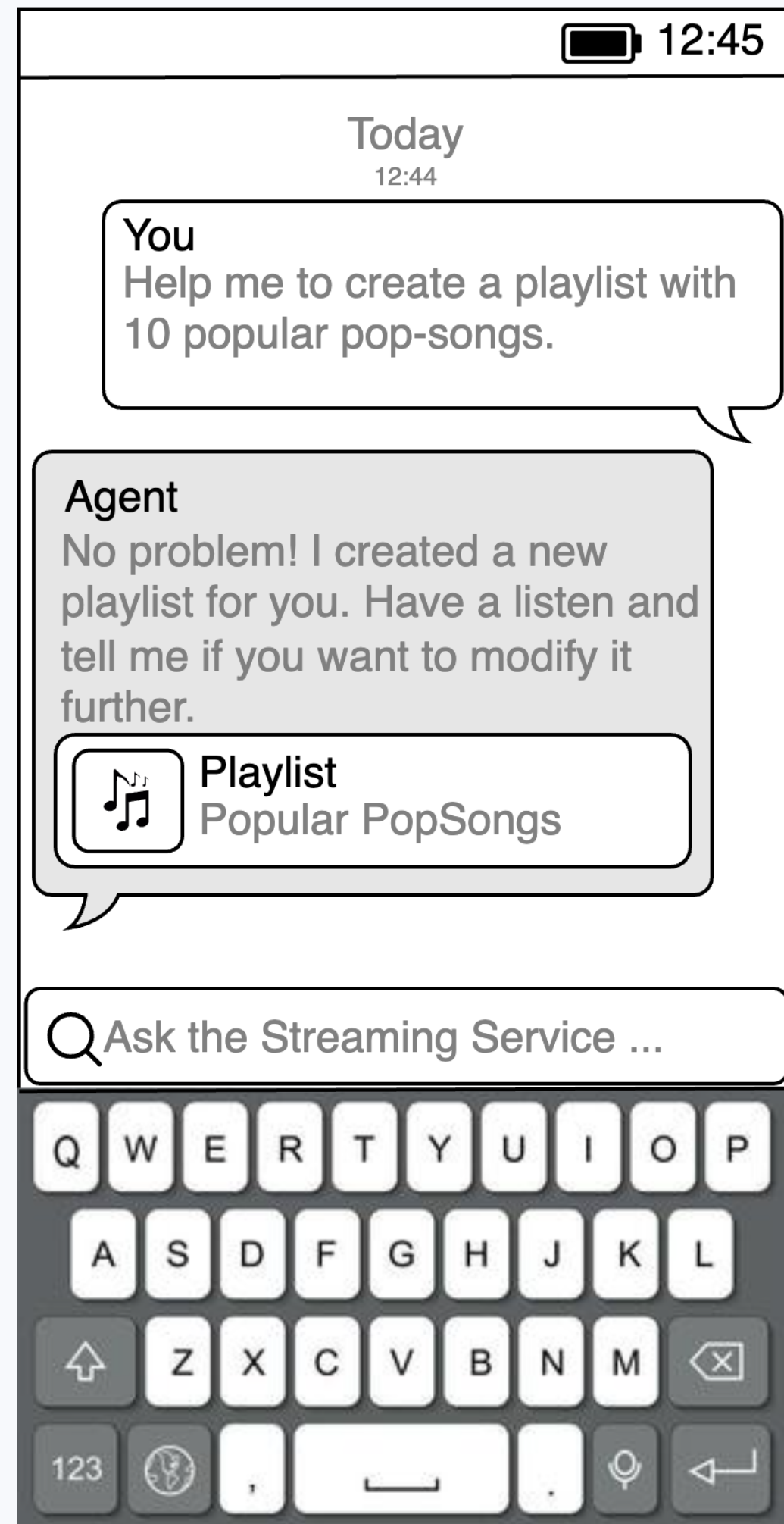
# Our Vision - System Overview



# Our Vision - Mobile User App



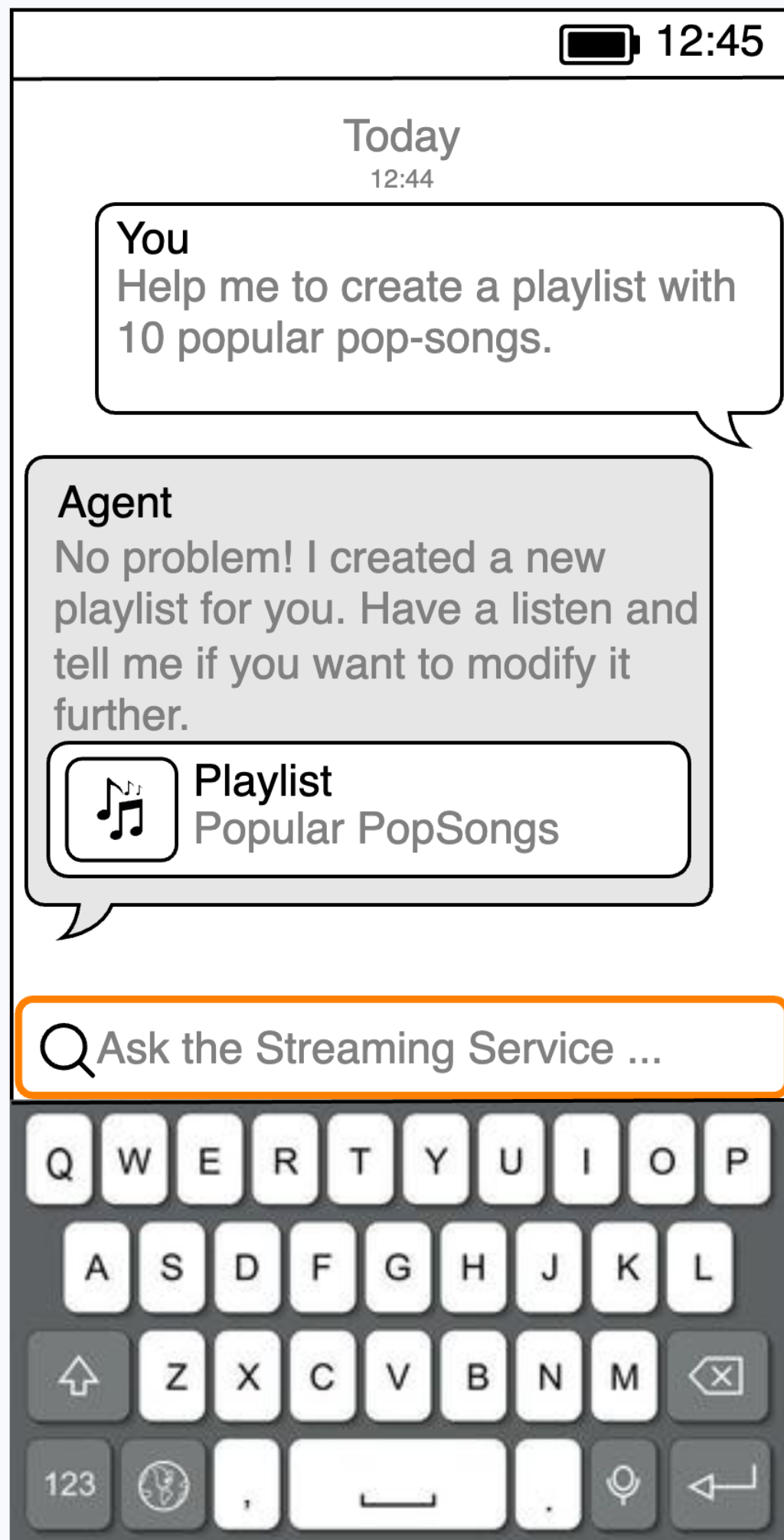
# Our Vision - Mobile User App



## Features



# Our Vision - Mobile User App

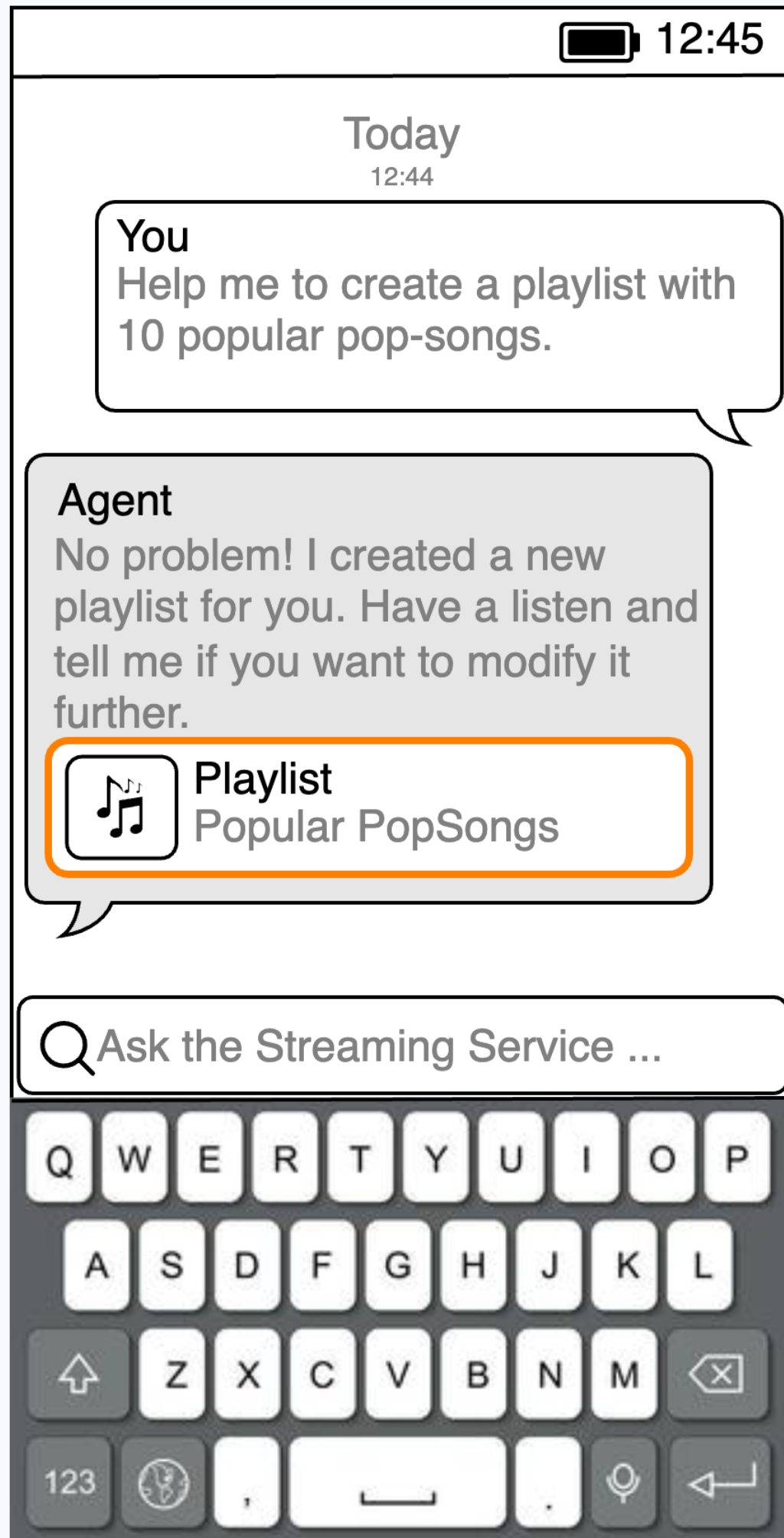


## Features

- Access to API via natural language chat interface



# Our Vision - Mobile User App



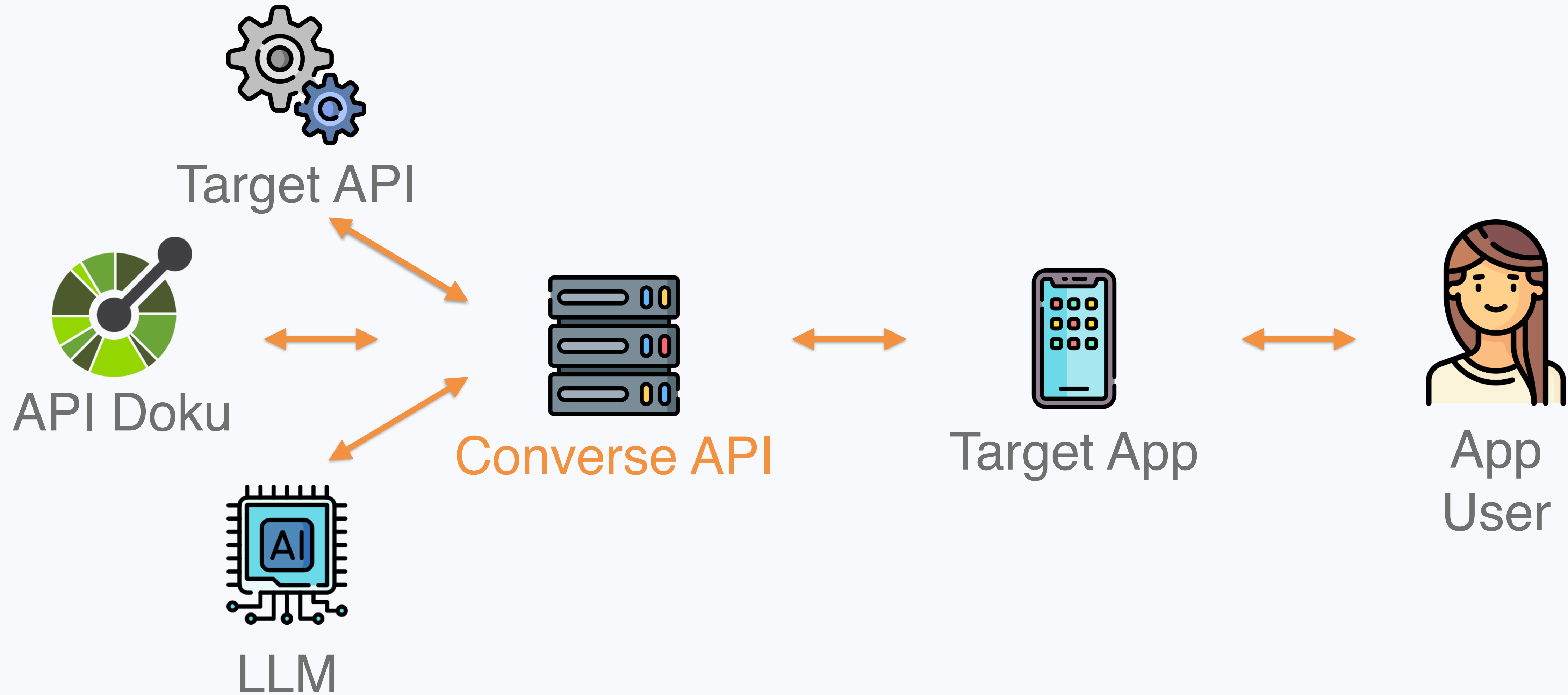
## Features

- Access to API via natural language chat interface
- Dynamic GUI components

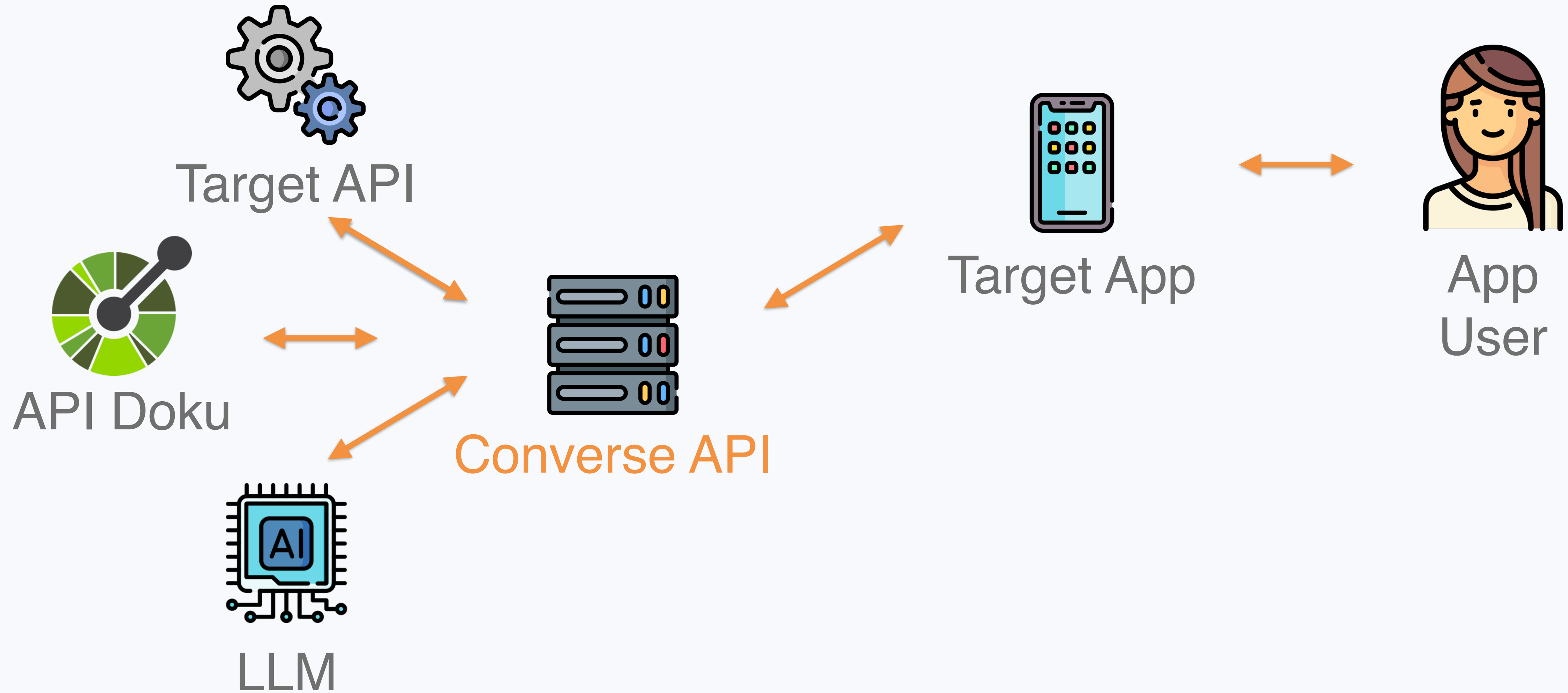




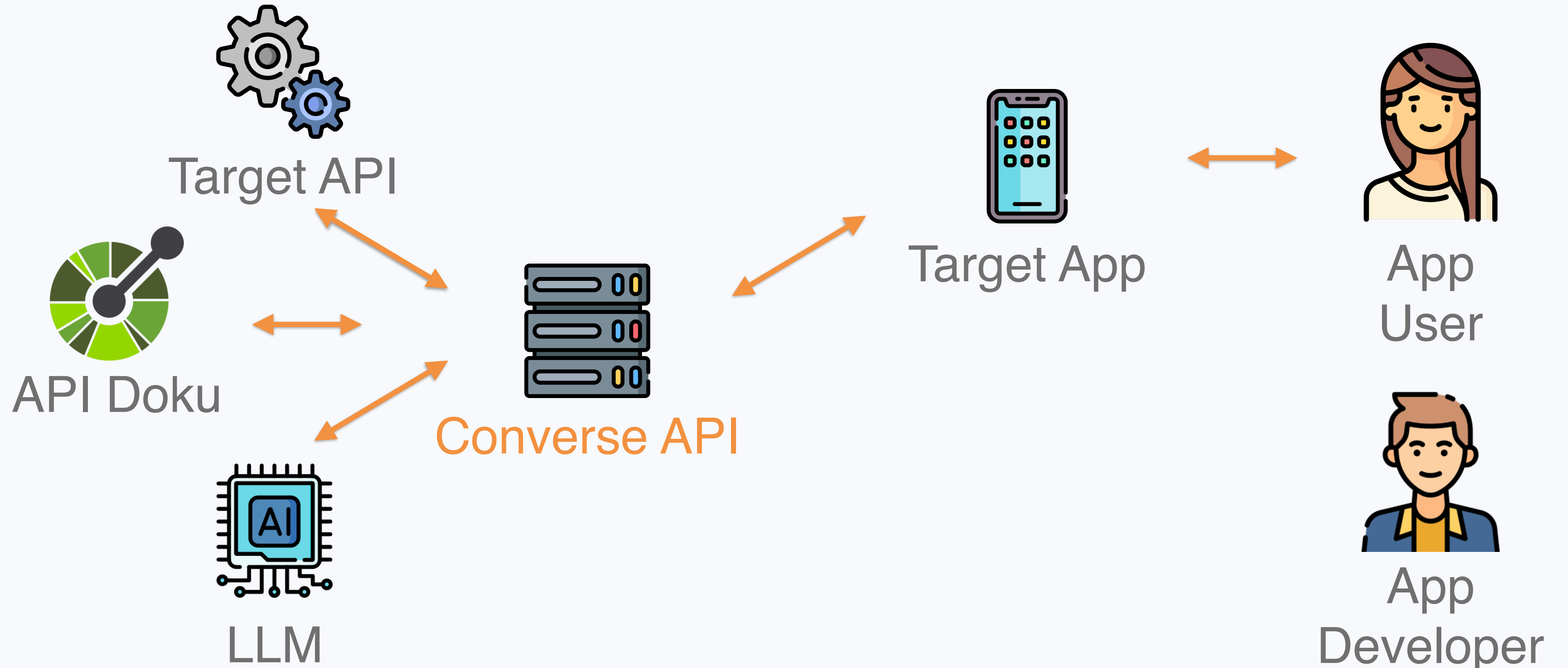
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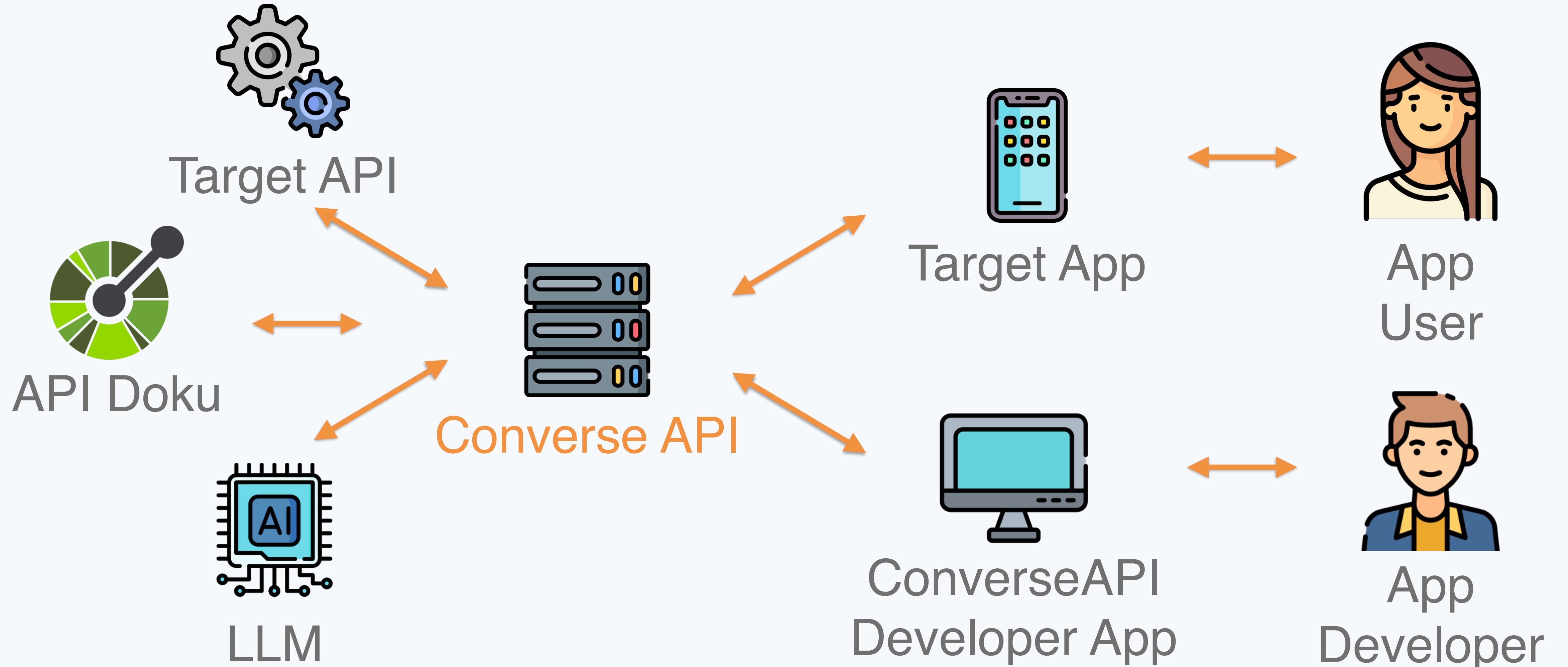
# Our Vision - System Overview



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# Our Vision - System Overview



# Our Vision - Developer Toolkit



# Our Vision - Developer Toolkit

## Features

**Dev Toolkit** XY's API

**Statistics**

<b>987</b> Daily User	<b>42</b> LLM Functions	<b>1028</b> API Calls
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**Session Monitor**

Session ID	Execution plan	Rating
1	GET songs -> POST playlist -> ...	
...	...	...
...	...	...

**Generate**

Test Cases API Exploration Customize API

**Debug View** ! 2 New API Endpoints Detected

**User Message**  
Help me to create a playlist with 10 popular pop-songs.

**Planner Agent**  
ChatGPT o1 Prompt: Design an execution plan ...

**Retrival**  
Custom RAG Tags: Context1, ...

**Agent Request**  
ChatGPT 4 Prompt: Help to...  
Context: Context1, Context2  
Functions: API\_get\_song, API\_create\_playlist, ...

**Agent Response**  
ChatGPT 4o Response: No Problem, I created...  
UI Components: Playlist\_short\_link



# Our Vision - Developer Toolkit

**Dev Toolkit** XY's API

**Statistics**

987 Daily User      42 LLM Functions      1028 API Calls

**Session Monitor**

Session ID	Execution plan	Rating
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Retrieval: Custom RAG | Tags: Context1, ...

Agent Request: ChatGPT 4 | Prompt: Help to...  
Context: Context1, Context2  
Functions: API\_get\_song, API\_create\_playlist, ...

Agent Response: ChatGPT 4o | Response: No Problem, I created...  
UI Components: Playlist\_short\_link

🔍 Ask about the API ...

## Features

- Usage statistics





# Our Vision - Developer Toolkit

**Dev Toolkit** XY's API

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🔍 Ask about the API ...

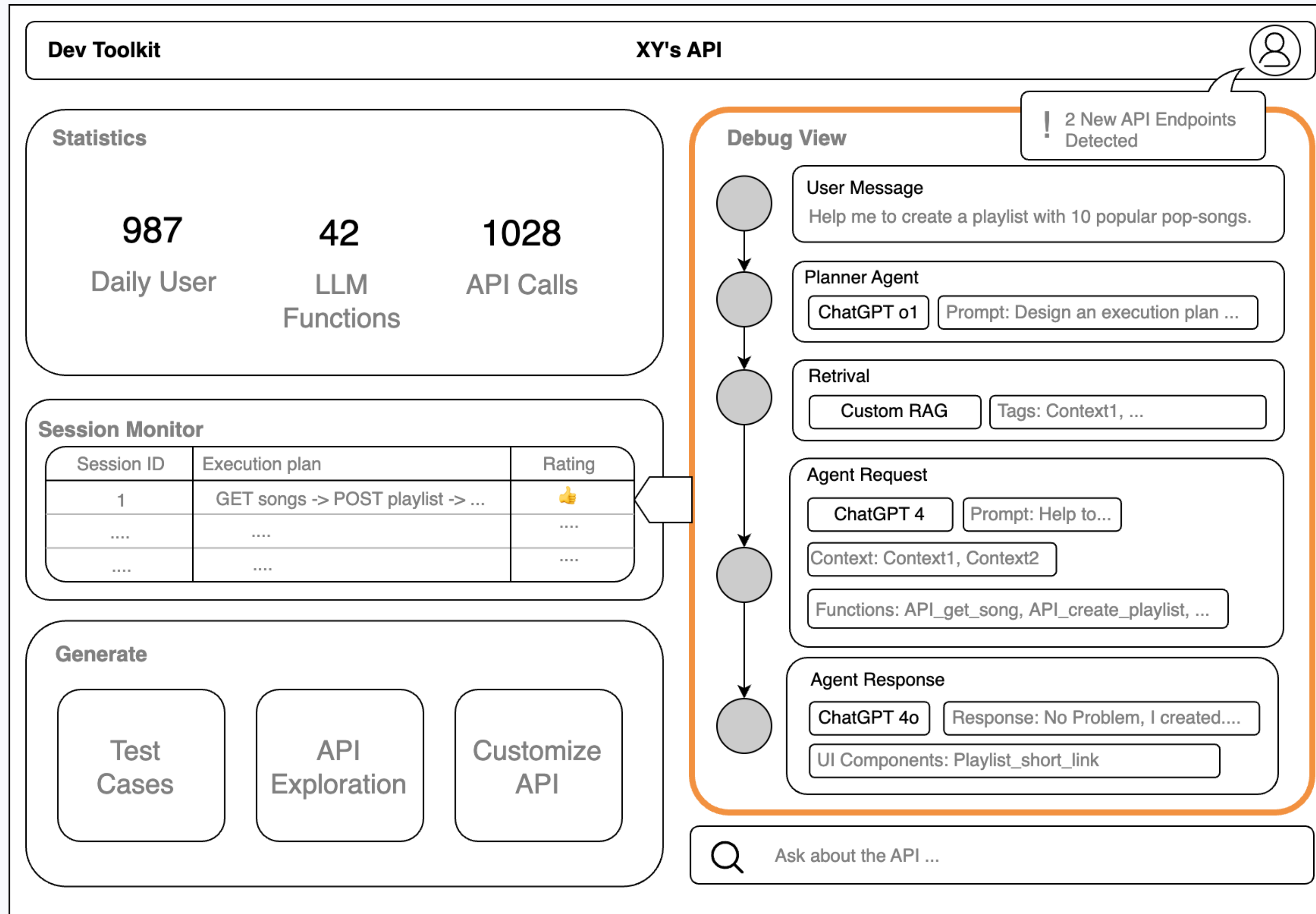
## Features

- Usage statistics
- Monitor





# Our Vision - Developer Toolkit

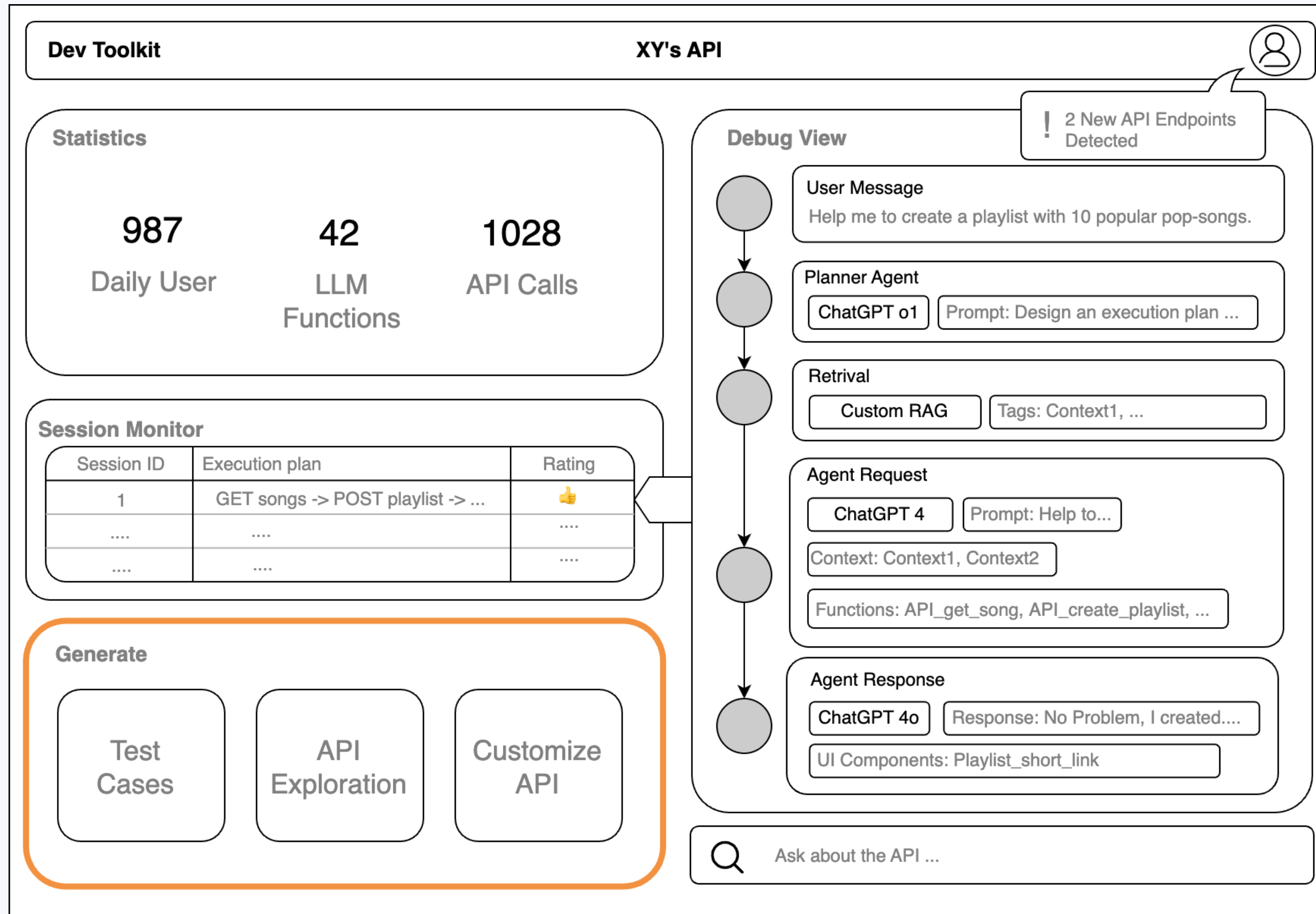


## Features

- Usage statistics
- Monitor
- Debug



# Our Vision - Developer Toolkit



## Features

- Usage statistics
- Monitor
- Debug
- Generate API tests



# Our Vision - Developer Toolkit

The screenshot shows a developer toolkit interface for 'XY's API'. It is divided into several sections:

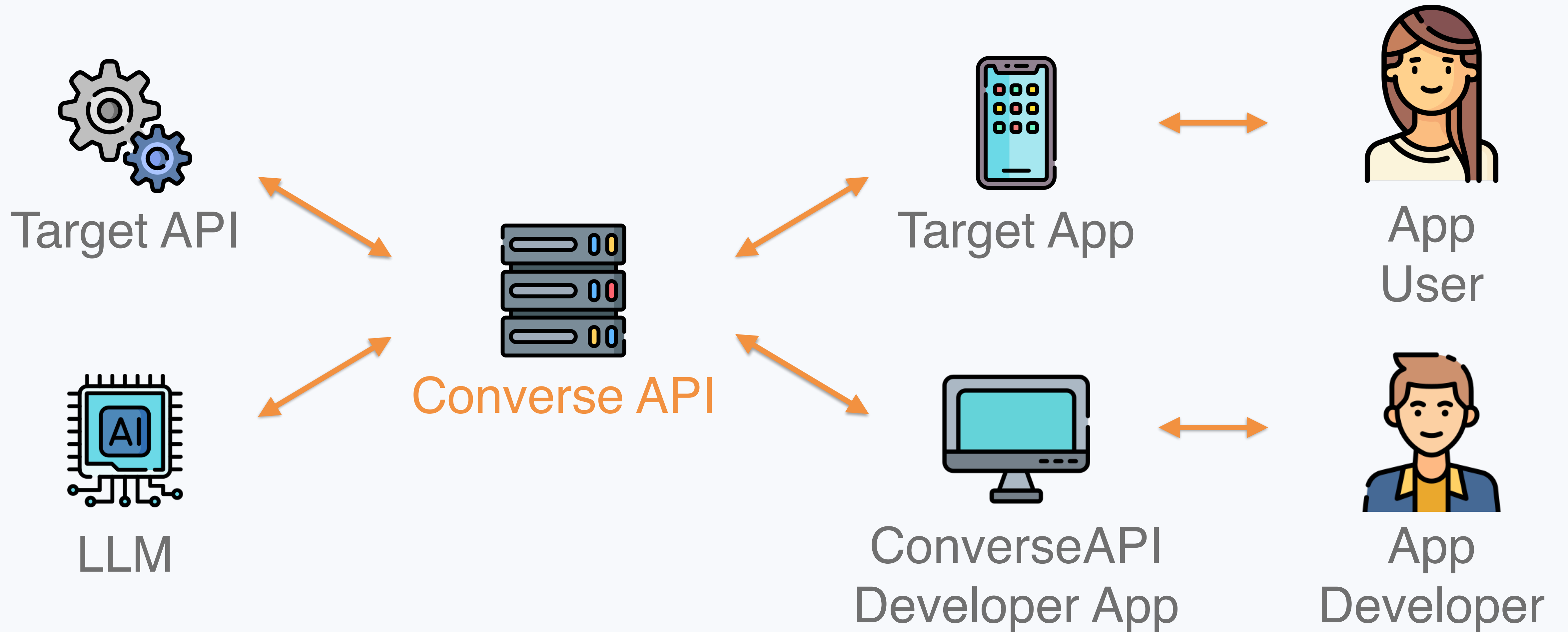
- Dev Toolkit** (top left): A header with a user profile icon and a notification: "2 New API Endpoints Detected".
- Statistics** (top left): A dashboard showing 987 Daily Users, 42 LLM Functions, and 1028 API Calls.
- Session Monitor** (middle left): A table with columns for Session ID, Execution plan, and Rating. The first row shows Session ID 1, Execution plan "GET songs -> POST playlist -> ...", and a thumbs-up rating.
- Generate** (bottom left): Three buttons for "Test Cases", "API Exploration", and "Customize API".
- Debug View** (right): A vertical flow of steps in a debug process:
  - User Message**: "Help me to create a playlist with 10 popular pop-songs."
  - Planner Agent**: "ChatGPT o1" with prompt "Design an execution plan ..."
  - Retrival**: "Custom RAG" with tags "Context1, ..."
  - Agent Request**: "ChatGPT 4" with prompt "Help to...", context "Context1, Context2", and functions "API\_get\_song, API\_create\_playlist, ..."
  - Agent Response**: "ChatGPT 4o" with response "No Problem, I created..." and UI components "Playlist\_short\_link".
- Search** (bottom right): A search bar with a magnifying glass icon and the text "Ask about the API ...".

## Features

- Usage statistics
- Monitor
- Debug
- Generate API tests
- Explain API



# Our Vision - System Overview

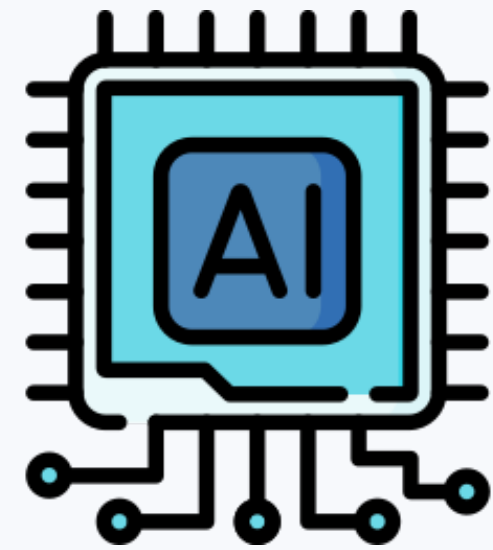




# The Team - Who are we looking for?



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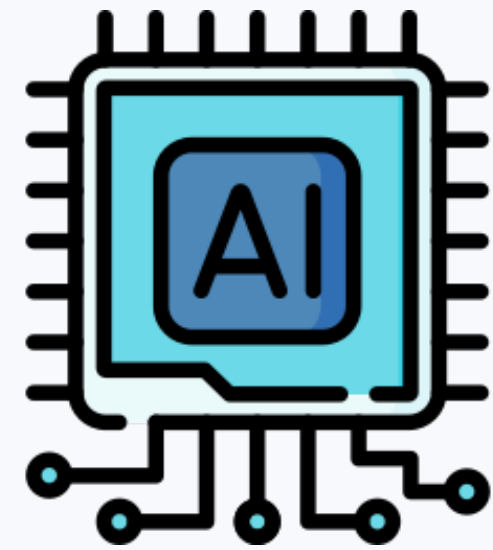


Curious

Be a part of the  
AI revolution!

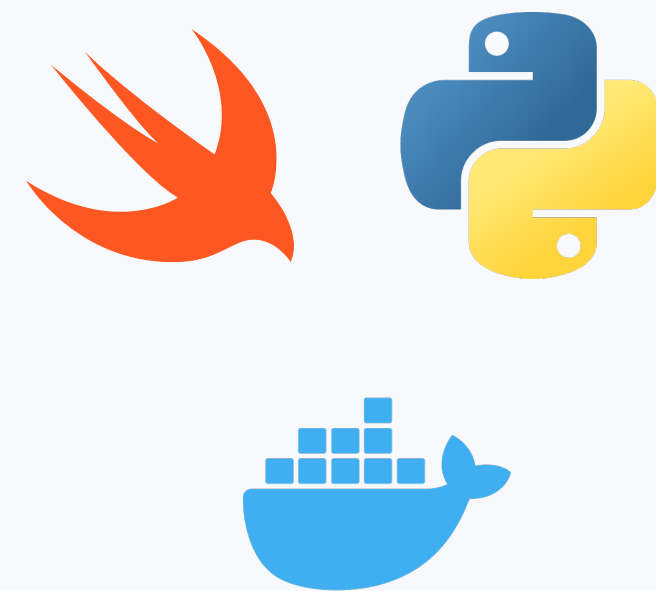


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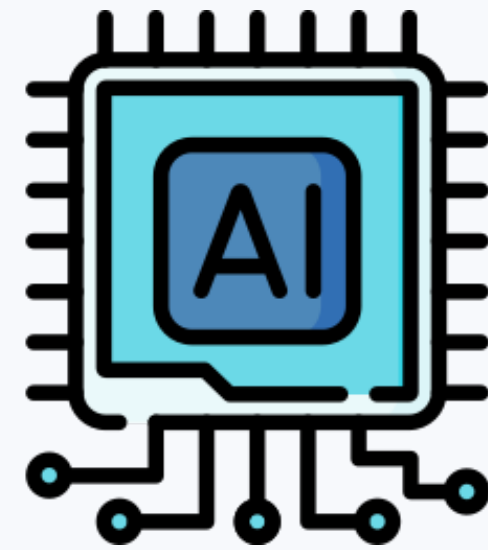
## Eager

Extend or perfect  
your tech stack!



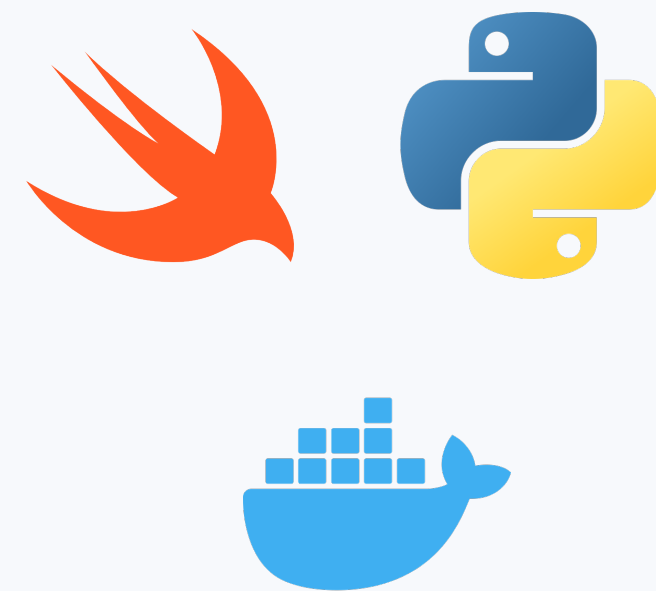


# The Team - Who are we looking for?



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Be a part of the AI revolution!



## Eager

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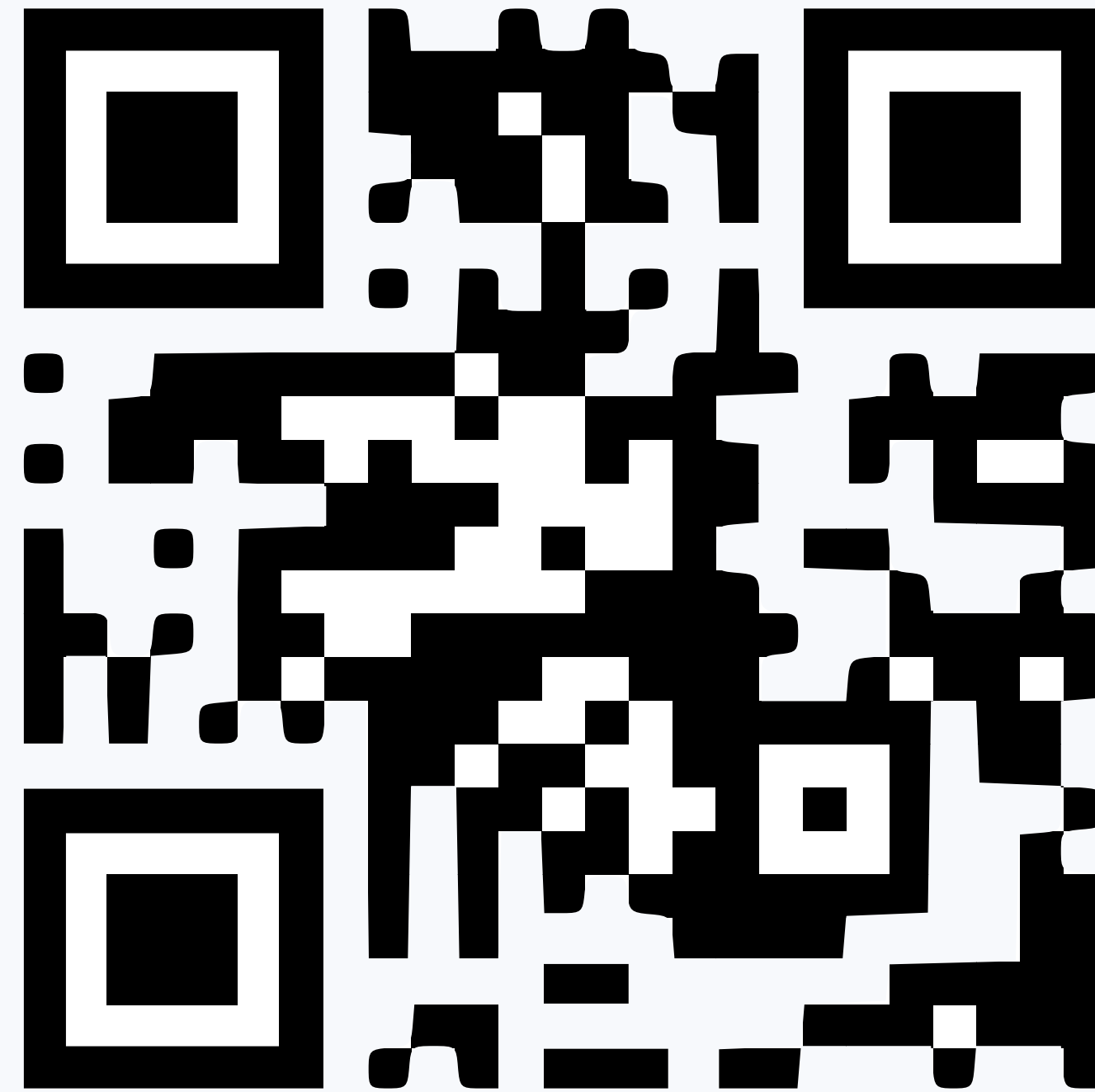


## Motivated

Engineer natural language APIs!



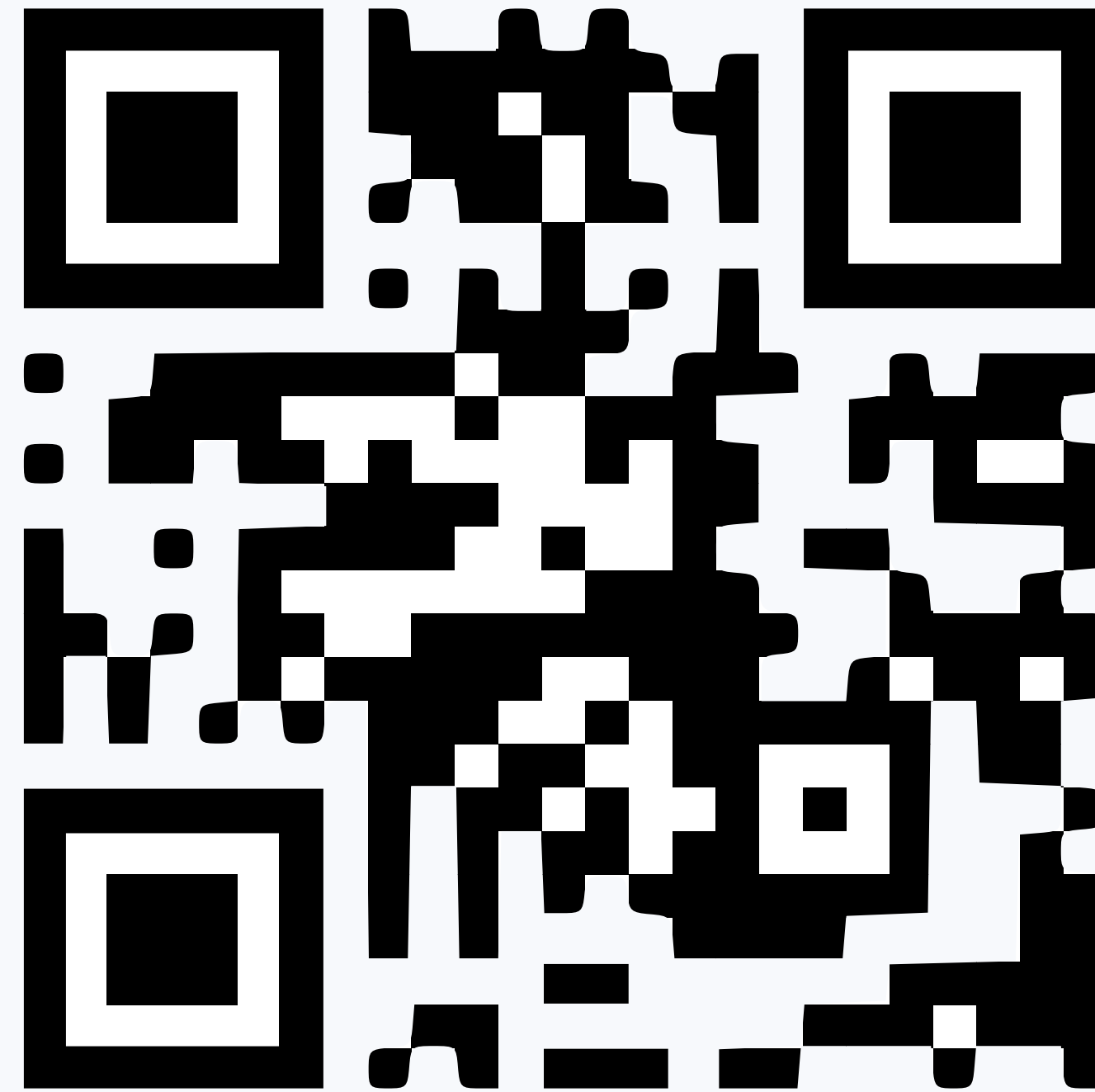
# Visit the ConverseAPI Website



<https://converseapi.dev>



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<https://converseapi.dev>



See you at the Magistrale!



# See you at the Magistrale!



CEO

Dr. Wolfgang  
Maison

w.maison@weptun.de



CTO

Christoph  
Hausmann

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Tech Lead

Simon  
Lang

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