



Misr University for Science & Technology

College of Information Technology

Computer Science Department

IS321

Project Title: IKEA System

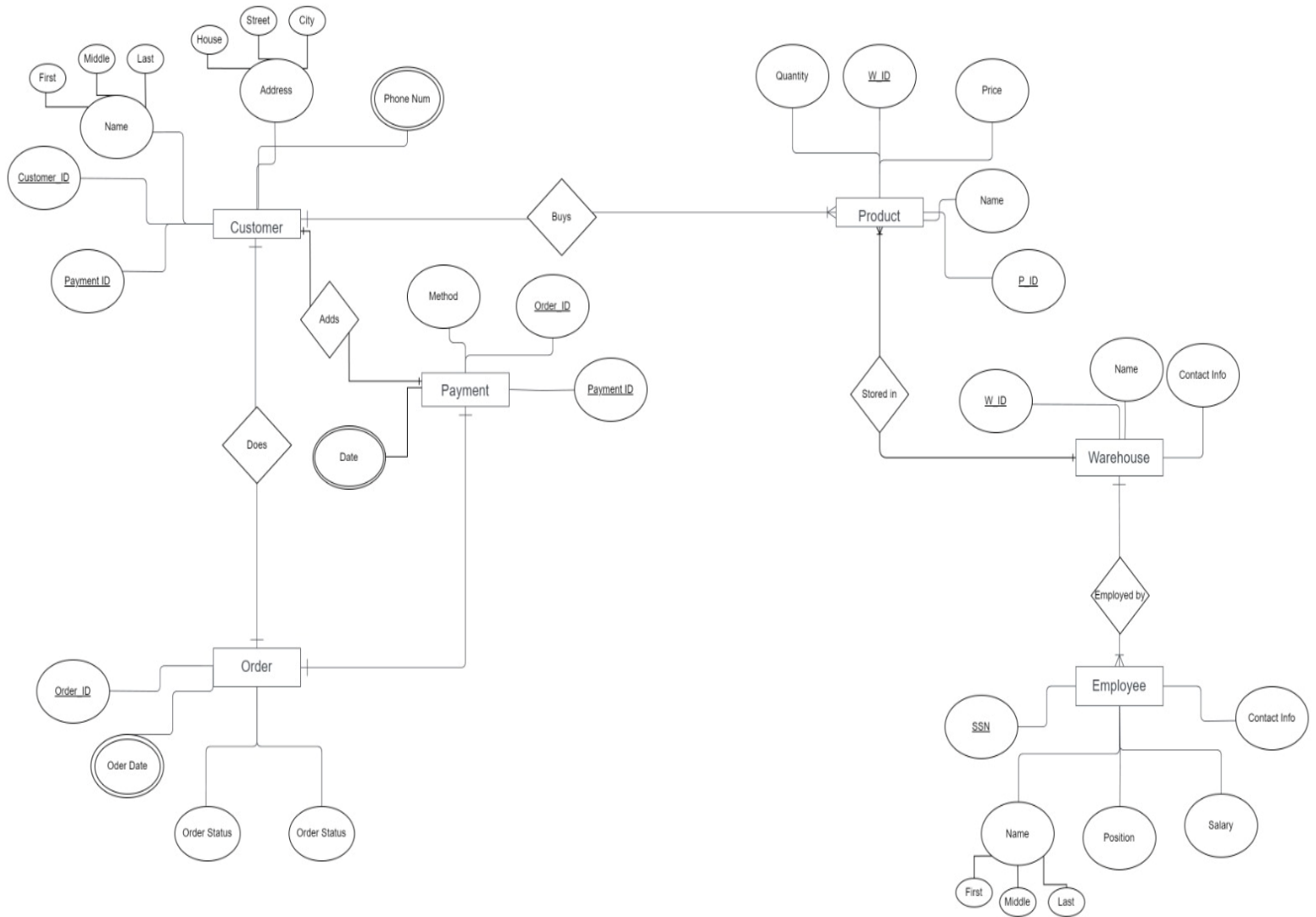
Team Members

Ezz El-din Ayman 200018924

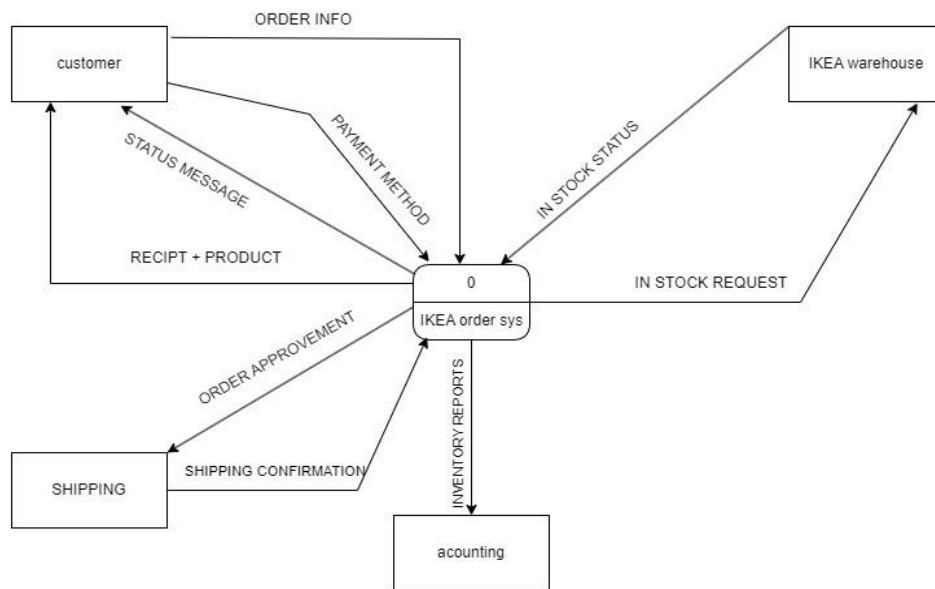
Mohamed Tarek El Sangary 200010304

Eslam Eed Ahmed 200016659

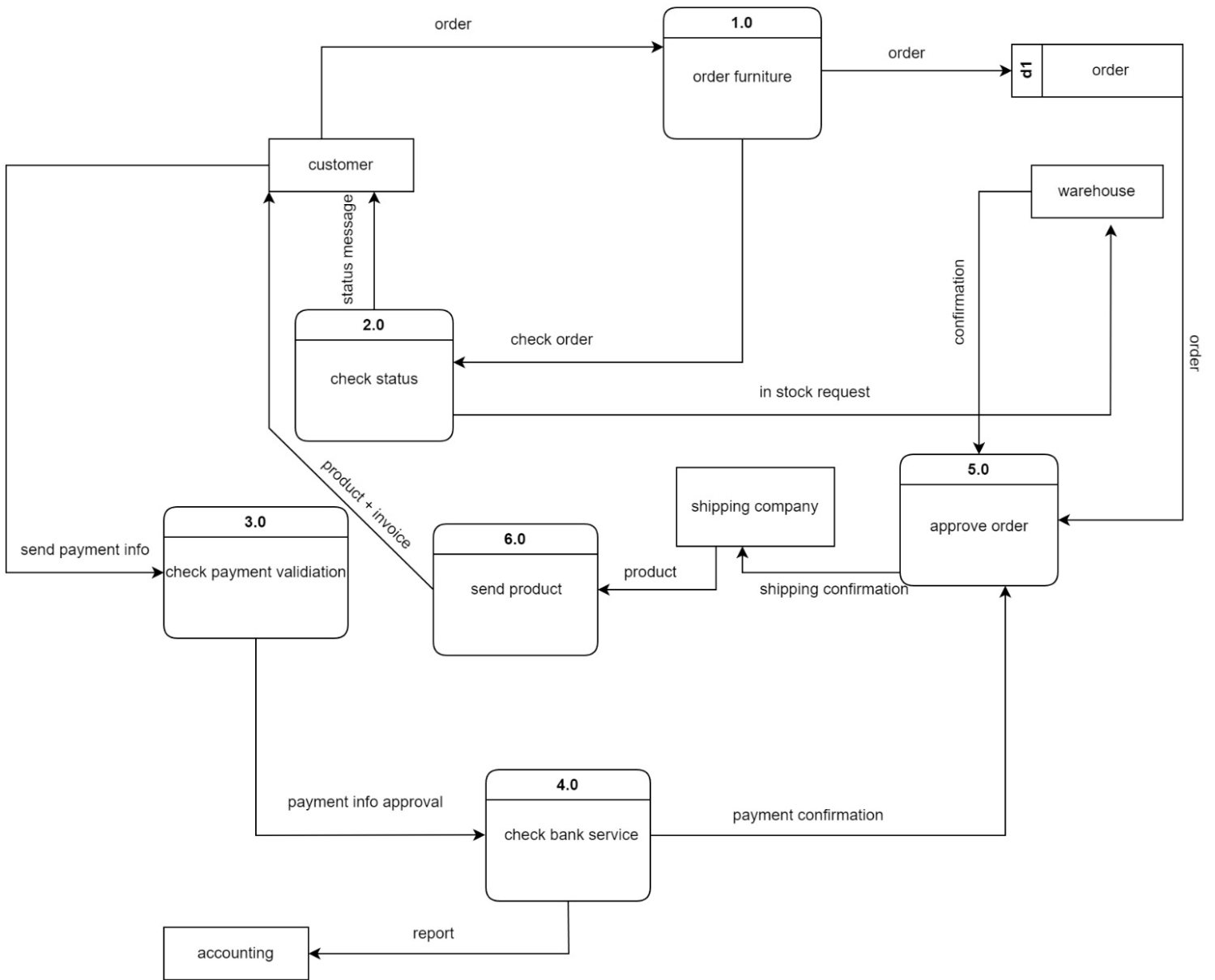
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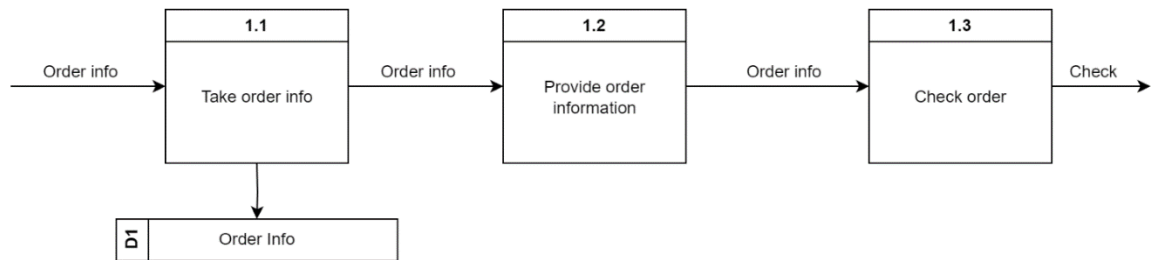
CONTEXT DIAGRAM

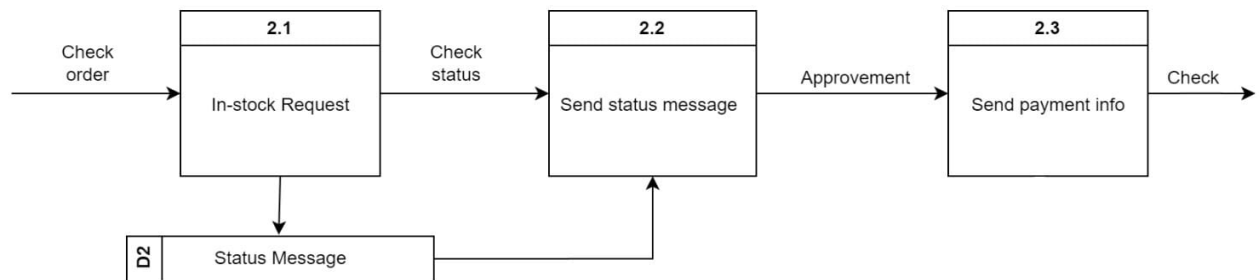


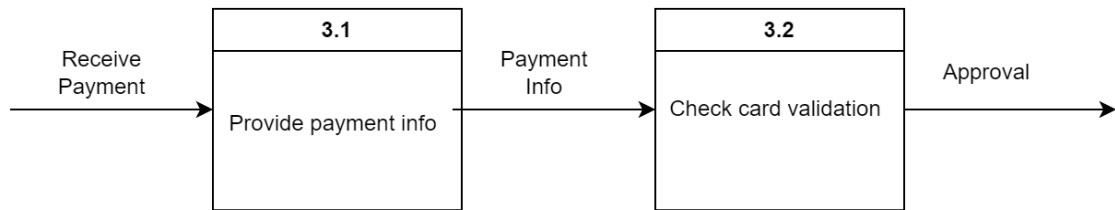
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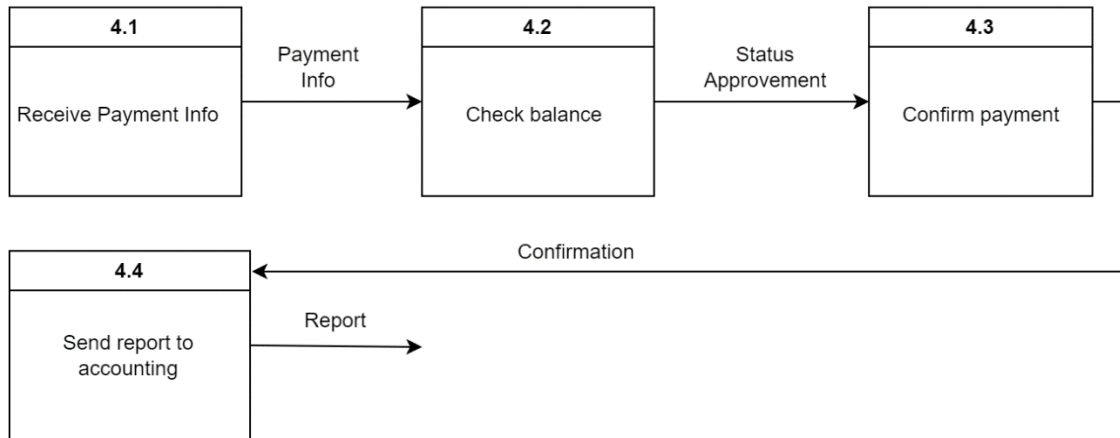


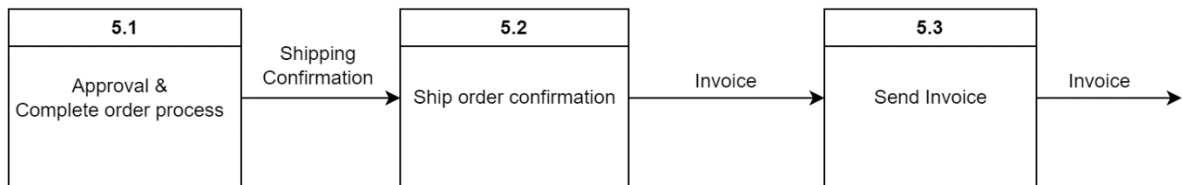
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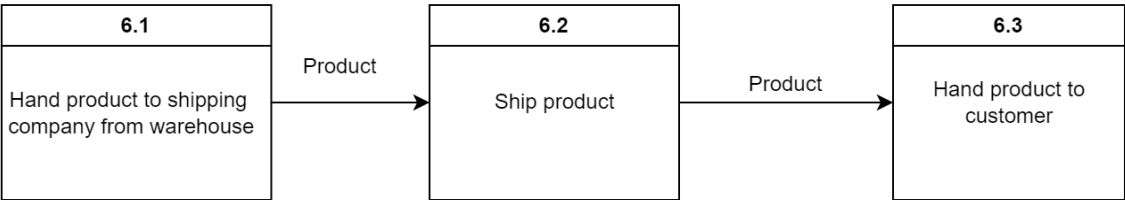












DATA DICTIONARY

External Entity ref: E1

Customer

Description: user of the system (IKEA system) who places an order and get the product

Input	Output
1.Status Message 2.Invoice 3.Product	1.Order 2.Payment Info

External Entity ref: E2

Warehouse

Description: large space where furniture is stored, stocked, and possibly even displayed for sale

Input	Output
1.In Stock Request	1.Confirmation

External Entity ref: E3

Shipping Company

Description: shipping company is a company that ship products to the customer

Input	Output
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1.Shipping Confirmation	1.Product
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External Entity ref: E4

Accounting

Description: the financial management and record-keeping activities

Input	Output
1.Report	-

Processes

Process ref P1

Order Furniture

Process	Input	Output
User orders furniture from the website	1.Order	1.oder 2.check order

Process ref P2

Check Status

Process	Input	Output
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Checks the availability of the product in the warehouse	Check order	Status message
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Process ref P3

Check payment validation

Process	Input	Output
Check if the card information is correct	Payment info	Payment info approval

Process ref P4

Check Bank Service

Process	Input	Output
Checks the balance of the customer if they have enough money to buy the product	Approval	Payment confirmation

Process ref P5

Approve Order

Process	Input	Output
Send confirmation to shipping company	Order Payment confirmation	Shipping confirmation

Process ref P6

Send Order

Process	Input	Output
Send product to customer and send invoice	Product	Invoice Product

Data Store

Data store ref D1

D1 Order

Description: this data stores the order information

Input	Output
Order	Order

Data Flow

Data flow ref F1

Order

Source	Destination	Included
External Entity Customer Process: Order Furniture Data Store D1: Order	Process: Order Furniture Data Store D1: Order Process: Approve Order	Order information

Data flow ref F2

Check Order

Source	Destination	Included
Process 1 order furniture	Check status	Check order availability.

Data flow ref F3

Status Message

Source	Destination	Included
Process: Check status	External Entity: Customer	Availability of stock

Data flow ref F4

Send payment info

Source	Destination	Included
Entity: customer	process: check payment validation	Send payment info to check validation

Data flow ref F5

Payment info approval

Source	Destination	Included
Process: check payment validation	Process: check bank services	Check payment cards and info is correct

Data flow ref F6

Payment Confirmation

Source	Destination	Included
Process 4.0: Check bank service	Process 5.0: Approve Order	Confirmation of payment

Data flow ref F7

Shipping confirmation

Source	Destination	Included
Process: approve order	Entity: shipping company	Send shipping confirmation to shipping company to ship the product

Data flow ref F8

Product

Source	Destination	Included
Entity: Shipping Company	Process 6.0: Send Product	The product that the customer ordered

Data flow ref F9

Product + invoice

Source	Destination	Included
Process: send order	Entity: customer	Send product and invoice to customer

Data flow ref F10

In stock request

Source	Destination	Included
Process: check status	Entity: warehouse	Send in stock request to check product availability.

Data flow ref F11

Confirmation

Source	Destination	Included
Entity: Warehouse	Process 5.0: Approve Order	Order Approval

Data flow ref F12

Report

Source	Destination	Included
Process: check bank service	Entity: accounting	Send report to accounting section

Monolithic Architecture

