

# Ordering System

CSCI 567 (Intro. to Software Engineering)

**Project by:**

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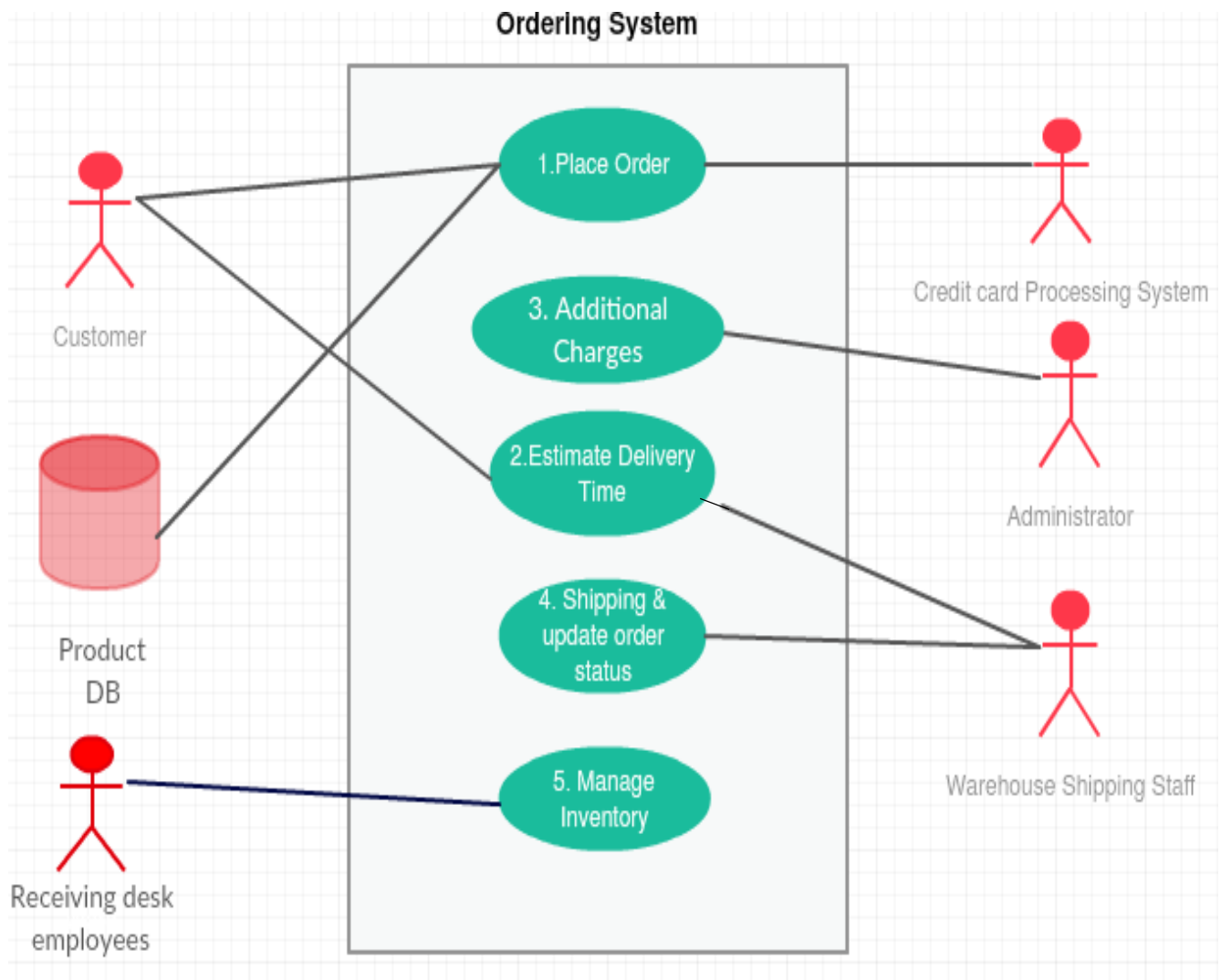
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## Introduction:

- To build a new system for a company which sells auto parts.
- Provides an interface to the Internet customers to place and pay for orders online through this new system.

## Use Case Model:

### Use case Diagram



## Actor Dictionary:

Actor	Description	Use Case(s)
Customer	Places an order by giving the required details.	Place Order Estimate Delivery Time
Product DB	Contains product details that are part number and description	Place Order
Warehouse Shipping Staff	Responsible for Packing and Shipping products, updating order status.	Estimate Delivery Time Shipping & update order status
Receiving desk employees	Responsible for adding the products into the inventory list.	Manage Inventory
Administrator	Responsible for including the shipping and handling charges, local tax rate while placing the order.	Additional charges

## Use Case Specifications:

Place Order:

<b>Name</b>	<b>Place Order</b>
<b>Id</b>	1
<b>Scope</b>	Ordering System
<b>Priority</b>	High
<b>Summary</b>	Allows customer to select products and pay for the order.
<b>Primary Actor</b>	Customer
<b>Supporting Actor(s)</b>	Product DB, Credit card processing System
<b>Stakeholders</b>	NA
<b>Generalization</b>	NA
<b>Include</b>	NA
<b>Extend</b>	NA
<b>Precondition</b>	Customers will be presented with a custom ordering program
<b>Trigger</b>	NA
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. Customer selects products from product DB.</li><li>2. Ordering system prompts customer for customer information.</li><li>3. Customer gives customer information.</li><li>4. Ordering system reads the customer information.</li><li>5. Ordering system prompts the customer for credit card details.</li><li>6. Customer provides credit card details which includes credit card number, Expiration date and purchase amount.</li><li>7. Ordering system reads the credit card details from the customer.</li><li>8. Ordering system sends the details to Credit card processing system.</li><li>9. Credit card processing system authenticates the credit card details.</li></ol>

	<p>10. Credit card processing system confirms to the ordering system with an authorization number.</p> <p>11. Ordering system displays the confirmation of order to the customer.</p>
<b>Sub-Flows</b>	<p>1.a. Customer inputs part number or description for selecting the product.</p> <p>b. Ordering System queries product DB for corresponding product.</p> <p>c. Product DB sends requested product details.</p> <p>d. Ordering system displays the product details to the customer.</p> <p>e. Customer selects the desired product.</p> <p>f. Ordering system highlights the selected item.</p> <p>g. Ordering system prompts customer for product quantity.</p> <p>h. Customer enters the product quantity.</p>
<b>Alternate Flow/Exceptions</b>	Product DB is not accessible, Inappropriate part number or description
<b>Post condition</b>	NA
<b>Open Issues</b>	NA
<b>Source</b>	Ordering System
<b>Author</b>	CSCI 567
<b>Revision and Date</b>	0.2 03/03/2016

Estimate Delivery Time:

Name	Estimate Delivery time
Id	2
Scope	Ordering System
Priority	Normal
Summary	Gets the location from the customer to predict the estimated delivery .
Primary Actor	Customer
Supporting Actor(s)	Warehouse Shipping Staff
Stakeholders	NA
Generalization	NA
Include	NA
Extend	NA
Precondition	Customer selects a product.
Trigger	Customer checks the quick delivery option.
Normal Flow	<ol style="list-style-type: none"><li>1. Ordering System prompts customer for location.</li><li>2. Customer provides the location.</li><li>3. Ordering system reads the location from customer.</li><li>4. Ordering System provides the fastest delivery time to the particular location.</li><li>5. Ordering System looks up additional charges for quick delivery.</li><li>6. Ordering System displays the information to the customer.</li></ol>
Sub-Flows	NA
Alternate Flow/Exceptions	Customer provides invalid location.
Post condition	NA
Open Issues	NA
Source	Ordering System
Author	CSCI 567
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Additional Charges:

Name	Additional Charges
Id	3
Scope	Ordering System
Priority	Normal
Summary	Administrator handles additional charges
Primary Actor	Administrator
Supporting Actor(s)	NA
Stakeholders	Administering staff
Generalization	NA
Include	NA
Extend	NA
Precondition	Customer finalizes an order.
Trigger	Customer clicks the place order option.
Normal Flow	<ol style="list-style-type: none"><li>1. Ordering system gives the order details to the administrator.</li><li>2. Administrator acknowledges the order.</li><li>3. Administrator sets the shipping and handling charges.</li><li>4. Administrator sets the local tax rate.</li><li>5. Administrator sends the additional charge details to the ordering system.</li></ol>
Sub-Flows	NA
Alternate Flow/ Exceptions	NA
Post condition	NA
Open Issues	NA
Source	Ordering System
Author	CSCI 567
Revision and Date	0.2 03/03/2016

Shipping & Update Order Status:

<b>Name</b>	<b>Shipping &amp; Update Order Status</b>
<b>Id</b>	4
<b>Scope</b>	Ordering System
<b>Priority</b>	Normal
<b>Summary</b>	Packing and shipping is done and updates the order status.
<b>Primary Actor</b>	Warehouse Shipping Staff
<b>Supporting Actor(s)</b>	NA
<b>Stakeholders</b>	DB Maintenance employees
<b>Generalization</b>	NA
<b>Include</b>	NA
<b>Extend</b>	NA
<b>Precondition</b>	Warehouse receives the order details and estimated delivery time.
<b>Trigger</b>	NA
<b>Normal Flow</b>	<ol style="list-style-type: none"><li>1. Warehouse shipping staff prints the packing lists.</li><li>2. Warehouse shipping staff retrieves the items from the warehouse.</li><li>3. Warehouse shipping staff packs the products.</li><li>4. Ordering system prints invoice and shipping label.</li><li>5. Warehouse shipping staff ships the product.</li><li>6. Ordering system updates the order status.</li></ol>
<b>Sub Flow</b>	NA
<b>Alternate Flow/ Exceptions</b>	NA
<b>Post condition</b>	NA
<b>Open Issues</b>	NA
<b>Source</b>	Ordering System
<b>Author</b>	CSCI 567
<b>Revision and Date</b>	0.1 03/02/2016



### Manage Inventory:

Name	Manage Inventory
Id	5
Scope	Ordering System
Priority	Normal
Summary	Products gets added to the inventory after the delivery.
Primary Actor	Receiving desk employees
Supporting Actor(s)	NA
Stakeholders	Product Suppliers
Generalization	NA
Include	NA
Extend	NA
Precondition	NA
Trigger	NA
Normal Flow	<ol style="list-style-type: none"><li>1. Receiving desk employees receives the products delivered.</li><li>2. Receiving desk employees adds the received products to the inventory.</li><li>3. Receiving desk employees recognizes the products with the description and part number.</li><li>4. Ordering system updates the quantity of the products.</li></ol>
Sub-Flows	NA
Alternate Flow/ Exceptions	NA
Post condition	NA
Open Issues	NA
Source	Ordering System
Author	CSCI 567
Revision and Date	0.1 03/02/2016