



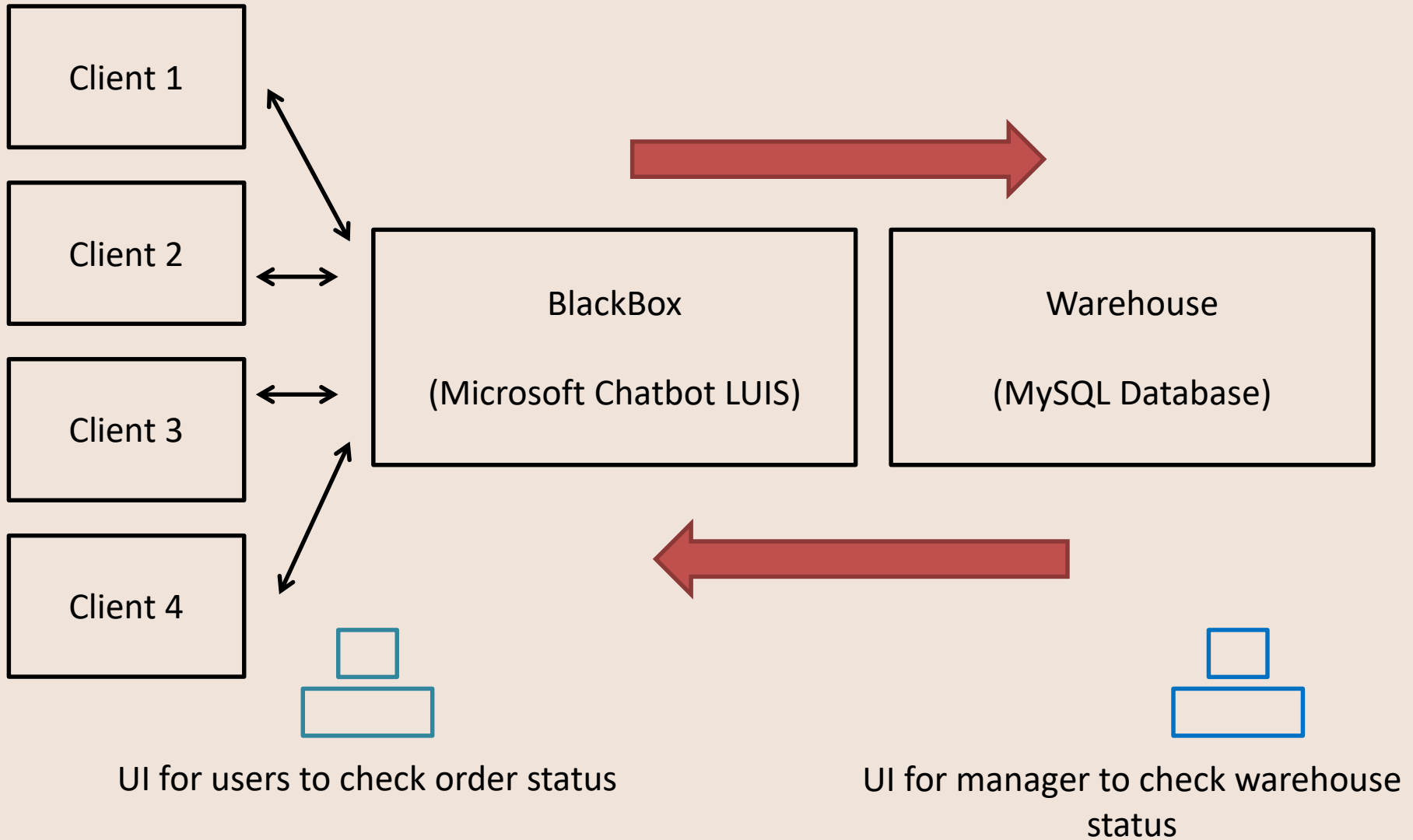
Supply Chain Digital
Transformation Hackathon

#team: gaks

Problem Statement

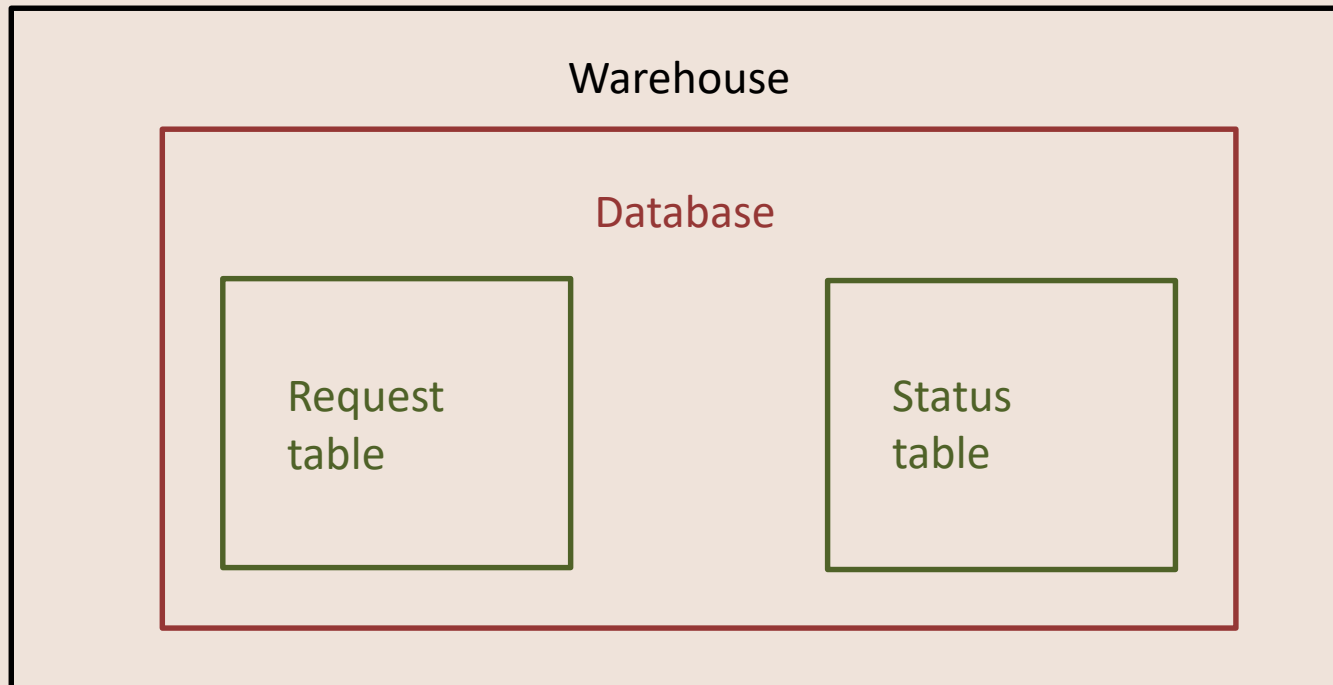
Create a smart application which can seamlessly integrate a shipper's inventory and order management system with warehouse and transportation management systems. The app should be secure, system vendor agnostic and have a user friendly interface.

System Design



Warehouse

- We have published a MySQL database on Microsoft Azure platform to store information for the warehouse



Problem ??

- Different customers different data format.
- Applications and databases are almost always customized to the needs of each and every business. How to do a proper mapping from one side to other ?

Data Inconsistencies

Client Side

Shopper ID

Buyer ID

Purchaser
ID

MM-DD-YY

DD-MM-YYYY

MM/DD/YY
YY

WMS

Customer ID

MMDDYYYY

Black Box

Created using Microsoft LUIS.

LUIS enables you to integrate language understanding into your application, without having to worry about complex machine learning models.





File from
Client



WMS Tables
updated



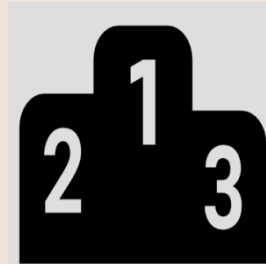
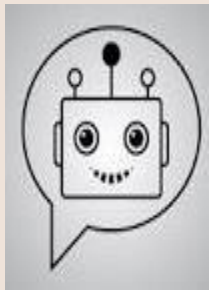
LUIS Service



Top Scoring
Entities



Generation of
Consistent
Data



Different names for the same product

Kirkland **Purified**
water bottle

Kirkland **Signature** water

Clear Kirkland
water cold

Kirkland
Water

**Picking up common
attributes**

Additional Features

Order

>

Stock



**Resolve
the issue !!**

User Interface

- Secure and accessible website hosted on Azure's cloud services
- Easy to use design
- Real-time data tracking for no delays
- Designed for collaboration between warehouses and clients
- Potential for complex data analytics

Sample Screenshot

Launch Page

Incoming Requests

All Products

Incoming Requests

| Item No. | Item Name | User No. | Status |
|----------|---------------|----------|----------------|
| 1 | KirklandWater | 12 | ● Approved |
| 2 | smartwater | 11 | ● Not Approved |
| 3 | ChipsAhoy | 10 | ● Approved |
| 1 | KirklandWater | 12 | ● Approved |
| 4 | saltines | 11 | ● Approved |
| 1 | KirklandWater | 12 | ● Approved |
| 2 | smartwater | 11 | ● Not Approved |
| 3 | ChipsAhoy | 10 | ● Approved |
| 1 | KirklandWater | 12 | ● Approved |
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Clients can resolve Not Approved products by notifying the shipper in real time

Not Approved: Items that are out of stock or otherwise unavailable.

Status: Can be determined by system of Warehouse manager and client

Volume of Requests

Further Capabilities

- We can train the system to recognize tables that would allow for integration of more warehouses easily without any human intervention.

More training = More accuracy

Thank You

