INB374
Slightly Overpriced Appliances

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Description

We have implemented a basic POS system for the Slightly Overpriced Appliances store.

The system allows for the addition of customers to the POS system, and for the ordering of various products.

Orders are assigned to customers via a unique customer number, assigned at the time of creation in the POS system.

The user of the system takes the roll of a sales person, interacting with the customer to ascertain their needs, in order to complete a sale. Small items are kept at the store which allow for the customer to take the item at the time of payment.
Larger items are kept at the warehouse, and as such are required to be delivered. Should an item be out of stock at the warehouse, the warehouse will make contact with the supplier in order to request new stock.

Should the customer accept the delivery time, the sale is processed and the delivery will be made at the pre-arranged date.

URL & Client Name

Service Repository:

http://fastapps04.qut.edu.au/n8571520/Repo/index.html

Client:

SOA.exe

Slightly Overpriced Appliances
Logically Layered Architecture Diagram

Enterprise Layer

Desktop POS Client

Intermediary Layer

Customer Addition Process

Order process

Basic Layer

Customer

Order

Warehouse
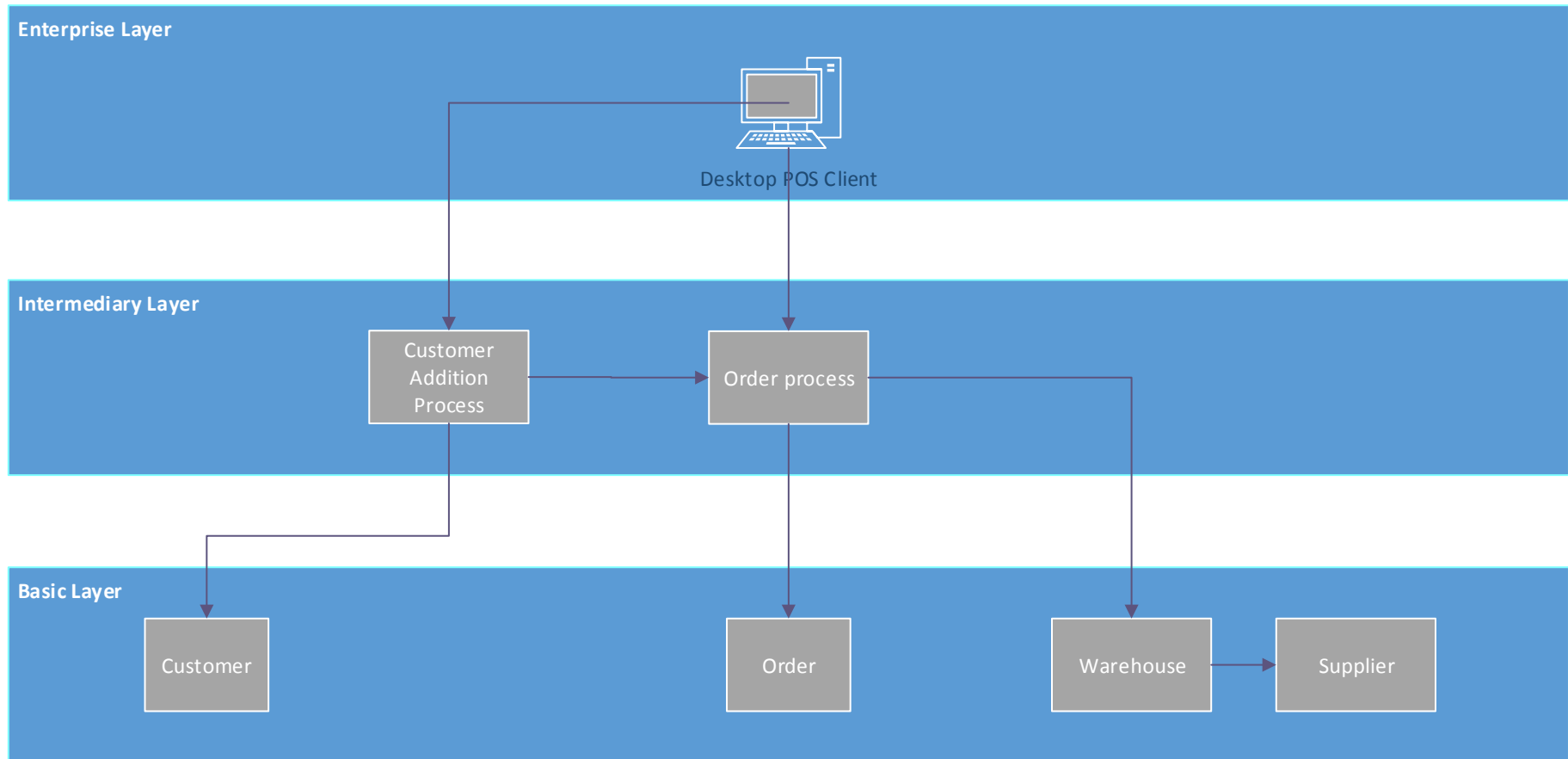
Supplier

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Level 0 Interaction Diagram

Contact

Sales

Order

Customer

Check Stock

Supplier ← Order ← Warehouse

Deliver

Ship To
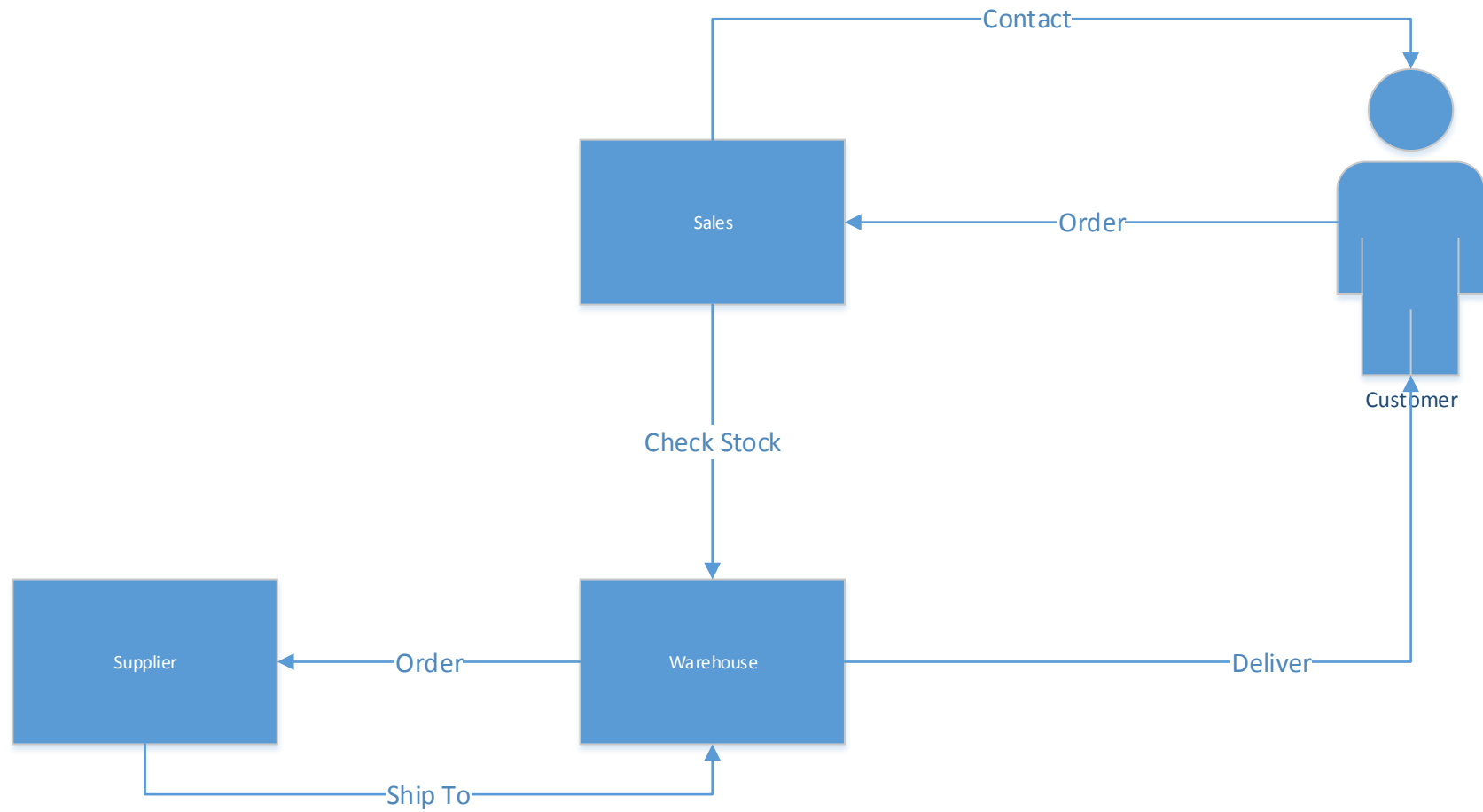
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Sales Level 1 Interaction Diagram

Update Order

4. Store Customer Details

6. Product Wait Times, and Availability

POS Client

3. Enter Details

Add Order Details

5. Show Product

1. Contact

7. Order/ Cancel Transaction

2. Request Details

Warehouse

Order

Sales

Customer

Out Of Stock Wait Times
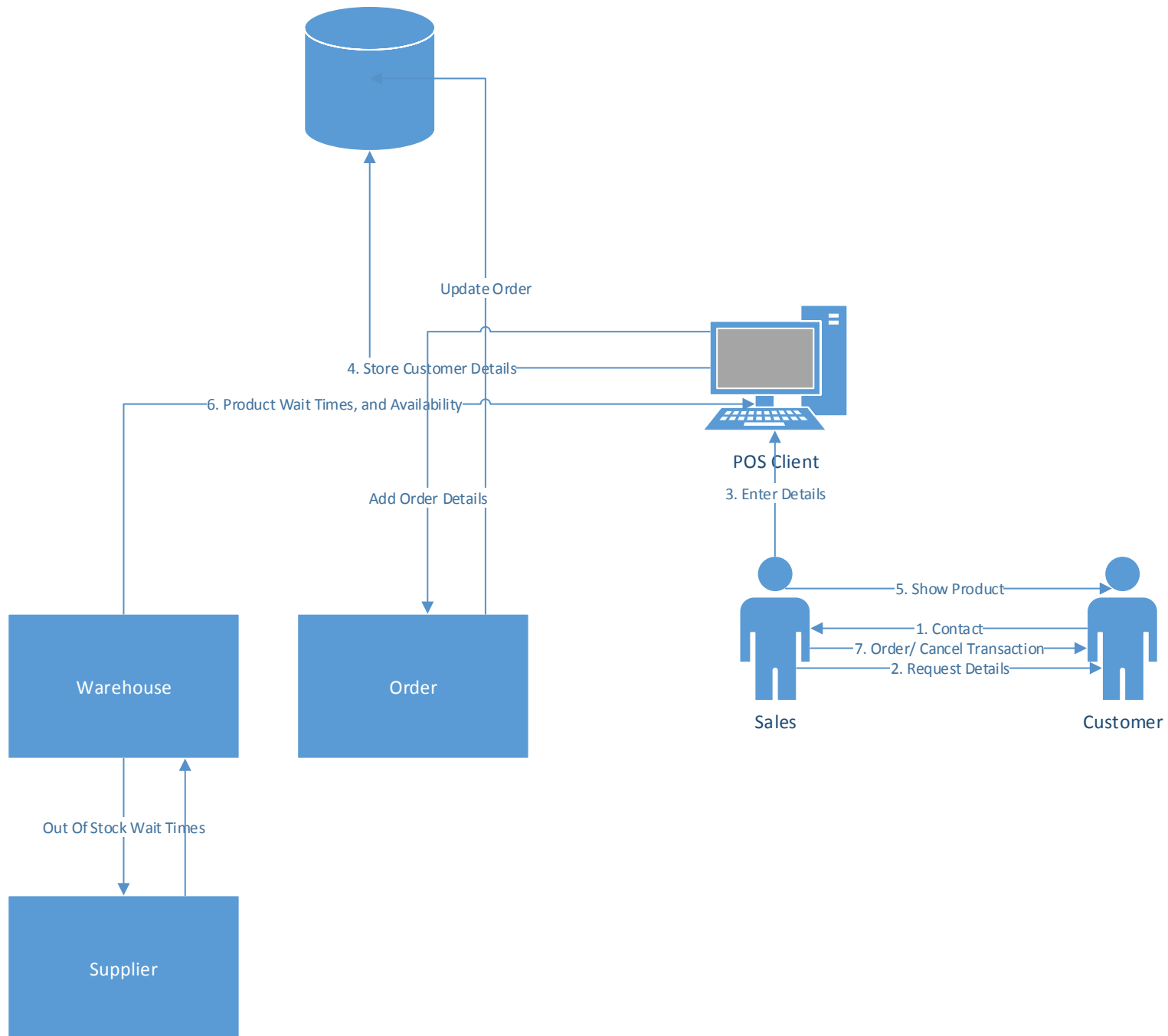
Supplier

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Supplier Level 1 Interaction Diagram

Update Stock

Request More Stock

List Of Products

Wait Times

Shipement of Required Stock

Warehouse Service

Client

Supplier Service
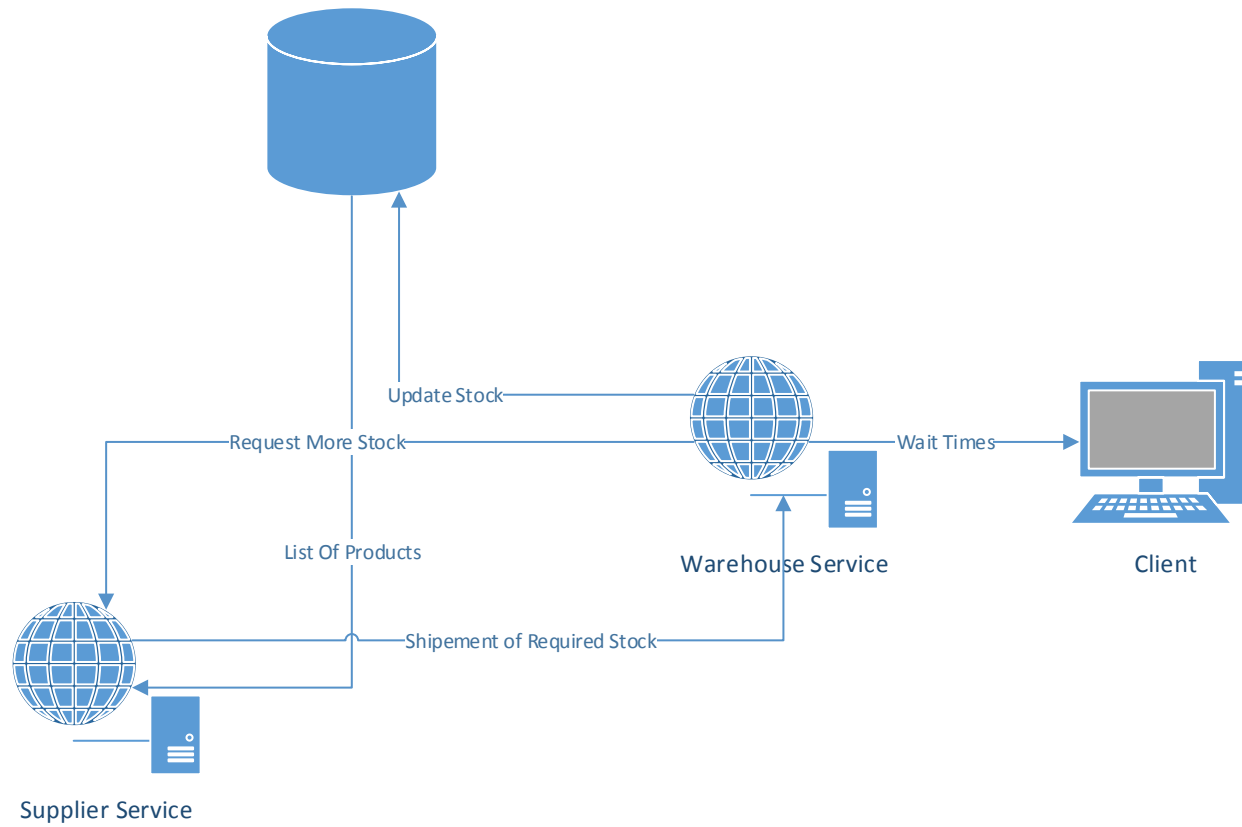
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Warehouse Level 1 Interaction Diagram

Update Stock

Rest Services

Product List

Client

Supplier Wait Times
If Out of Stock

Wait Times

Send Stock

Warehouse
Service

Deliver

Request Stock

Supplier
Service
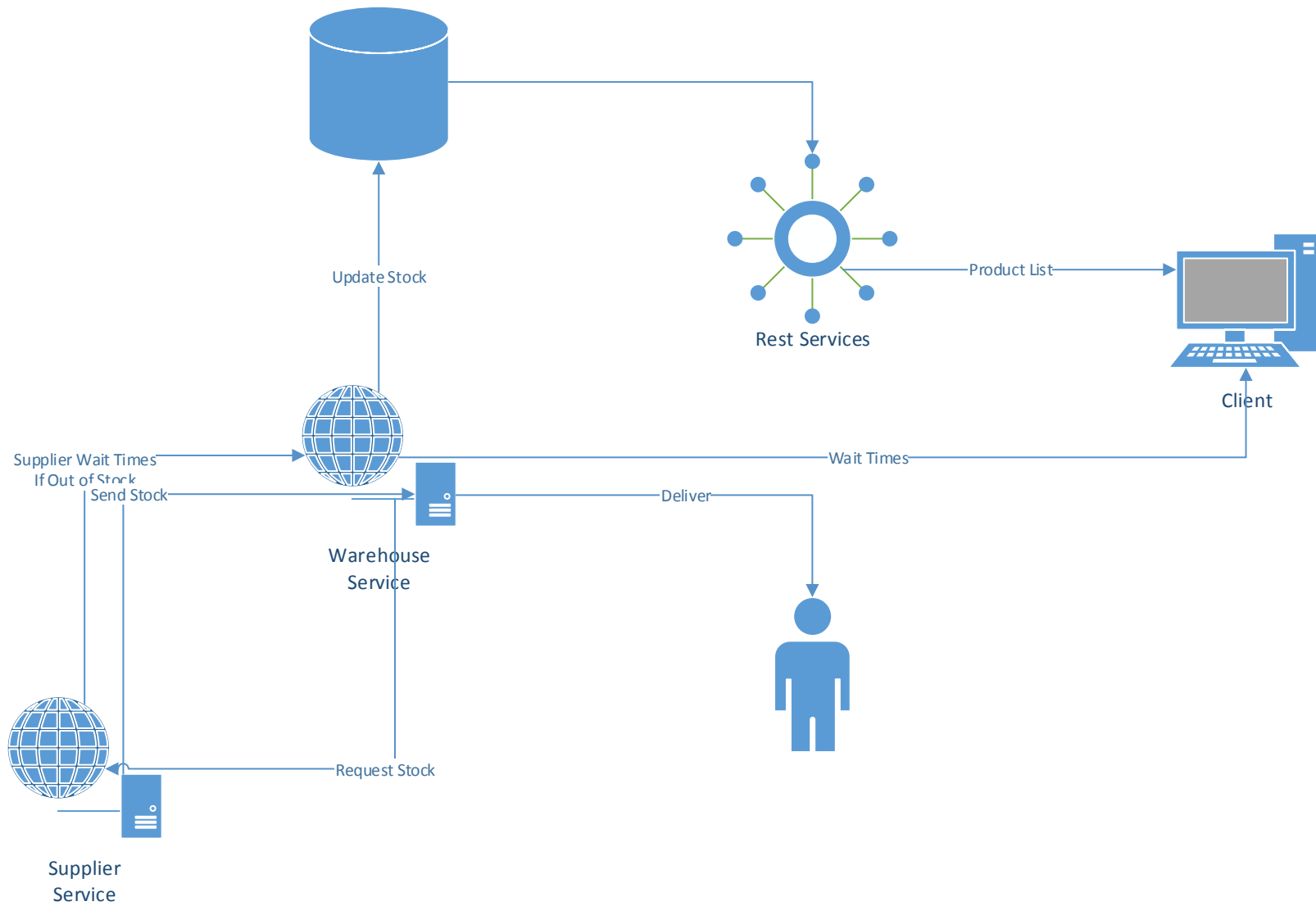
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Choreography Model

Customer	Sales	Order	Warehouse	Supplier

Contact
[Give details to Sales]

Add Customer
[postCustomerXML]

Request Order

Request Products
[makeProductResponse]

[All Products in Stock]

Request New Products
[orderStock]

Send Stock
[sendStock]

[Some/No Products in Stock]

Delivery Time Acceptable

Create Order

Delivery Time Unacceptable

Wait Time
[getWaitTime]

Wait Time
[getSupplierWaitTime]

[Accept Order]
[addOrder]

[Product Not In Stock]

Accept Delivery

[Cancel Order]

Delivery

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Deployment Diagram

http://
fastapps04.qut.edu.au/

https://fastws.qut.edu.au/

n8510873
http://
fastws.qut.edu.au:3306

http://
fastapps04.qut.edu.au/
n8510873/supplierService/
supplierWebService.asmx

http://
fastapps04.qut.edu.au/
n8510873/orderService/
orderWebService.asmx

n8410873CustomerDB

https://fastws.qut.edu.au:8080/n8510873CustomerDB/
webresources/entities.orderdetails

http://fastws.qut.edu.au:8080/n8510873CustomerDB/
webresources/entities.orders

http://fastws.qut.edu.au:8080/n8510873CustomerDB/
webresources/entities.customers

http://fastws.qut.edu.au:8080/n8510873CustomerDB/
webresources/entities.products

Client

http://
fastapps04.qut.edu.au/
n8510873/warehouseService/
warehouseWebService.asmx

Rest End Points