



YALLAEAT.AI

Arabic Restaurants Ordering Chatbot

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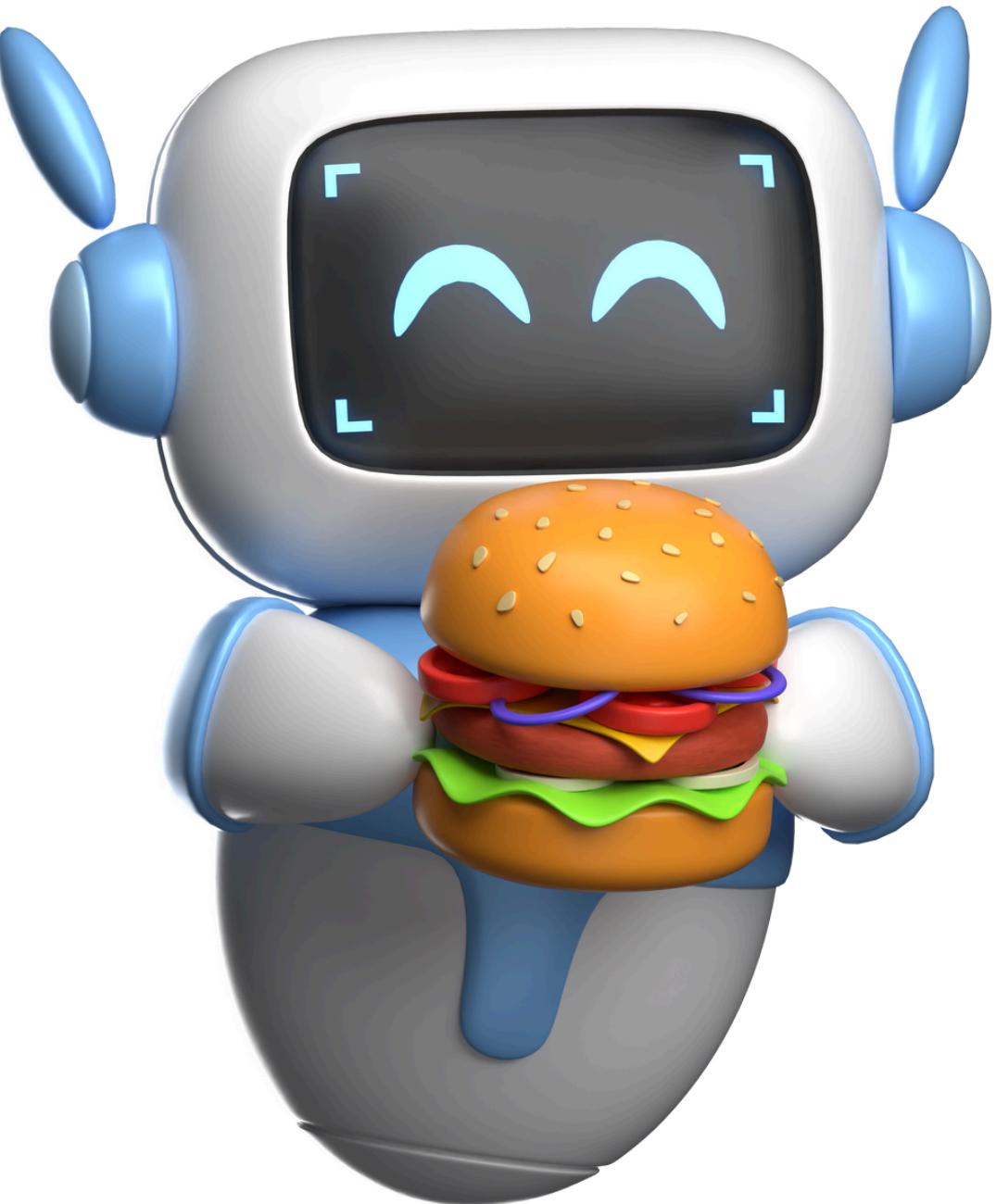
Introduction

1. What is YallaEat.ai?

An AI-powered assistant that makes restaurant food ordering faster, smarter, and more personalized – all in natural Arabic conversations.

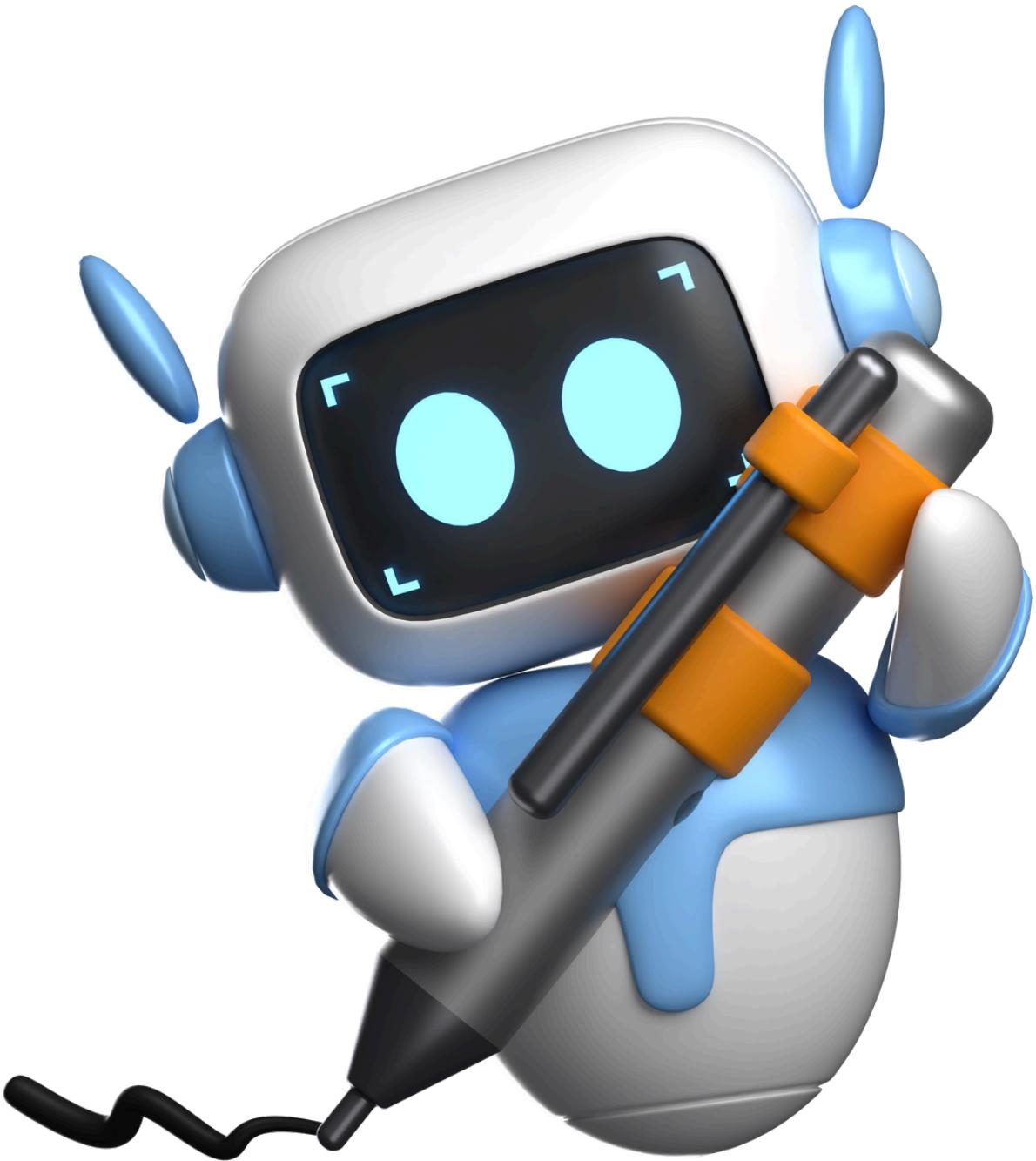
2. Why it matters.

Helping restaurants reduce wait times and giving customers a seamless ordering experience in their own language.



The Problem

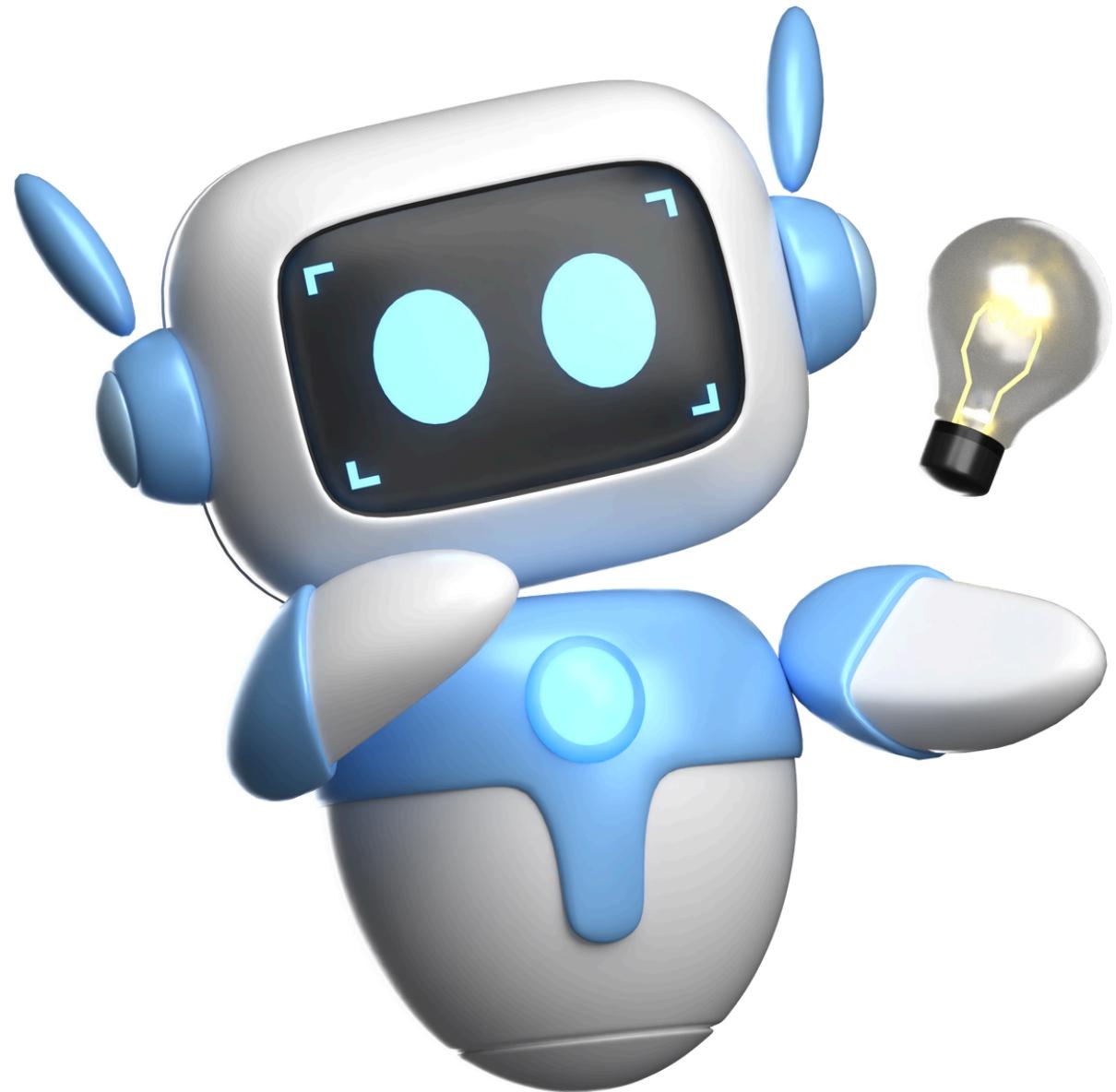
- 1 Slow & inefficient ordering during peak hours.
- 2 Repeating customer info every time
- 3 Missed or delayed orders due to human errors.
- 4 Lost customer and Financial losses



Our Solution

- 1 Customer Solution: a smooth, fast, and natural ordering experience

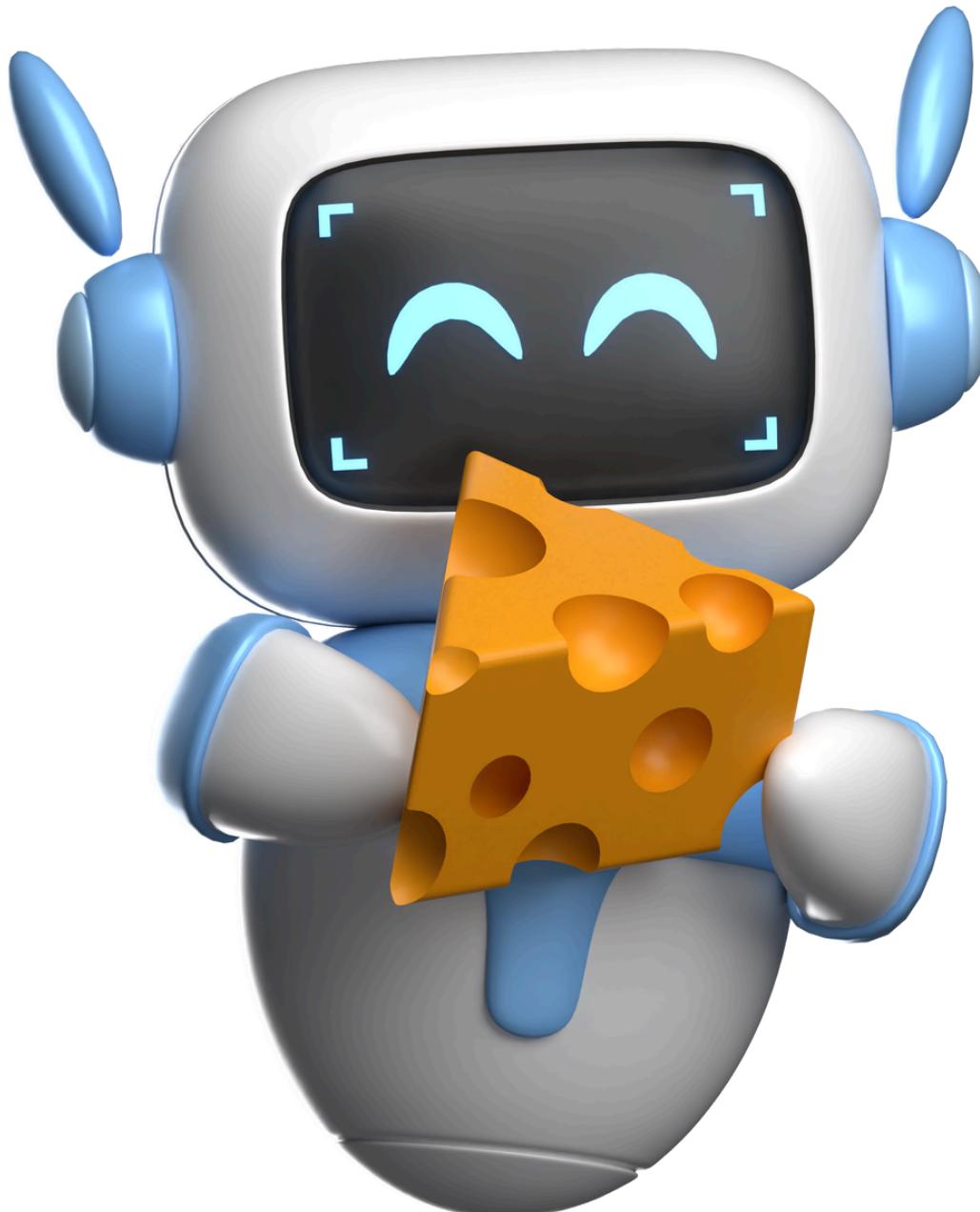
- 2 Admin Solution: tools for restaurants to manage menus, track orders, and improve efficiency.



Offering

For Customers

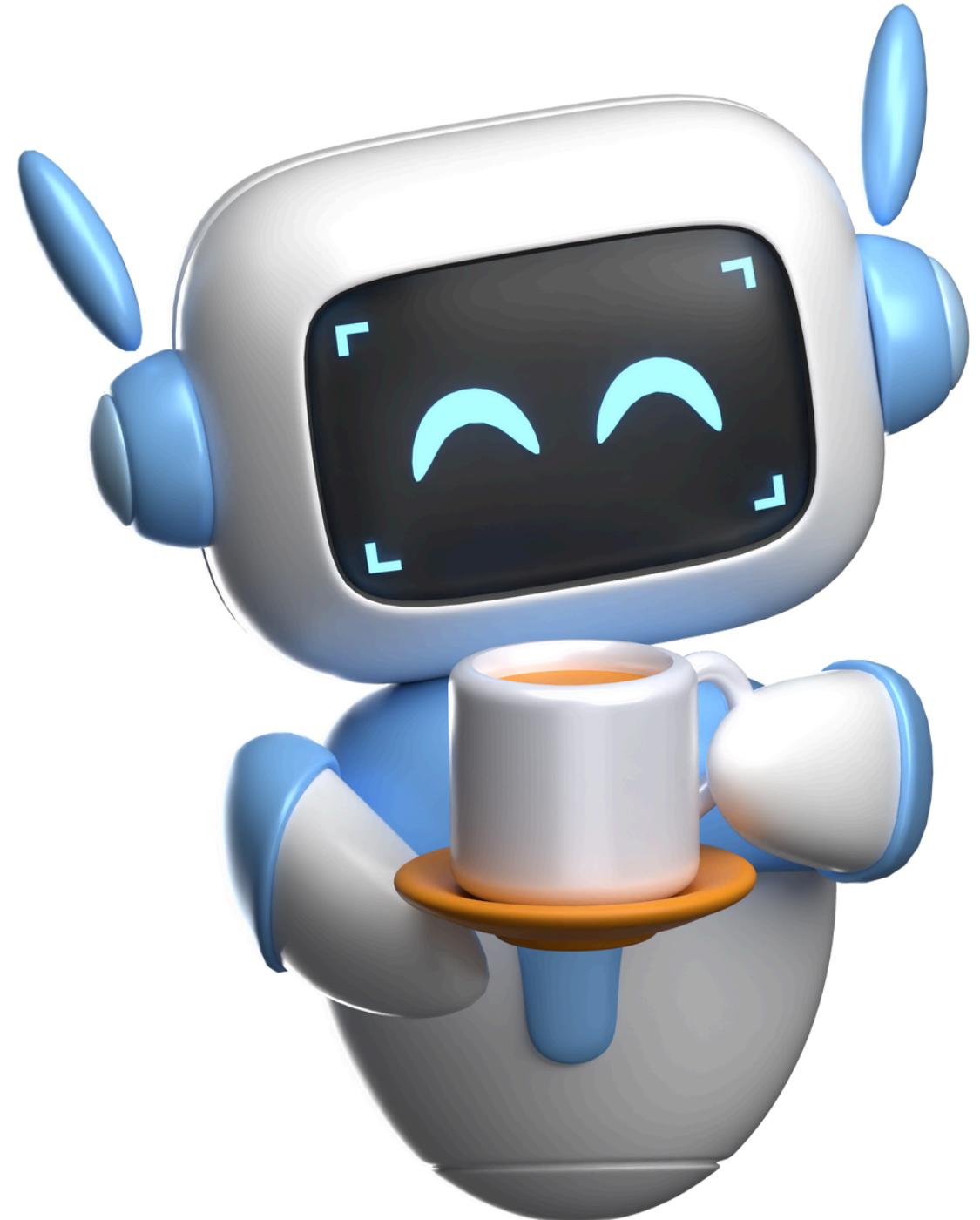
- 1 Seamless and fast ordering experience.
- 2 Natural Arabic conversations with the chatbot.
- 3 Personalized meal suggestions.



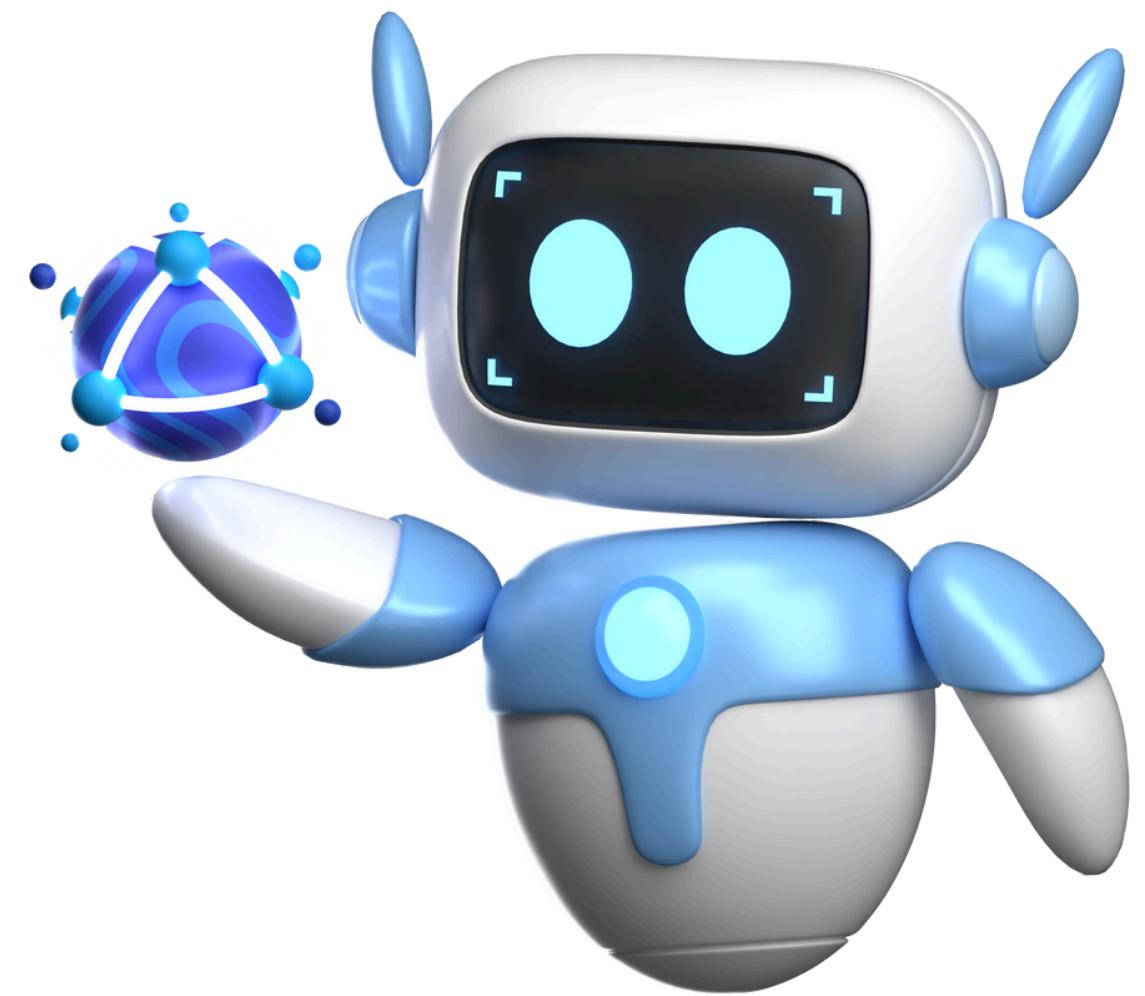
Offering

For Restaurants

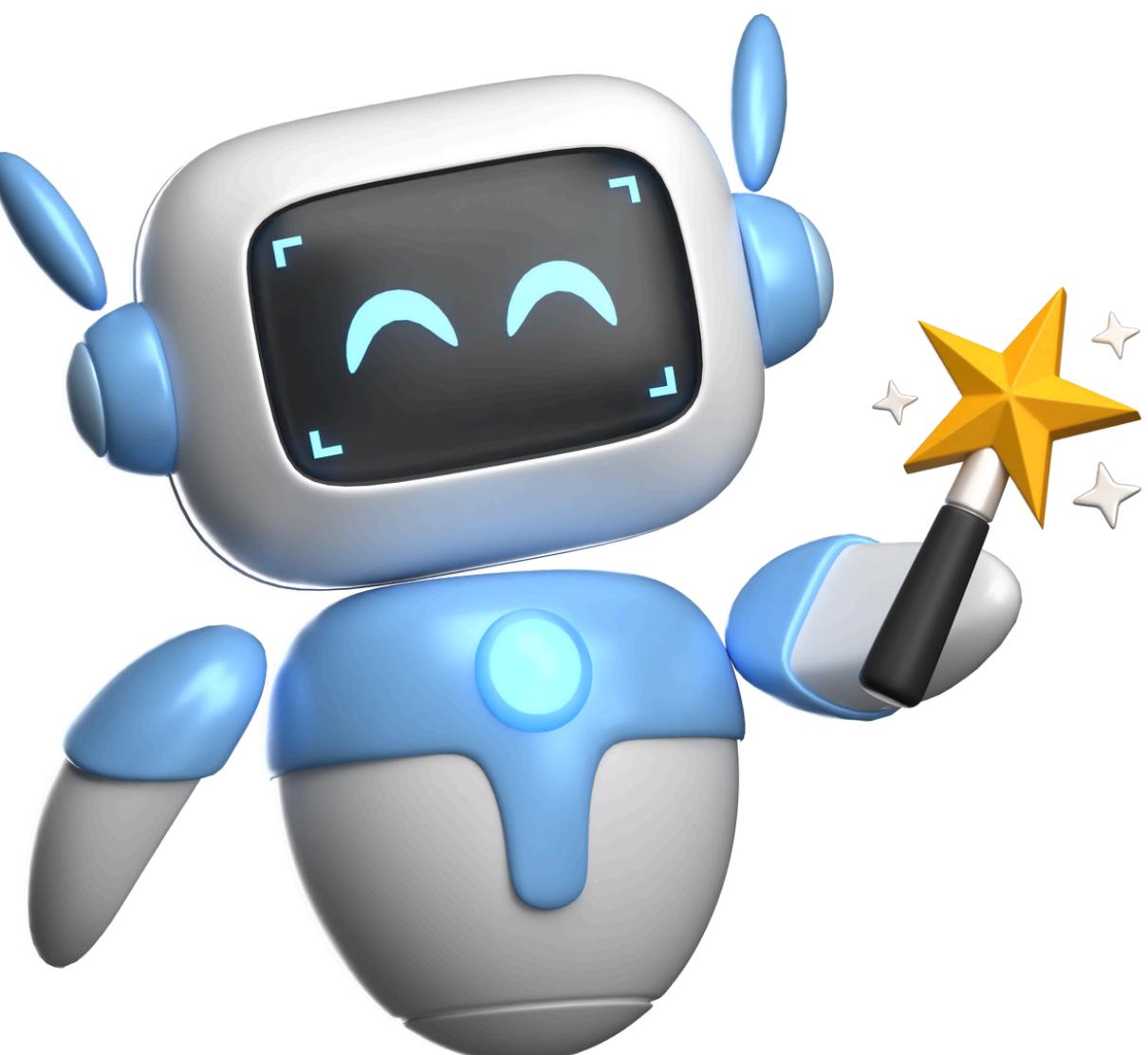
- 1 Reduce order handling time & staff workload.
- 2 Minimize order errors.
- 3 Enhance customer satisfaction & loyalty.



Features & Scope Overview



Features



User Authentication

Menu Interaction

Recommendations

Order Placement

Order Tracking

Order Processing

Reservation

Menu Management

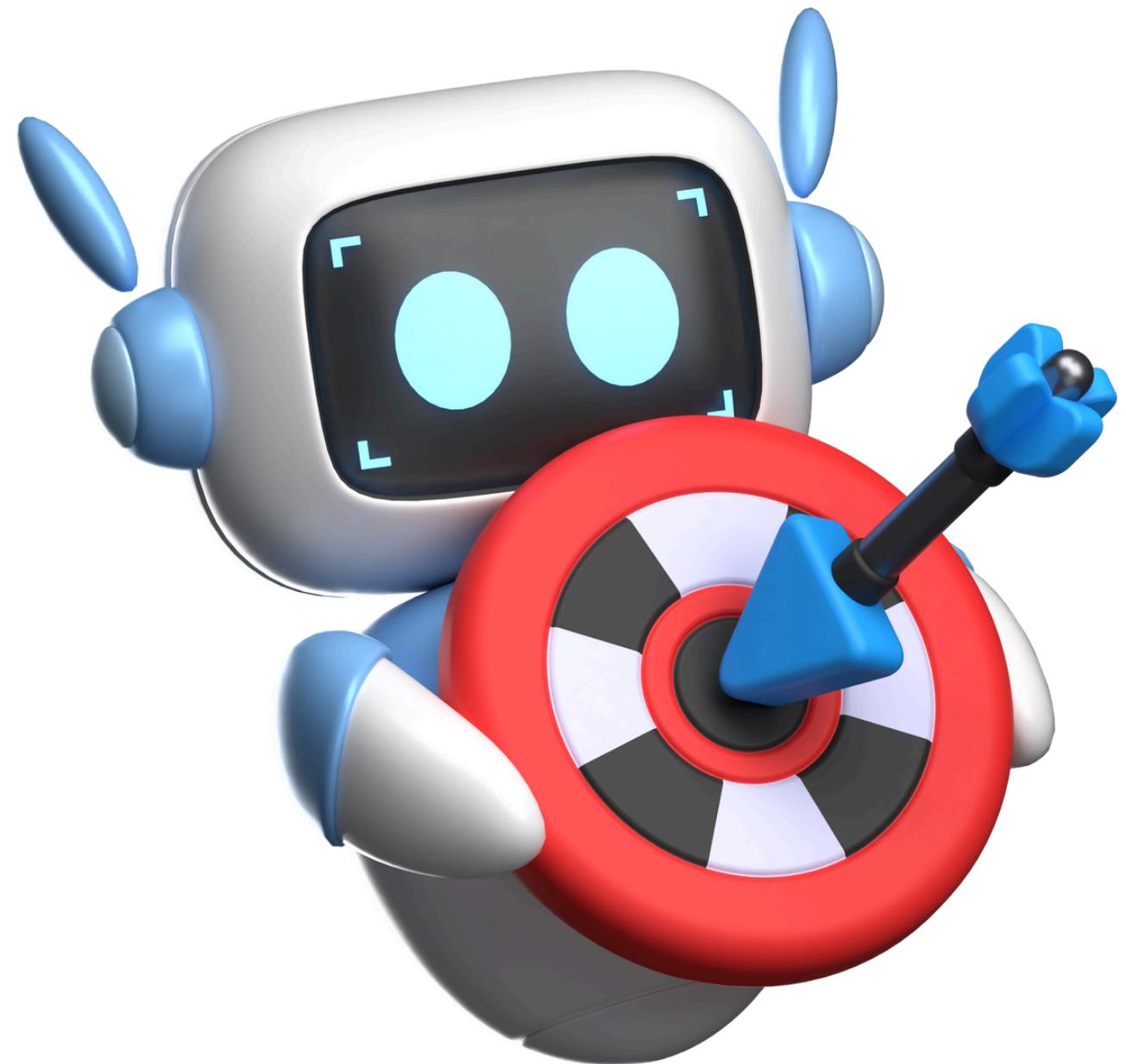
Analytics

Multi language support

Voice Interaction

Feedback & Review

MVP Features



User Authentication

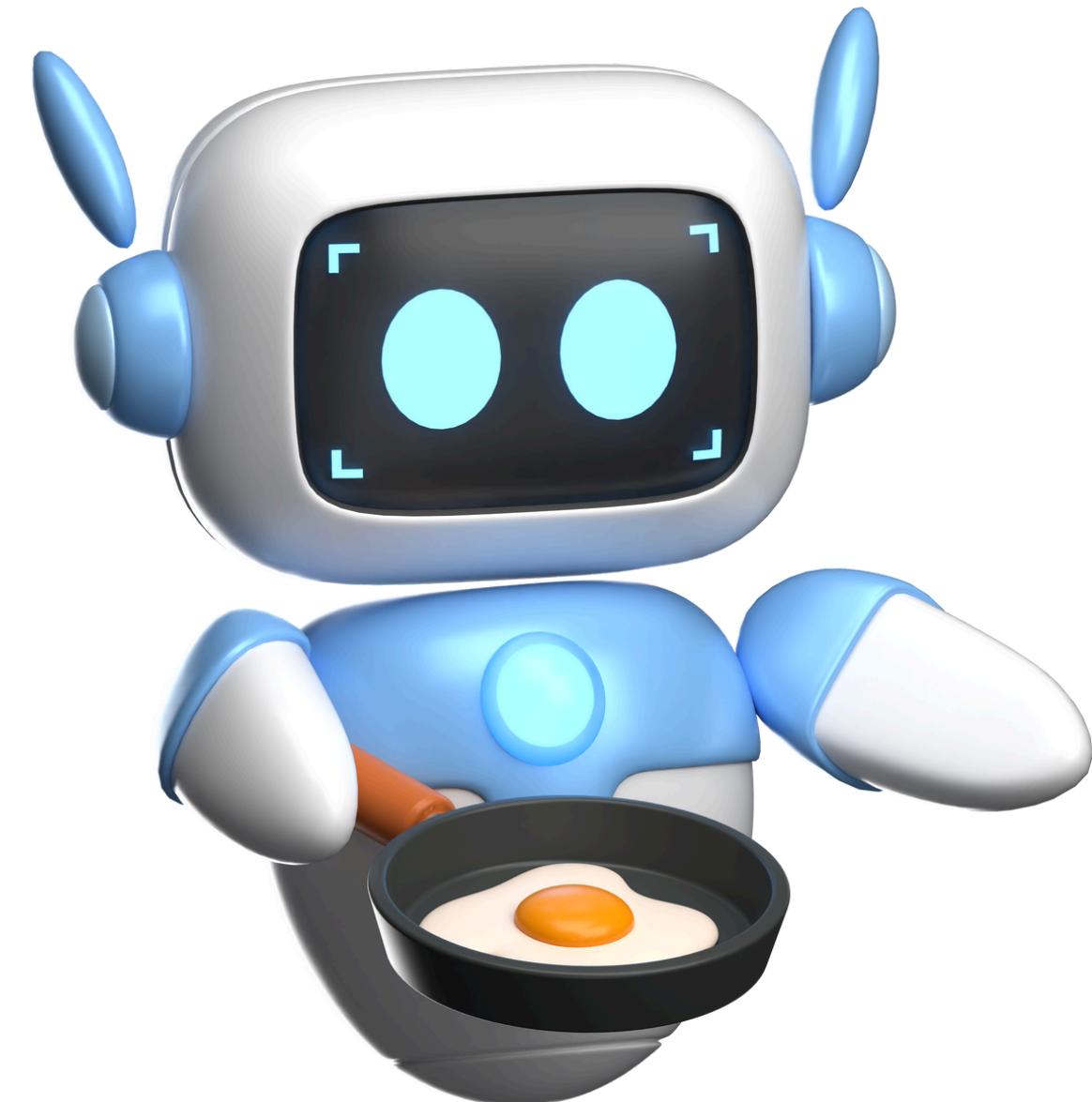
Menu Management

Menu Interaction

Ordering System

Recommendations

Additional Features



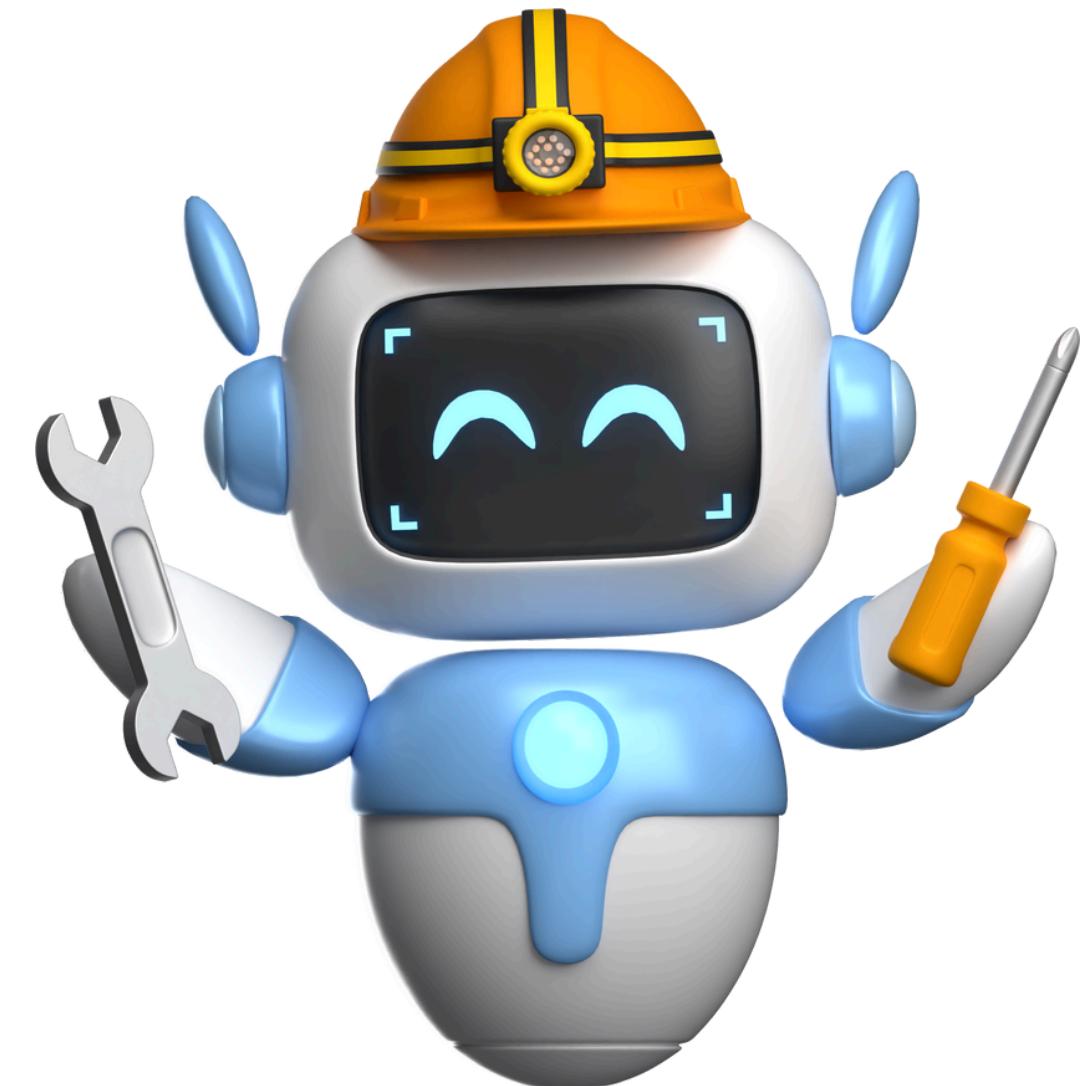
Specify dietary preferences

Edit the order summary

Track order status

Book a table via chatbot

System Architecture and Design



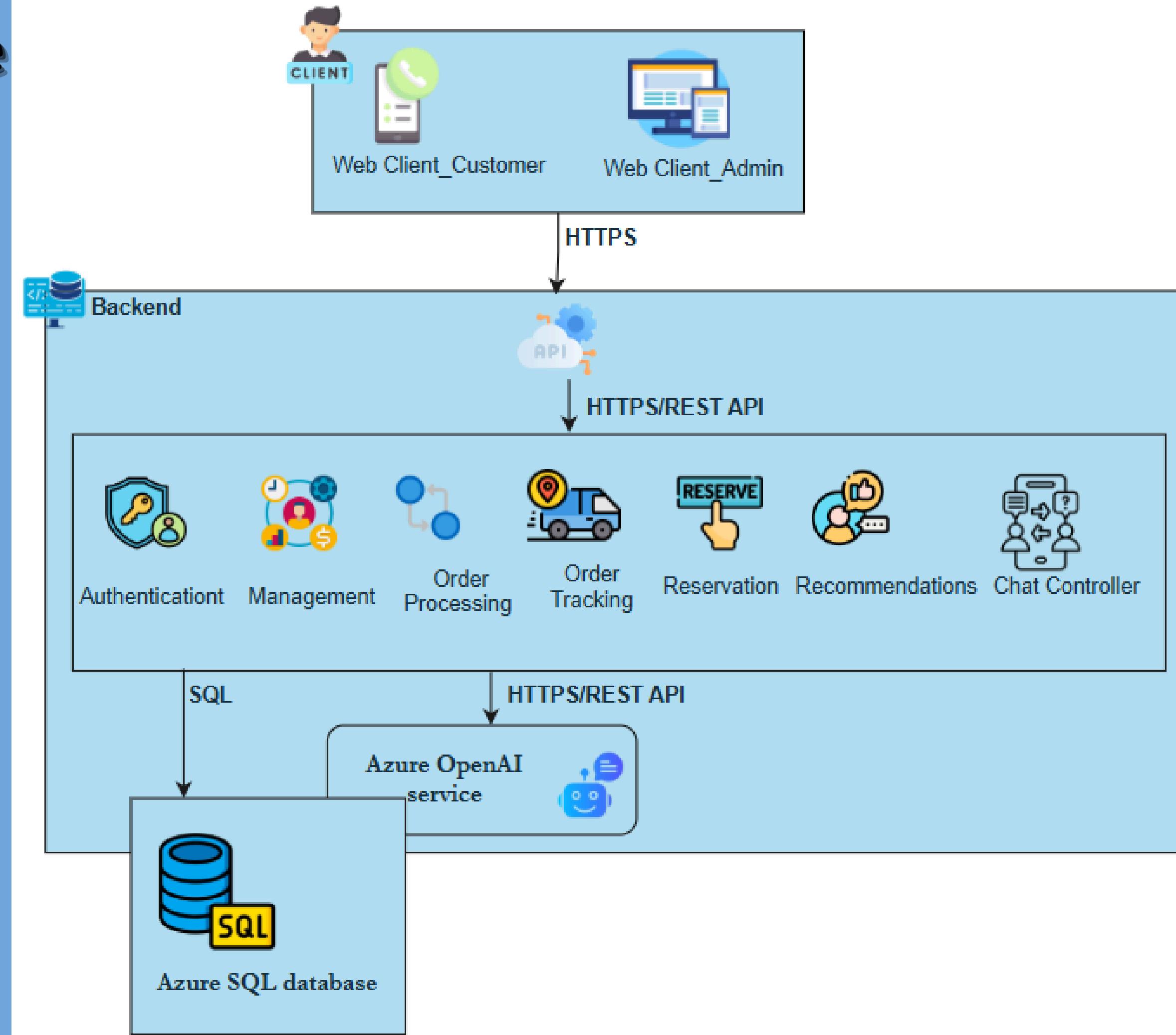
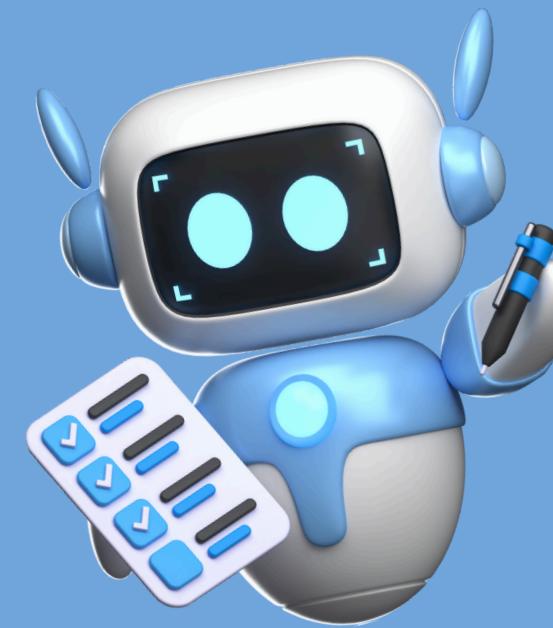
Software Architecture

Layers

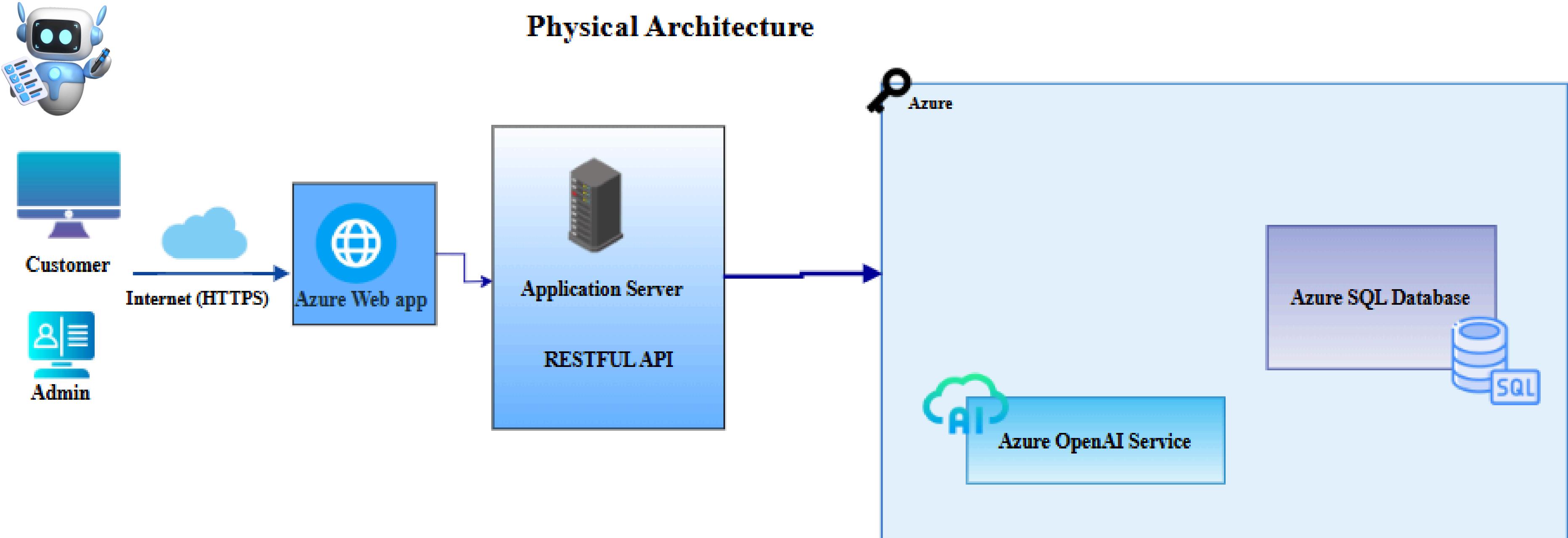
- Client
- Backend
- Azure AI
- Storage

Protocols

- HTTPS
- SQL



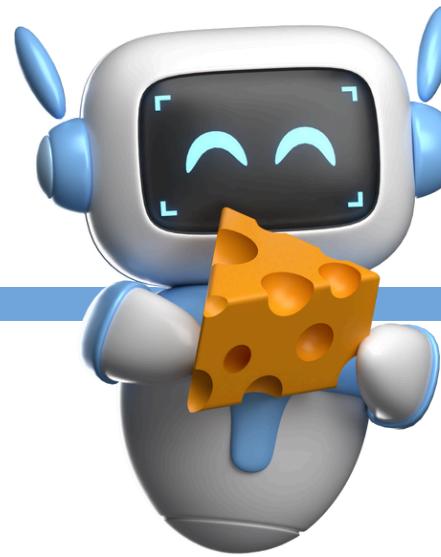
Physical Architecture



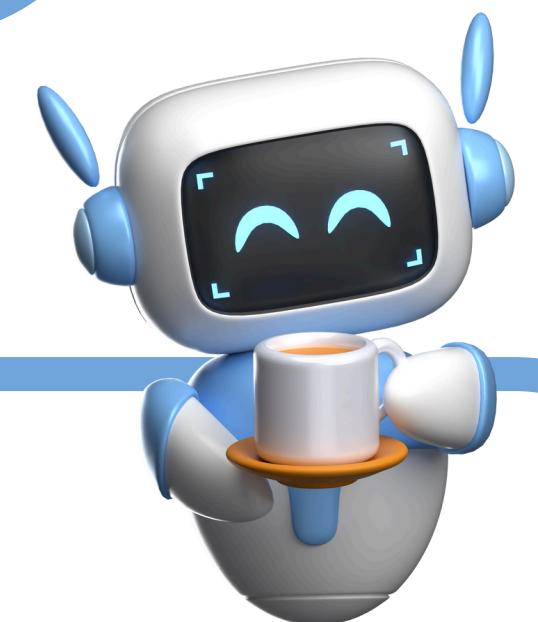
- Our web app is deployed on Azure



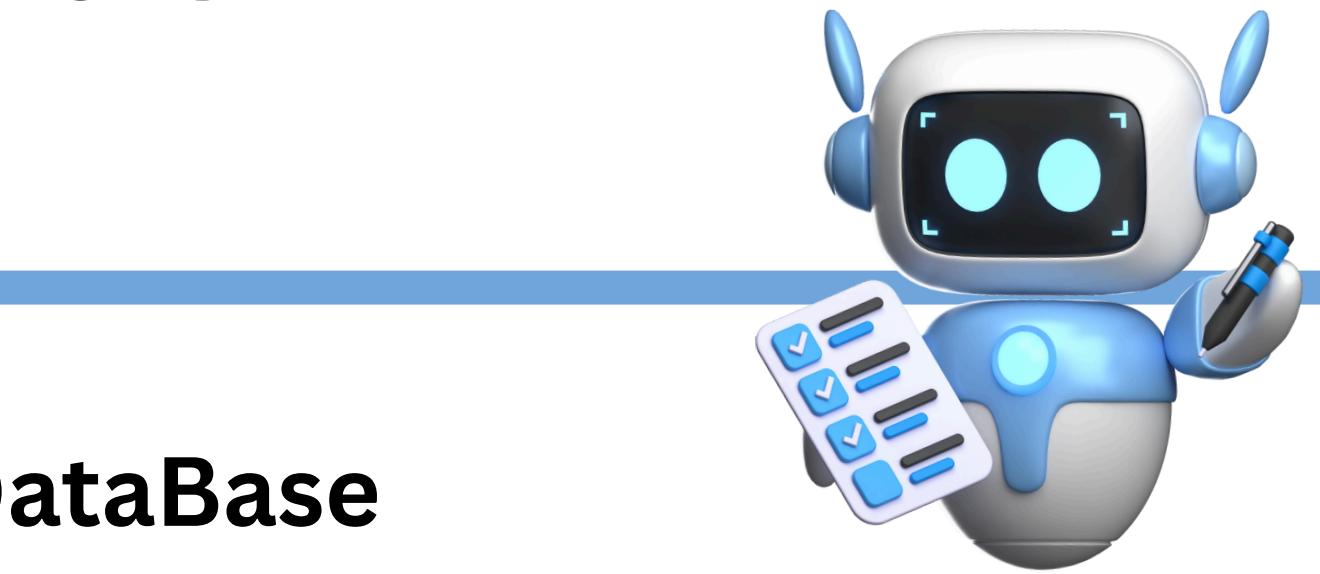
Project Areas



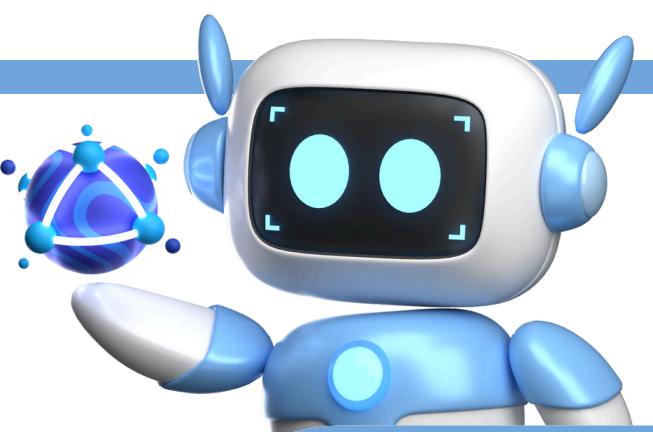
**Backend
Development**



**Frontend
Development**



DataBase



AI Services

Technology Stack

1 Backend and Frontend

ASP .NET Core powers the backend.

HTML, CSS, JavaScript, and Bootstrap 5 for a responsive frontend.

2 AI Services

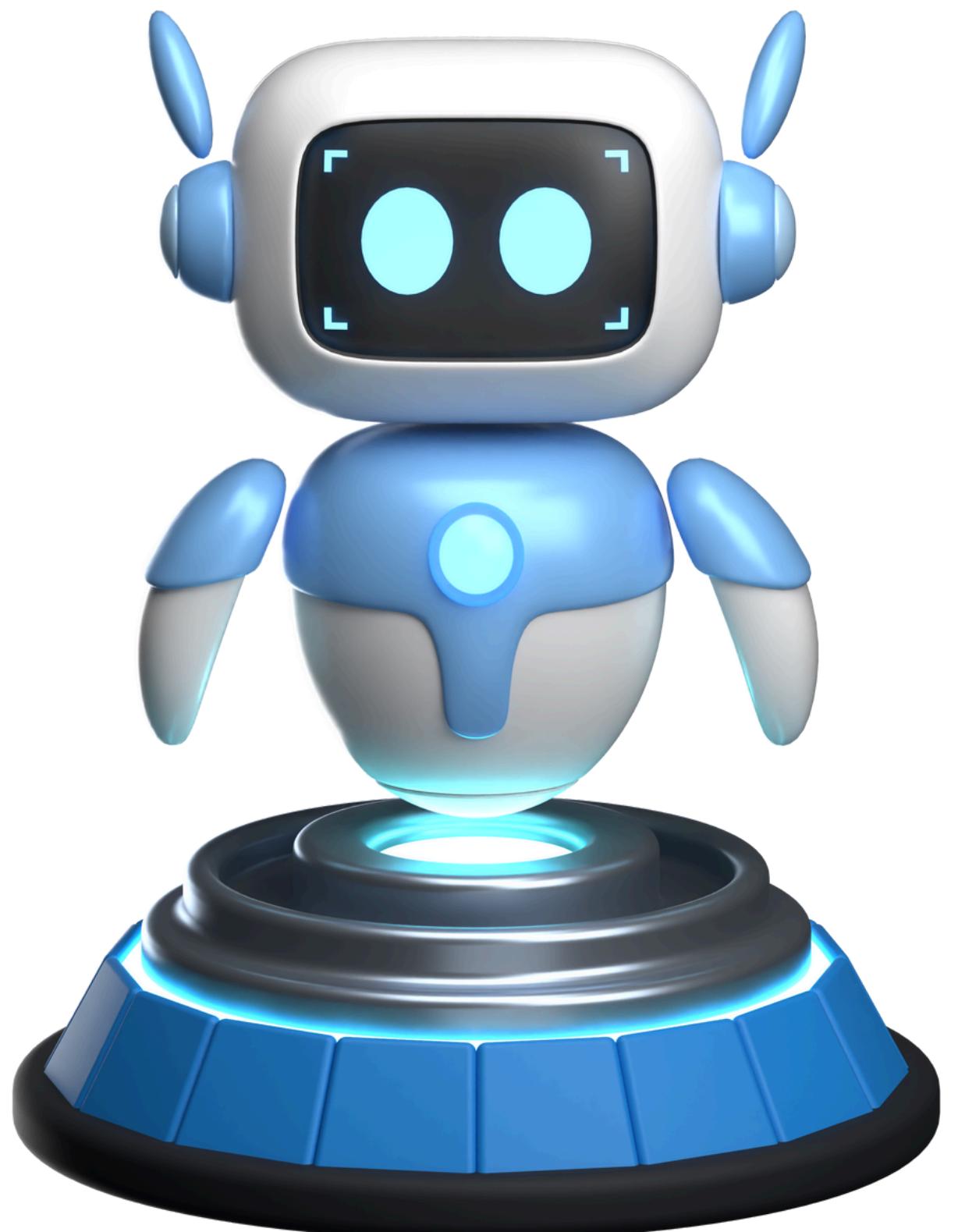
Azure & AI Foundry services for conversational intelligence & model deployment.

3 Database Management

Azure SQL Database offers robust and scalable data storage for managing application data efficiently.

4 DevOps and Collaboration

Azure DevOps facilitates version control, sprint planning, task tracking, and automated builds and deployments.



Azure Services



Azure OpenAI Service

GPT-3.5 Turbo via Azure AI Foundry

We used GPT-3.5 Turbo to build a smart chatbot that understands Arabic and helps users order easily.



Azure SQL Server databases

We used this to store user data, menus, and orders in a secure and organized way.



Azure App Service

We used this to host our web app and make sure it runs smoothly and is always available.

API Documentation

ChatController

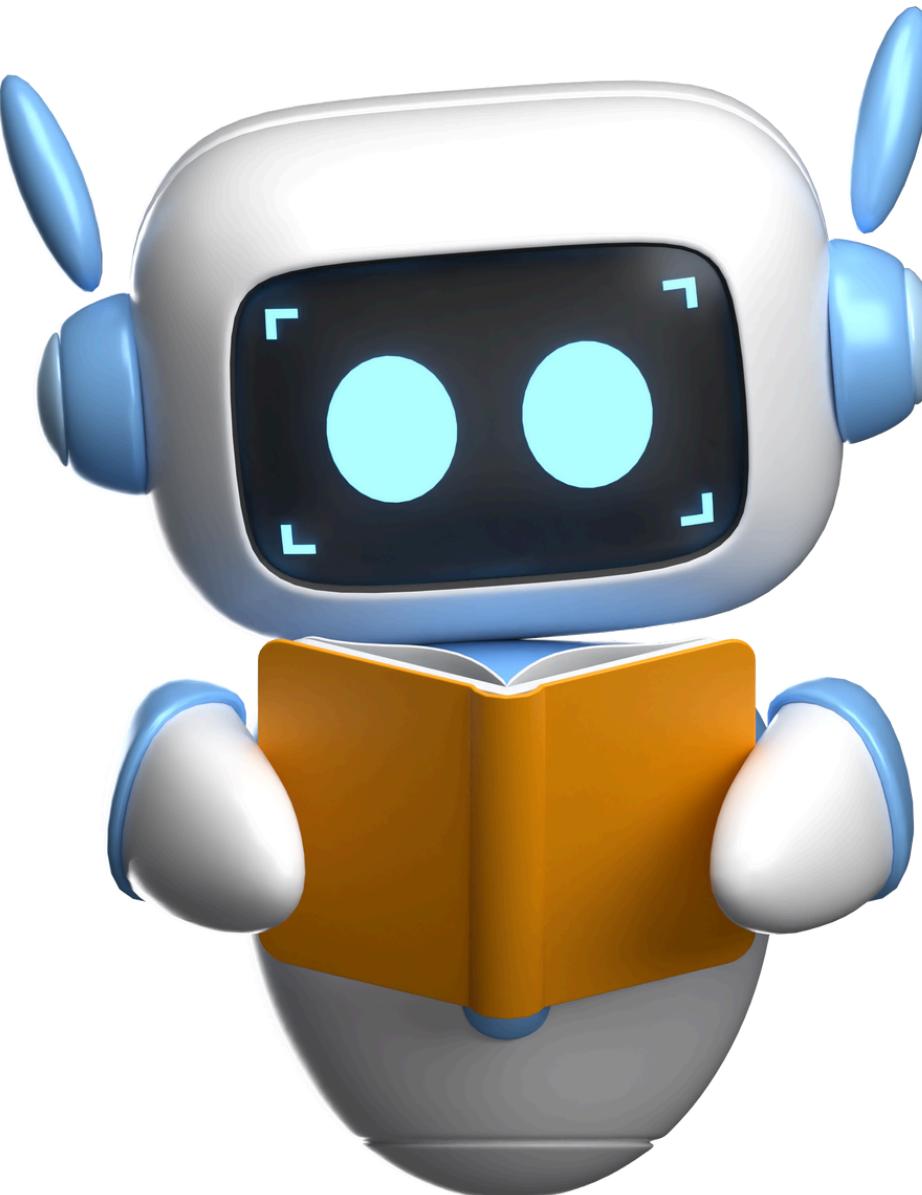
```
GET  /api/chat  Chat view  
POST /api/chat  Send message  
POST /api/chat/start-session  Start chat  
POST /api/chat/end-session  End chat
```

OrderApiController

```
GET  /api/orders           List orders  
GET  /api/orders/{id}      Order details  
PUT  /api/orders/{id}/status  Update status  
GET  /api/orders/my/latest Latest order
```

AuthApiController

```
POST /api/auth/login        User login  
POST /api/auth/register    User signup
```



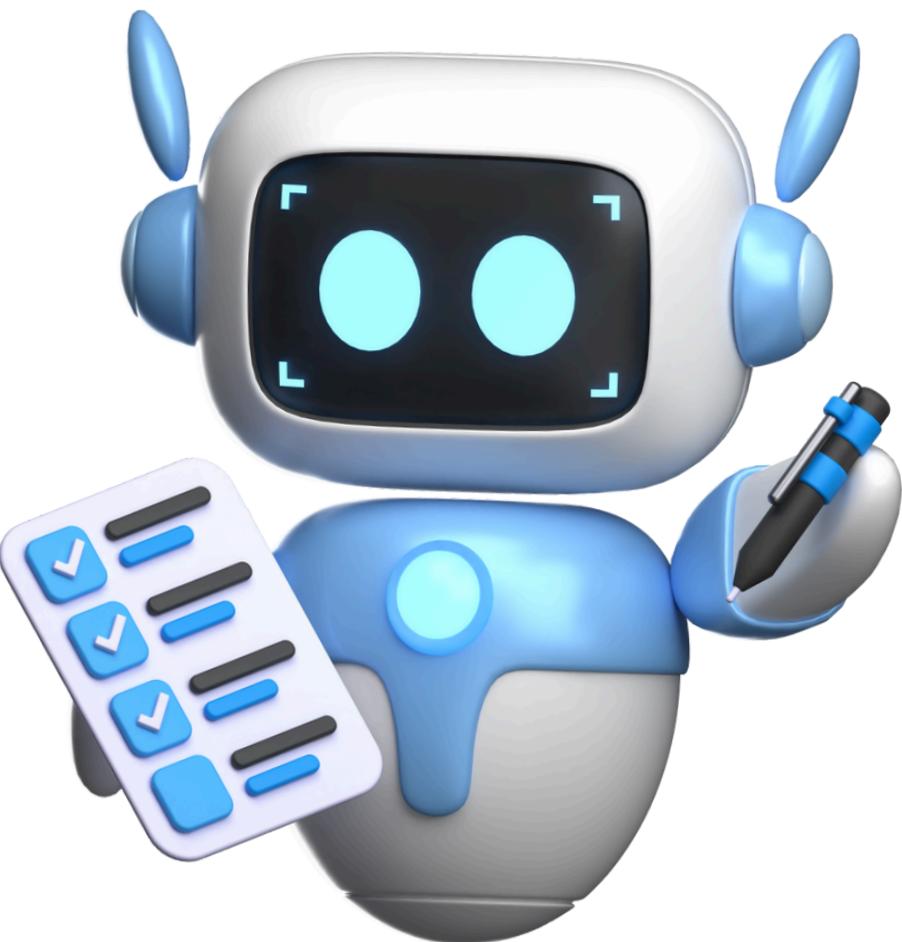
API Documentation

UserOrderController

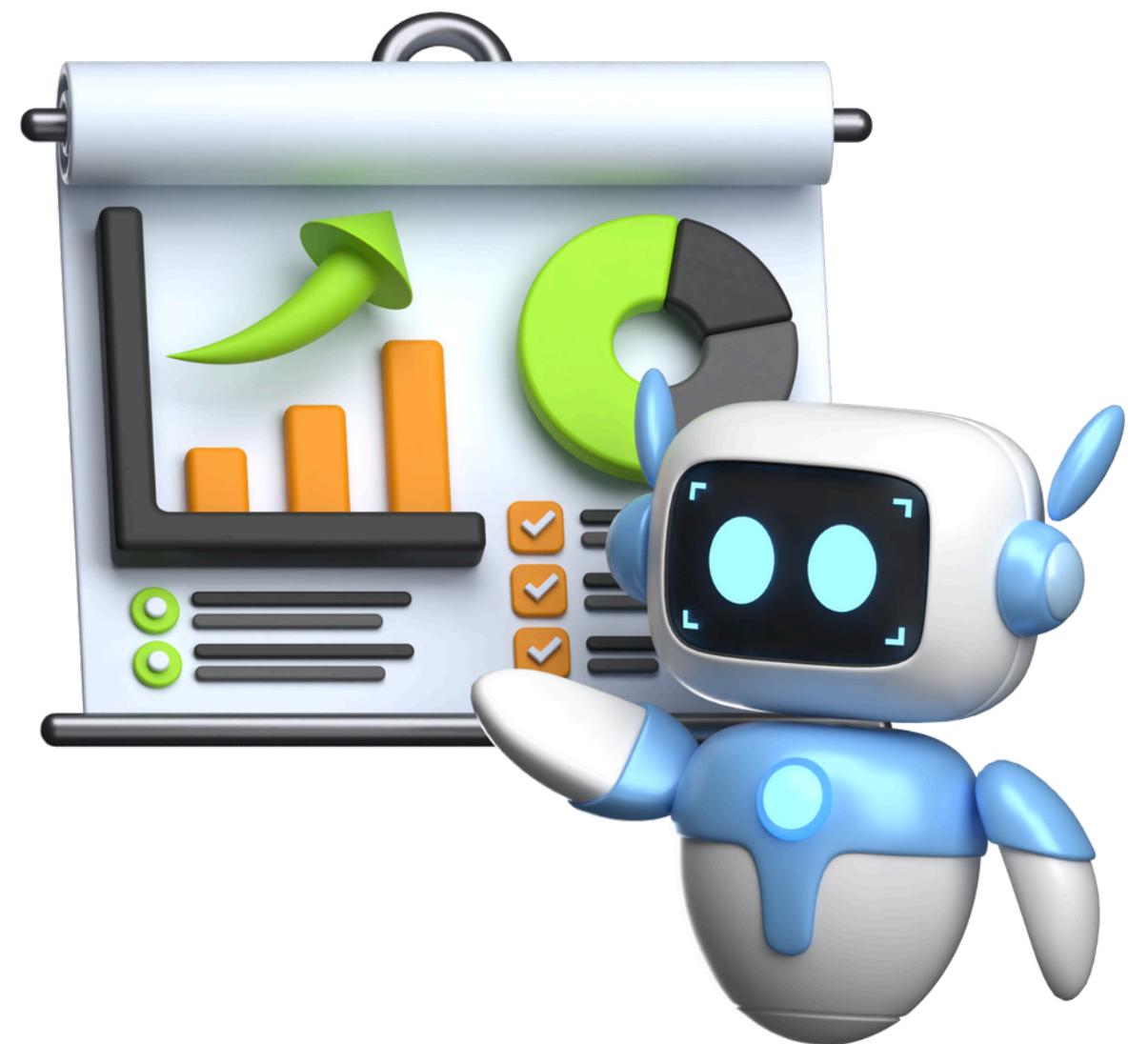
GET	/api/order/my	My orders
POST	/api/order	New order
DELETE	/api/order/{orderId}	Cancel order
POST	/api/order/add-item	Add item
GET	/api/order/delivery-fee	Delivery fee

MenuApiController

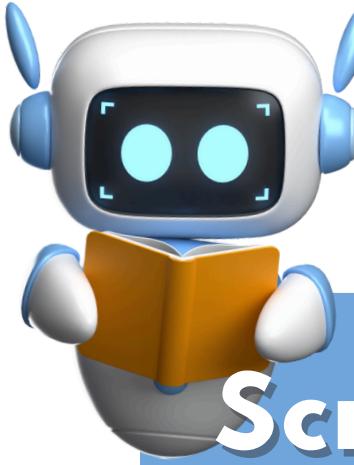
GET	/api/menu	All items
GET	/api/menu/{id}	Item details
POST	/api/menu	Add item
PUT	/api/menu/{id}	Edit item
DELETE	/api/menu/{id}	Delete item



Development Process and Team

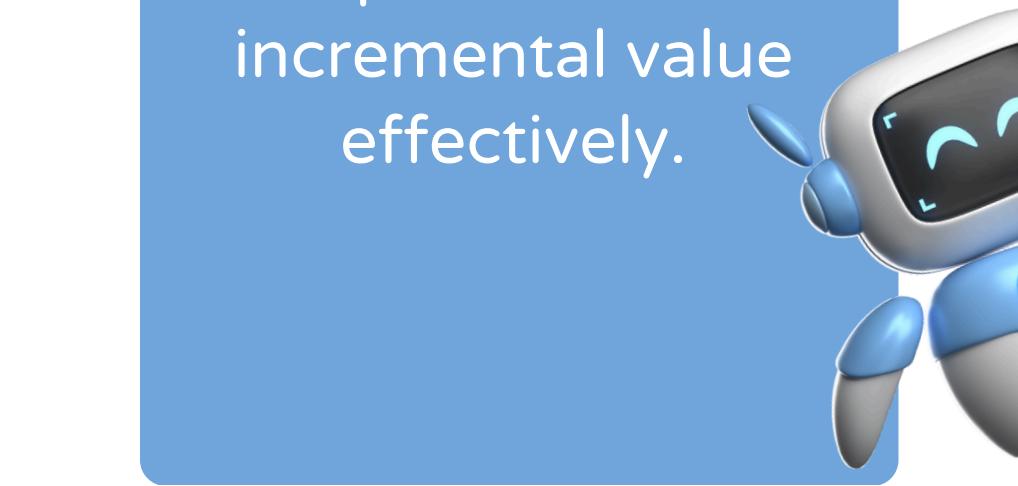


Process & Methodology



Scrum Agile Framework

The team used Scrum Agile methodology with iterative sprints to adapt and deliver incremental value effectively.



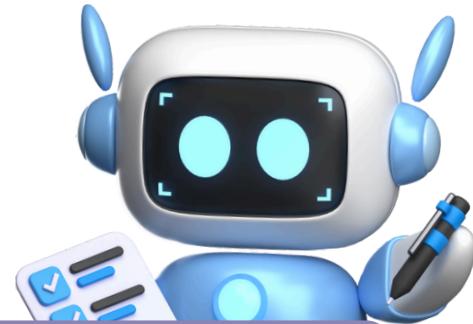
Task Tracking with Kanban

Azure DevOps Boards were utilized as a Kanban board to manage the product backlog and track sprint tasks.



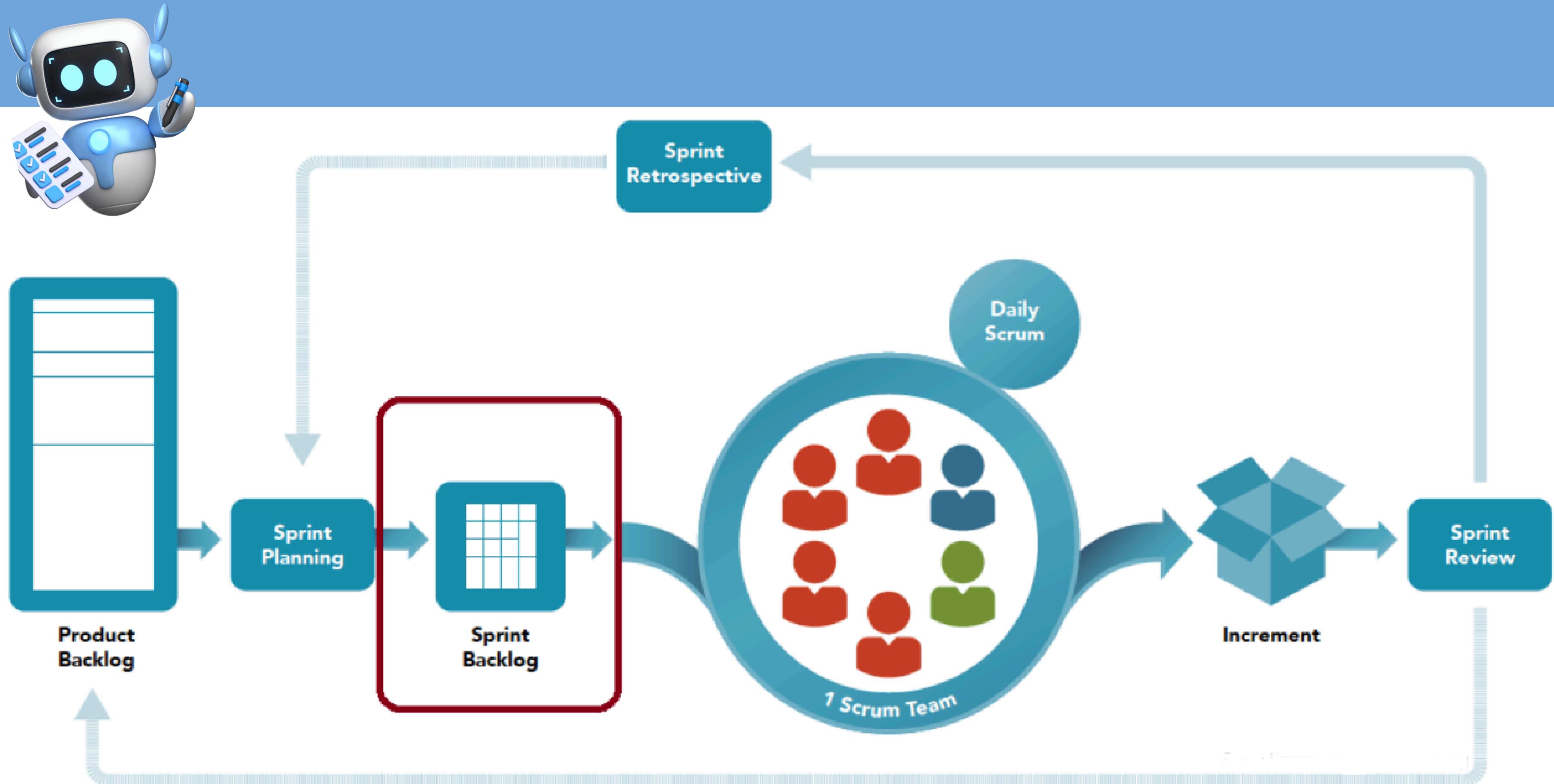
Version Control with Git

Git repositories hosted on Azure DevOps Repos ensured code integrity and fostered team collaboration.



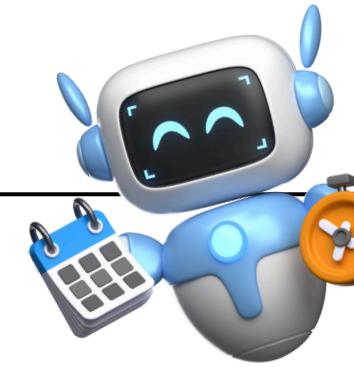
Automated Pipelines

Pipelines automated builds and deployments, streamlining development and maintaining release quality.



Calendar

July 2025



Tuesday 29

Wednesday 30

Thursday 31

Sunday 3

Monday 4

Sprint Planning
Meeting

Daily Scrum
Meeting

Daily Scrum
Meeting

Daily Scrum
Meeting

Sprint
Retrospective

Daily Scrum
Meeting

September 2025

Tuesday 2

Wednesday 3

Thursday 4

Sunday 7

Monday 8

Sprint Planning
Meeting

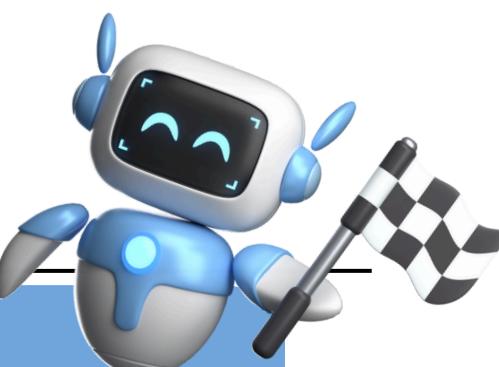
Daily Scrum
Meeting

Daily Scrum
Meeting

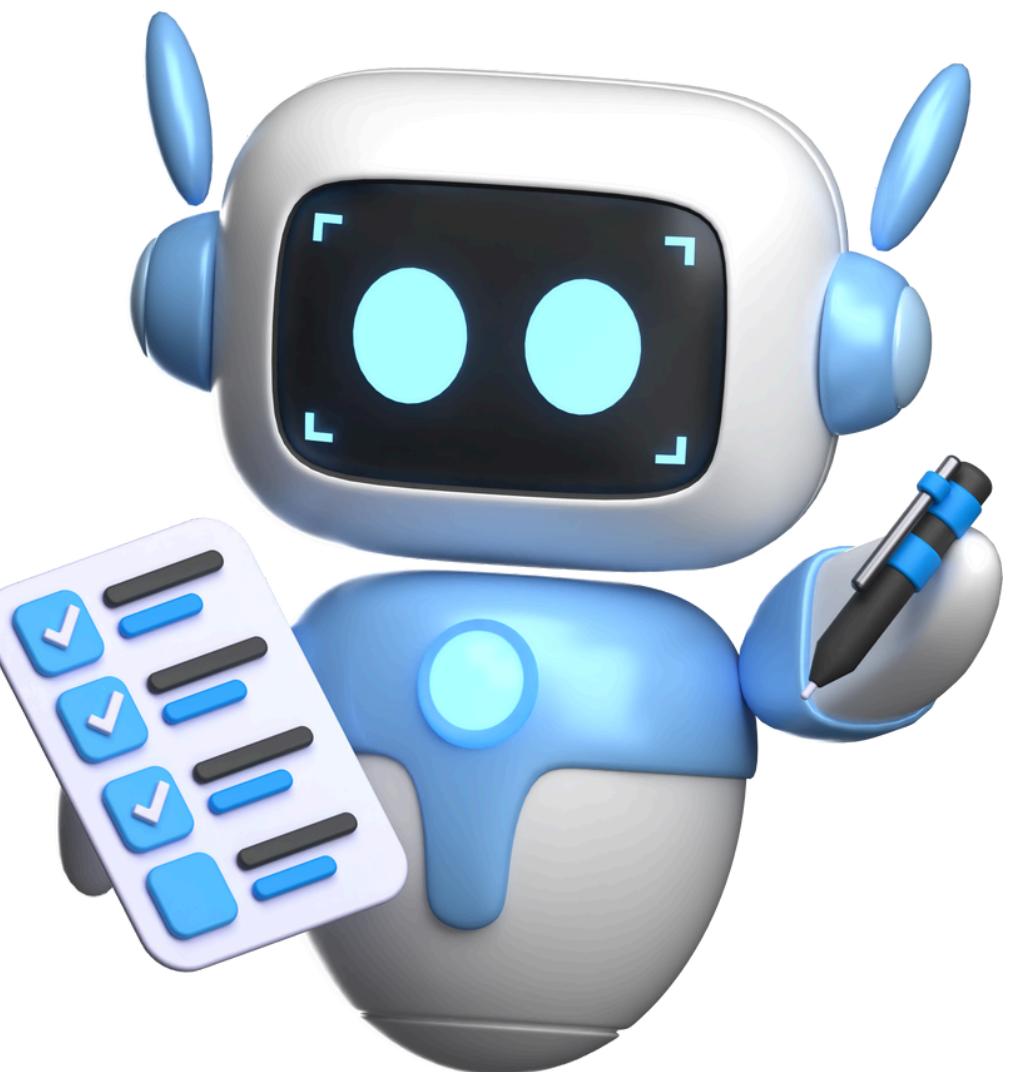
Daily Scrum
Meeting

Sprint
Retrospective

Daily Scrum
Meeting

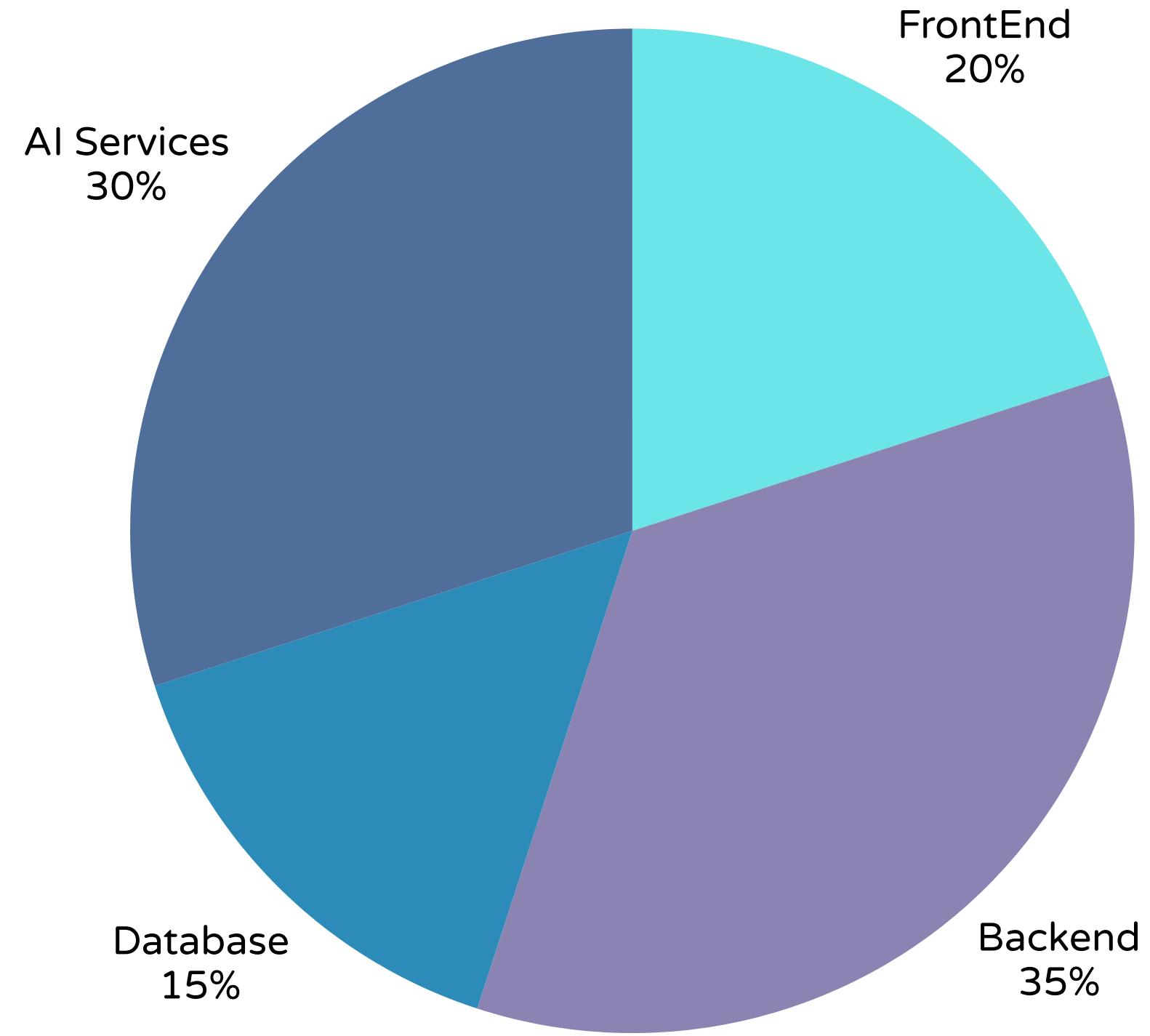


Team distribution
&
assignments
(Who)

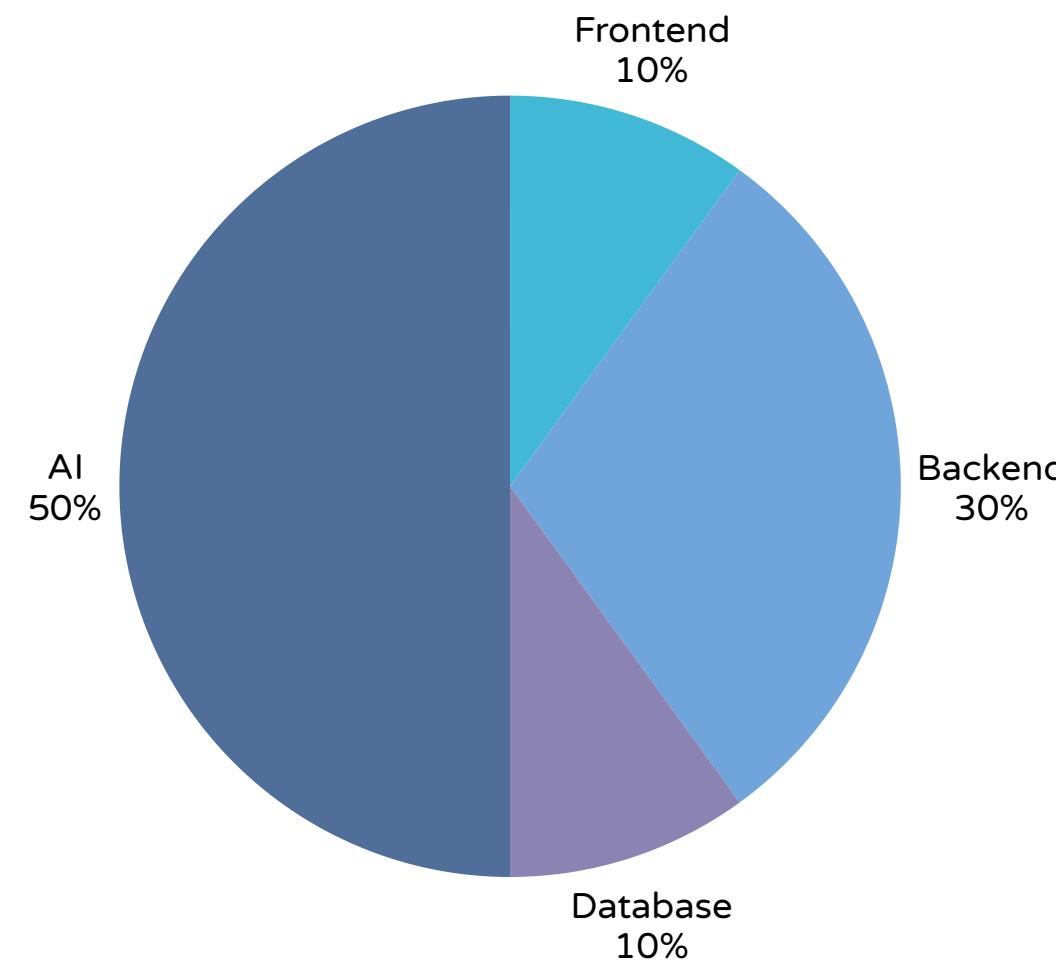




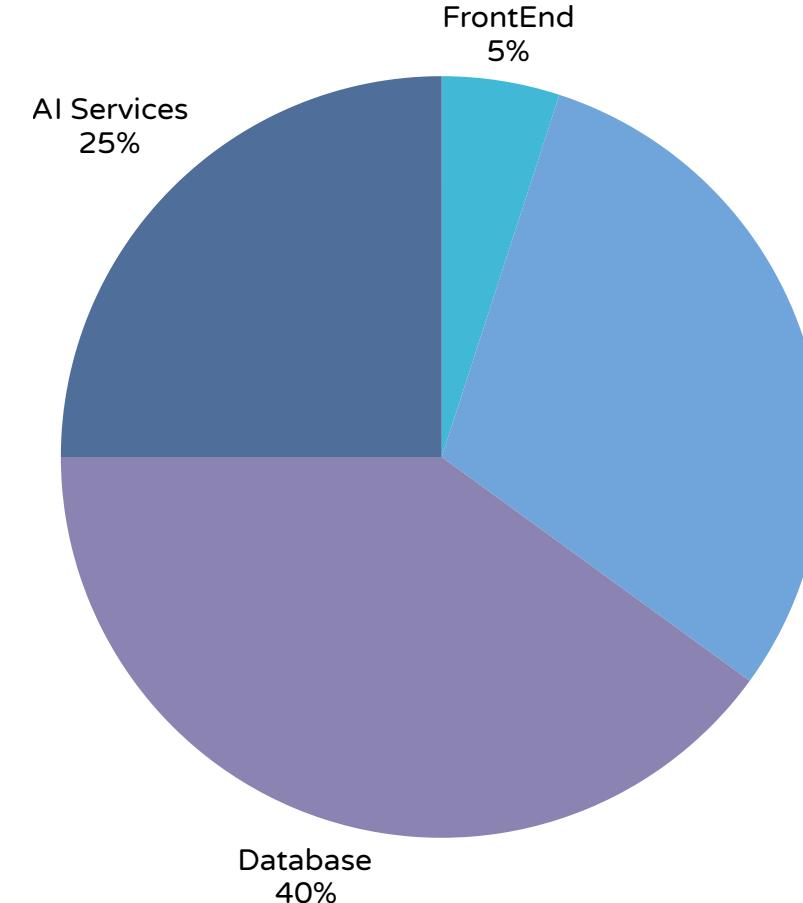
Team distribution and assignments



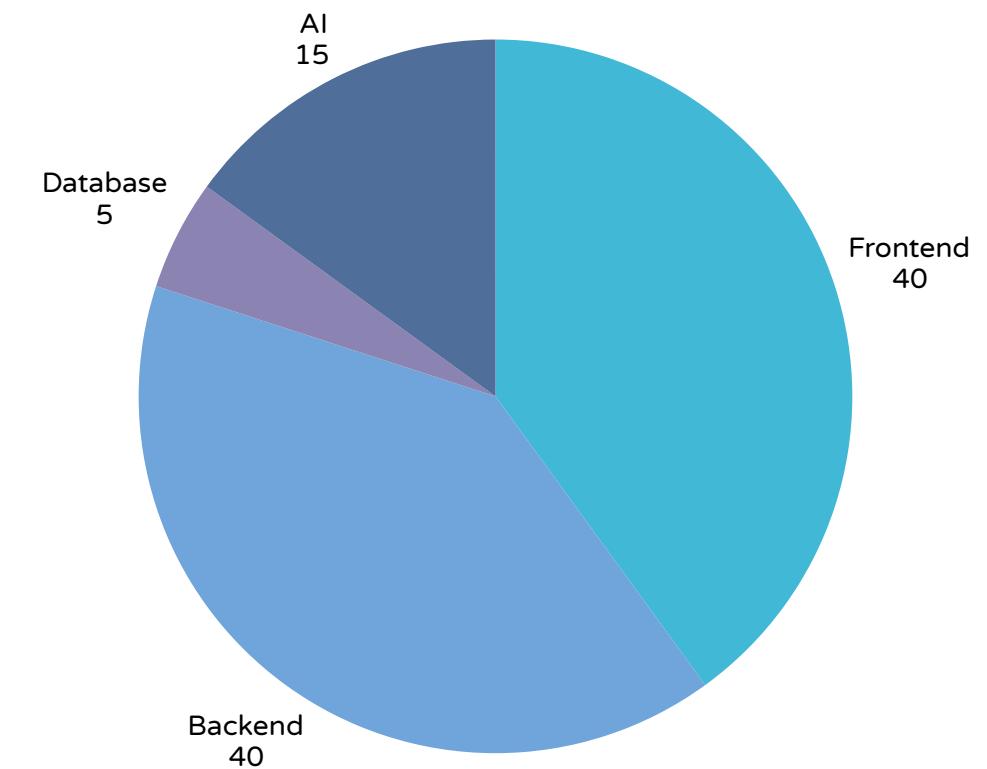
Fadi



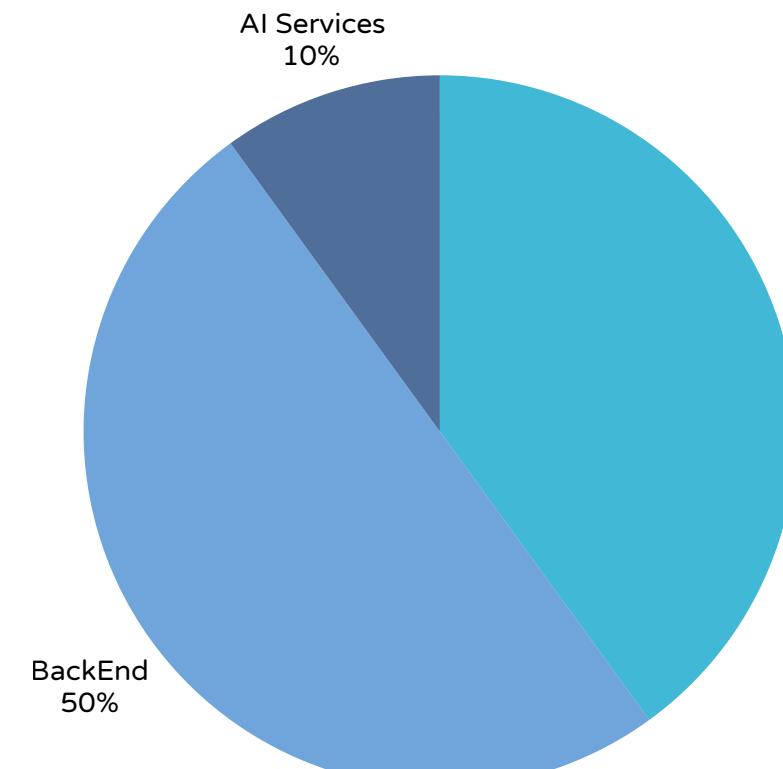
Yahya



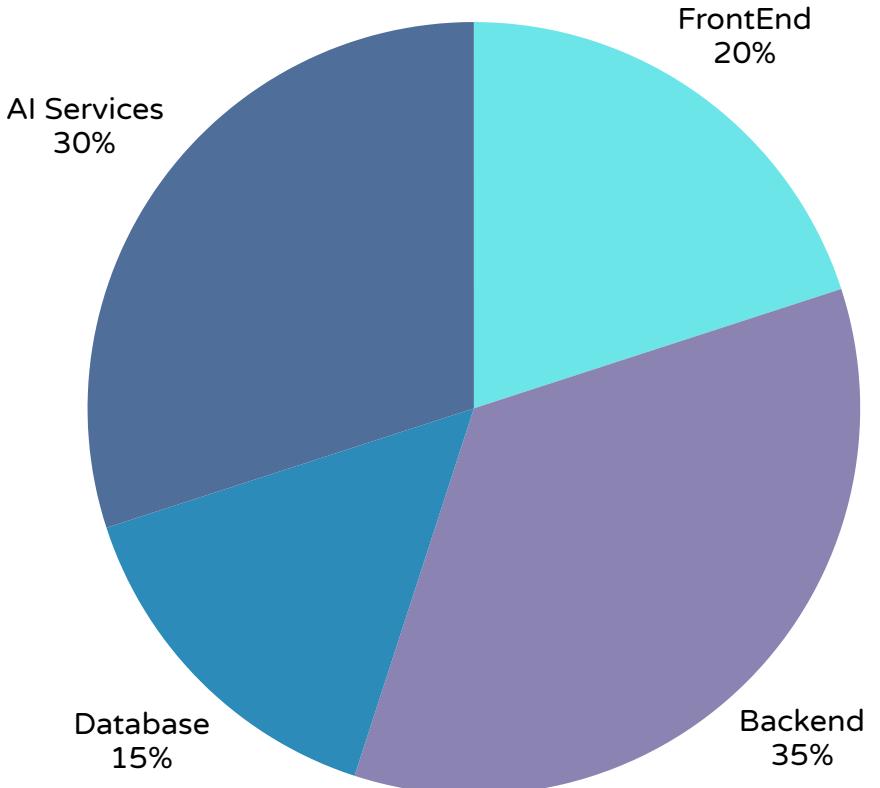
Fatima



Lina



Laith

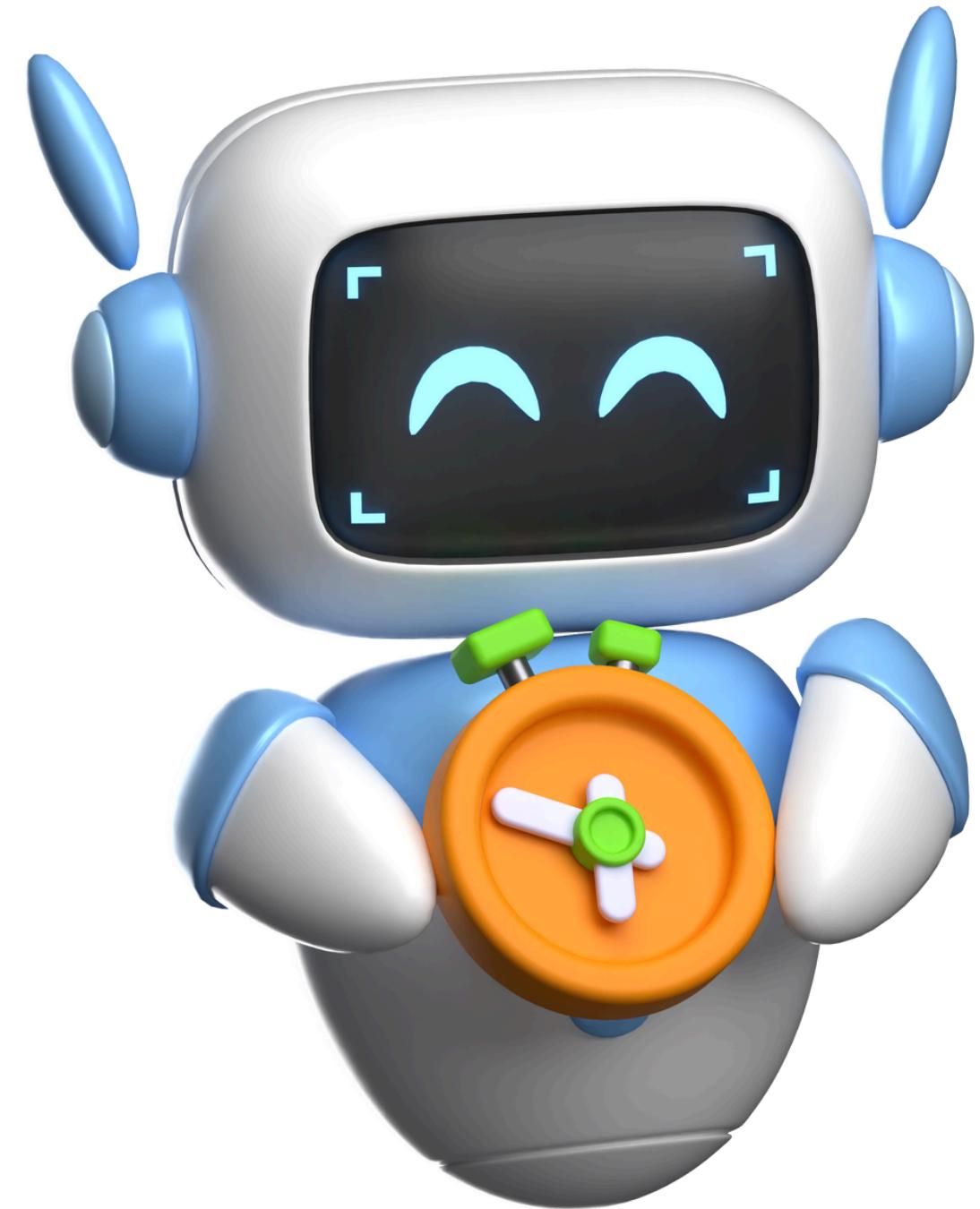




Demo

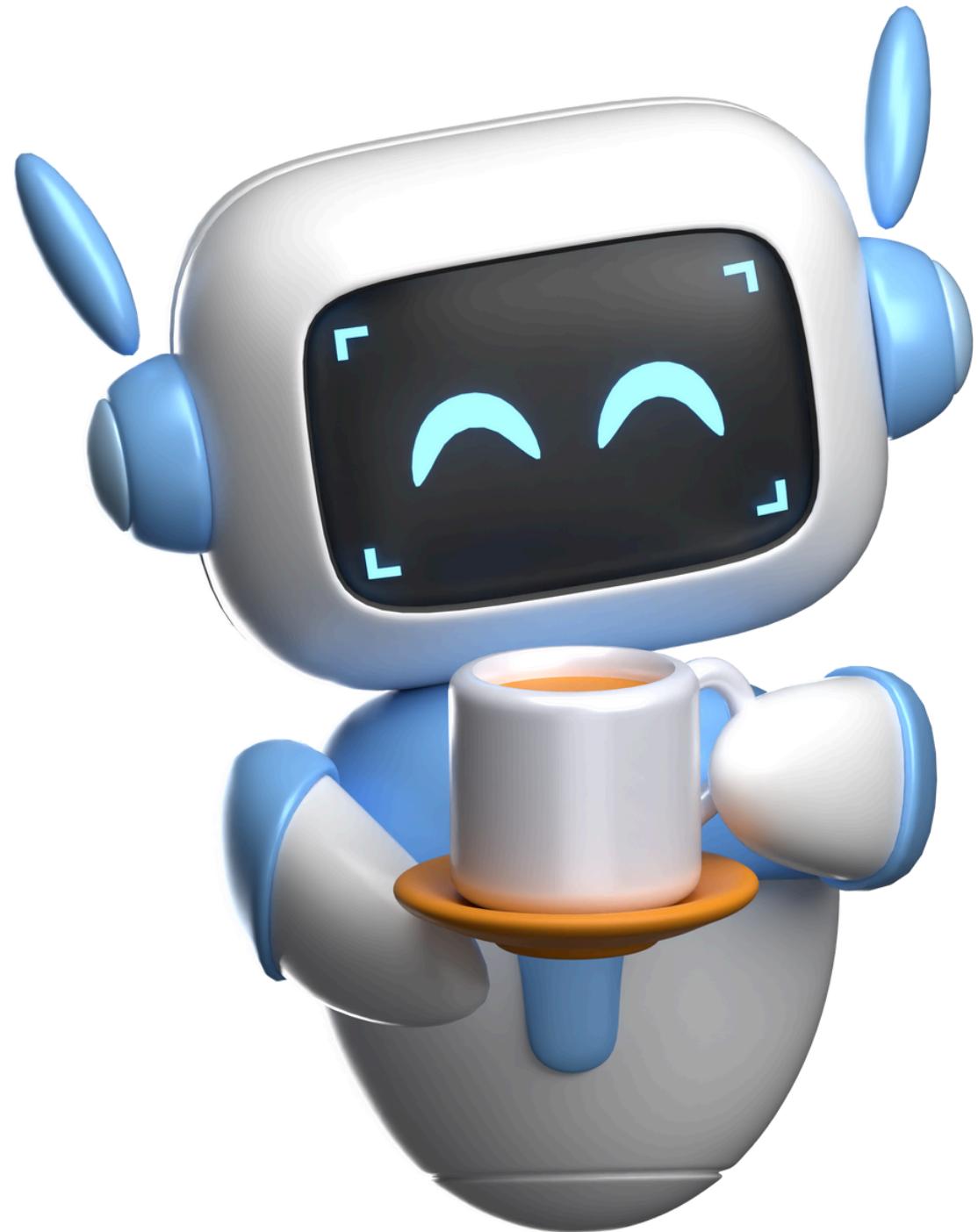
Enjoy exploring our chatbot restaurant system!

Status & Future Work

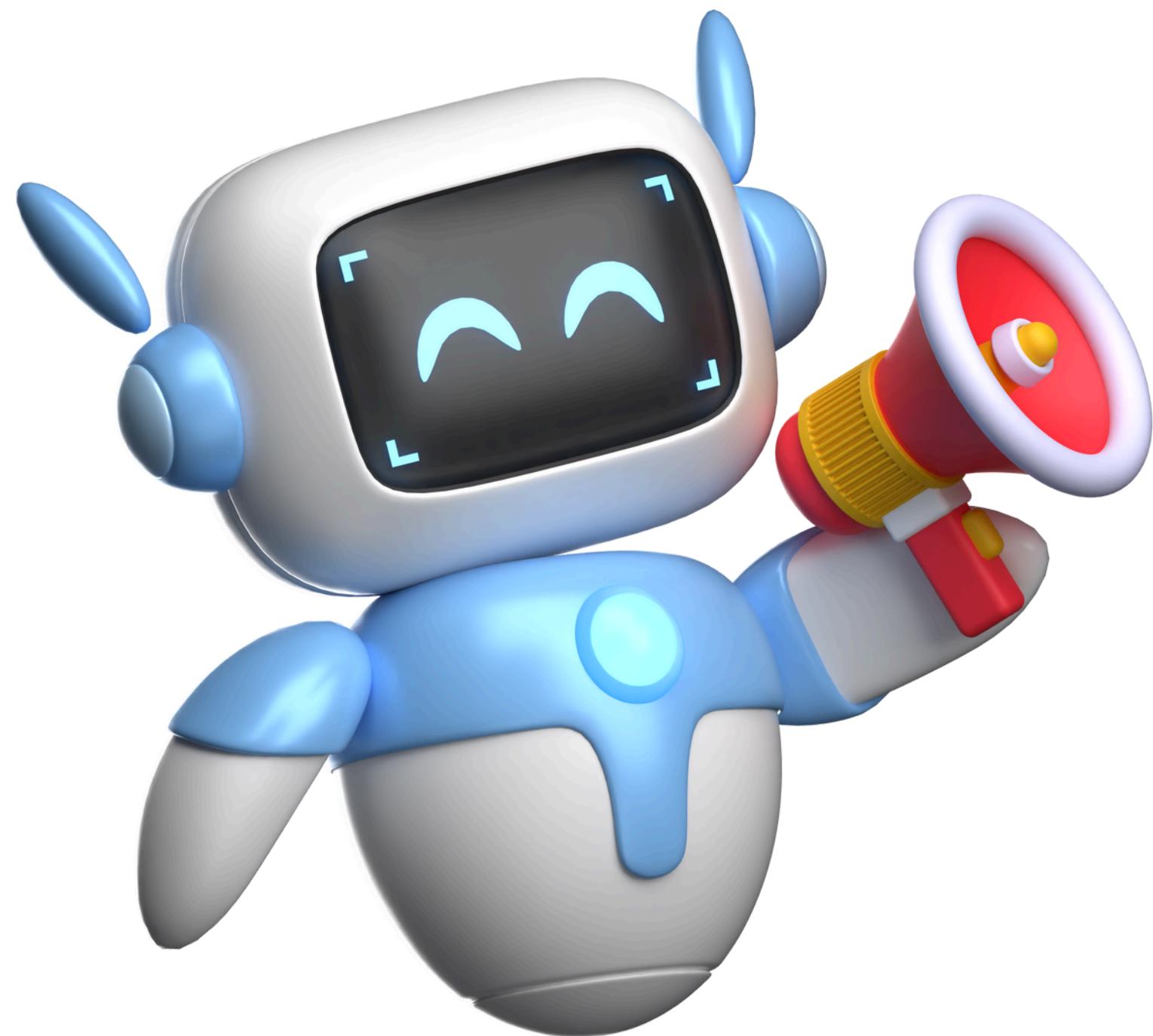


Current Status

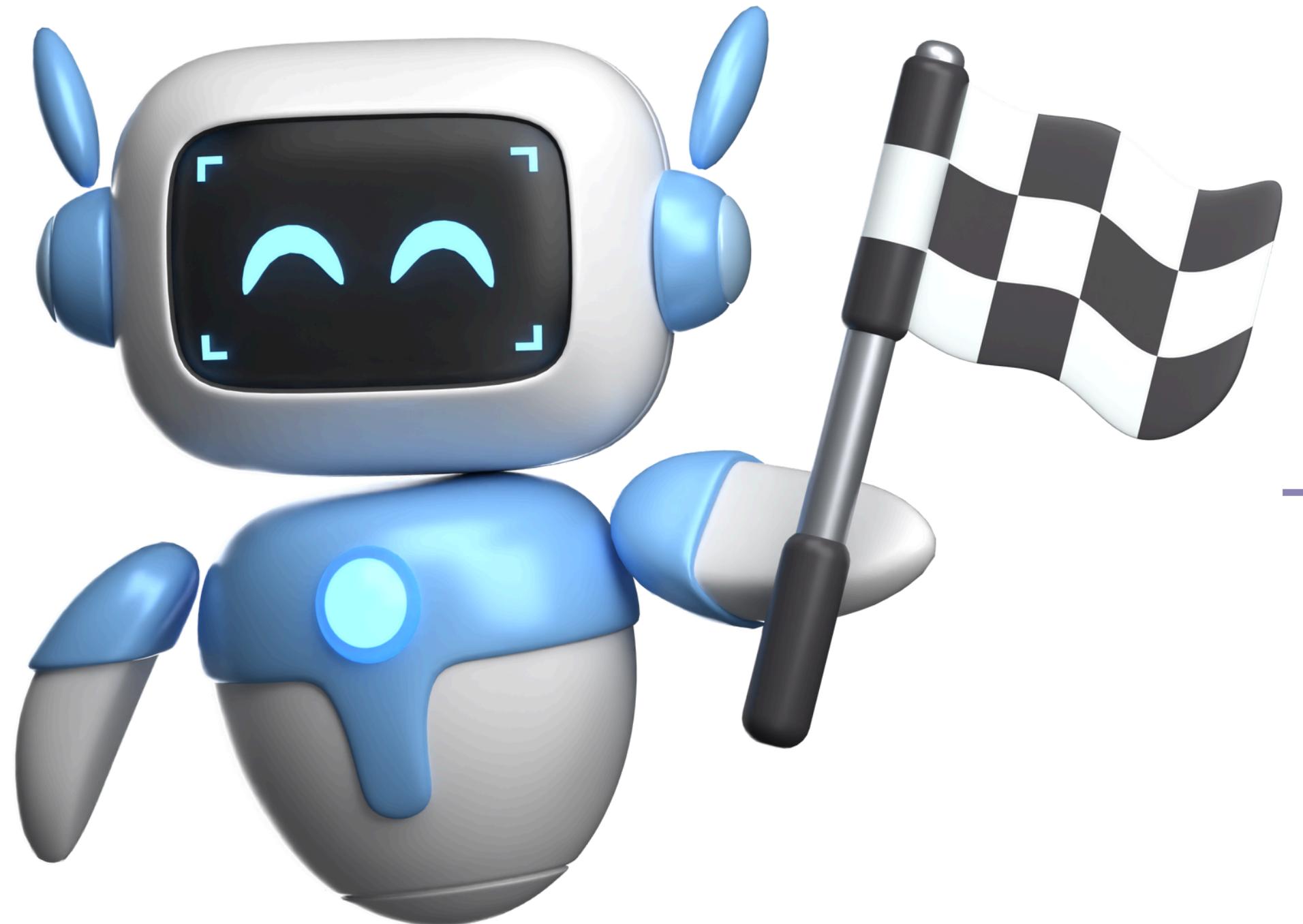
- 1 MVP features delivered
- 2 Extra features implemented
- 3 Tested with core scenarios



Future Work



- 1 Support multiple restaurants
- 2 Add online payment integration
- 3 Enable voice-based ordering



Thank You

Q\A