

Radimersky-Vaclavek-Zak

---

Radimersky-Vaclavek-Zak

# Table of Contents

Stereotypes.....	4
Use Case.....	6
Periodic check for expiration date.....	37
Manage recipes.....	39
Analytical class diagram.....	42
Entity Relationship Diagram Main.....	47
Entity Relationship Diagram invalidating 3rd normal form.....	50
Entity Relationship Diagram invalidating 2nd normal form.....	53
Class Diagram.....	56
Reservation.....	64
Reserve a table.....	66
Search for an order.....	67
(Customer) Place an order.....	68
(Chef) Confirm customer order.....	69
Rate and review ordered products.....	71
Deployment Diagram.....	73

# Table of Figures

Use Case.....	6
Periodic check for expiration date.....	37
Manage recipes.....	39
Analytical class diagram.....	42
Entity Relationship Diagram Main.....	47
Entity Relationship Diagram invalidating 3rd normal form.....	50
Entity Relationship Diagram invalidating 2nd normal form.....	53
Class Diagram.....	56
Reservation.....	64
Reserve a table.....	66
Search for an order.....	67
(Customer) Place an order.....	68
(Chef) Confirm customer order.....	69
Rate and review ordered products.....	71
Deployment Diagram.....	73

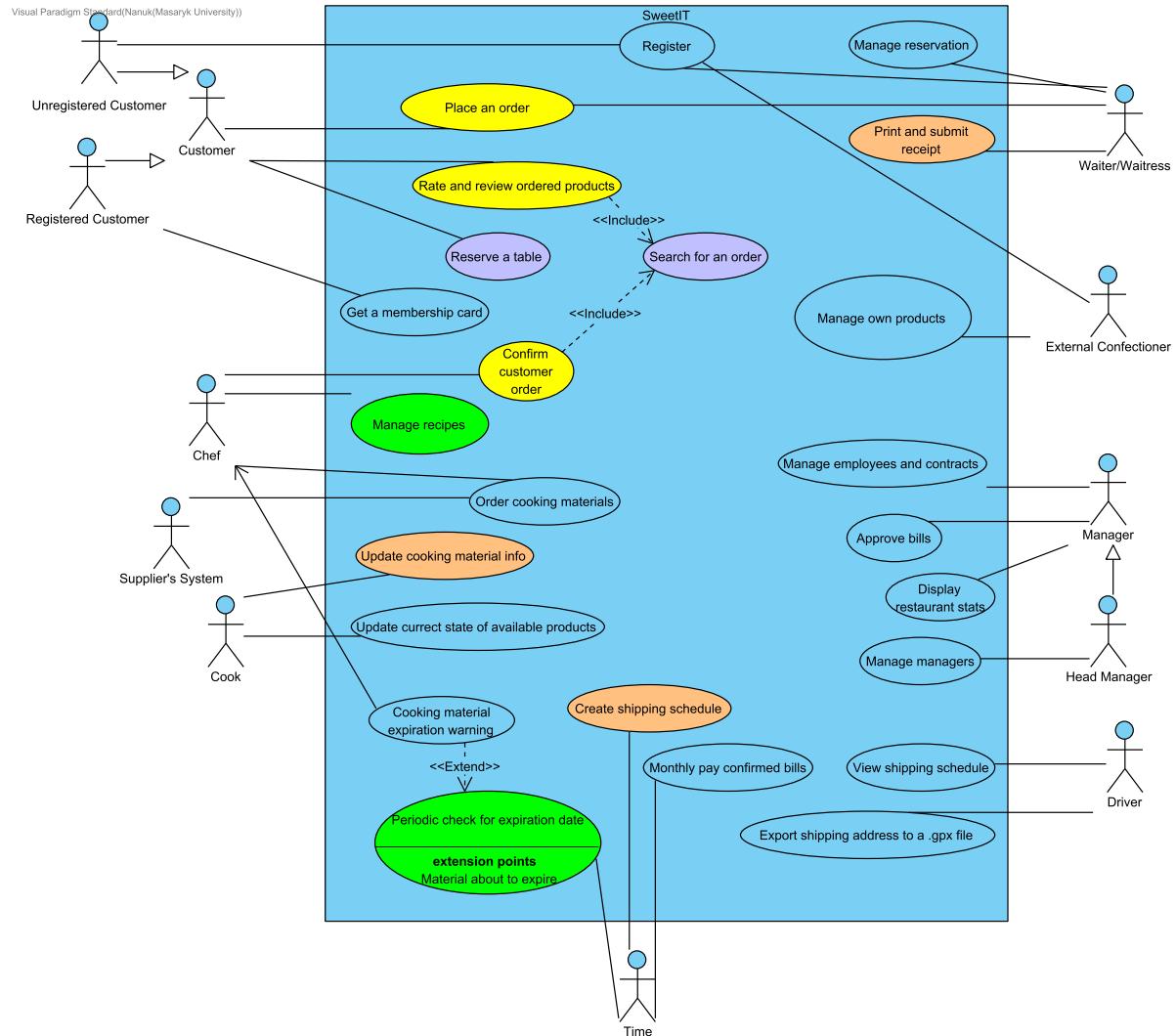
# Stereotypes

UseCase																																																									
Tagged Value Definitions	<table border="1"> <thead> <tr> <th colspan="2">Level</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Enumeration</td></tr> <tr> <td>Enumeration Values</td><td>Summary, User, Subfunction</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Complexity</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Enumeration</td></tr> <tr> <td>Enumeration Values</td><td>Low, Medium, High</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Use Case Status</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Enumeration</td></tr> <tr> <td>Enumeration Values</td><td>Name Only, Initial, Base, Complete, Deferred</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Implementation Status</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Enumeration</td></tr> <tr> <td>Enumeration Values</td><td>Scheduled, Started, Partially Complete, Complete, Partially Deferred</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Preconditions</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Multi-line Text</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Post-conditions</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Multi-line Text</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Author</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Text</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Assumptions</th> </tr> </thead> <tbody> <tr> <td>Backlog Activity Id</td><td>0</td></tr> <tr> <td>Type</td><td>Multi-line Text</td></tr> </tbody> </table>	Level		Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Summary, User, Subfunction	Complexity		Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Low, Medium, High	Use Case Status		Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Name Only, Initial, Base, Complete, Deferred	Implementation Status		Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Scheduled, Started, Partially Complete, Complete, Partially Deferred	Preconditions		Backlog Activity Id	0	Type	Multi-line Text	Post-conditions		Backlog Activity Id	0	Type	Multi-line Text	Author		Backlog Activity Id	0	Type	Text	Assumptions		Backlog Activity Id	0	Type	Multi-line Text
Level																																																									
Backlog Activity Id	0																																																								
Type	Enumeration																																																								
Enumeration Values	Summary, User, Subfunction																																																								
Complexity																																																									
Backlog Activity Id	0																																																								
Type	Enumeration																																																								
Enumeration Values	Low, Medium, High																																																								
Use Case Status																																																									
Backlog Activity Id	0																																																								
Type	Enumeration																																																								
Enumeration Values	Name Only, Initial, Base, Complete, Deferred																																																								
Implementation Status																																																									
Backlog Activity Id	0																																																								
Type	Enumeration																																																								
Enumeration Values	Scheduled, Started, Partially Complete, Complete, Partially Deferred																																																								
Preconditions																																																									
Backlog Activity Id	0																																																								
Type	Multi-line Text																																																								
Post-conditions																																																									
Backlog Activity Id	0																																																								
Type	Multi-line Text																																																								
Author																																																									
Backlog Activity Id	0																																																								
Type	Text																																																								
Assumptions																																																									
Backlog Activity Id	0																																																								
Type	Multi-line Text																																																								
Case Story																																																									
Context																																																									

requirement							
Tagged Value Definitions	<p>Text</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>HTML</td></tr> </table>	Backlog Activity Id	0	Type	HTML		
Backlog Activity Id	0						
Type	HTML						
	<p>ID</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>Text</td></tr> </table>	Backlog Activity Id	0	Type	Text		
Backlog Activity Id	0						
Type	Text						
	<p>source</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>Text</td></tr> </table>	Backlog Activity Id	0	Type	Text		
Backlog Activity Id	0						
Type	Text						
	<p>kind</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>Enumeration</td></tr> <tr><td>Enumeration Values</td><td>Functional, Performance, Interface</td></tr> </table>	Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Functional, Performance, Interface
Backlog Activity Id	0						
Type	Enumeration						
Enumeration Values	Functional, Performance, Interface						
	<p>verifyMethod</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>Enumeration</td></tr> <tr><td>Enumeration Values</td><td>Analysis, Demonstration, Inspection, Test</td></tr> </table>	Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Analysis, Demonstration, Inspection, Test
Backlog Activity Id	0						
Type	Enumeration						
Enumeration Values	Analysis, Demonstration, Inspection, Test						
	<p>risk</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>Enumeration</td></tr> <tr><td>Enumeration Values</td><td>High, Medium, Low</td></tr> </table>	Backlog Activity Id	0	Type	Enumeration	Enumeration Values	High, Medium, Low
Backlog Activity Id	0						
Type	Enumeration						
Enumeration Values	High, Medium, Low						
	<p>status</p> <table border="1"> <tr><td>Backlog Activity Id</td><td>0</td></tr> <tr><td>Type</td><td>Enumeration</td></tr> <tr><td>Enumeration Values</td><td>Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete</td></tr> </table>	Backlog Activity Id	0	Type	Enumeration	Enumeration Values	Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete
Backlog Activity Id	0						
Type	Enumeration						
Enumeration Values	Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete						
Extend							
Include							
ORM Abstract Persistable							
Interface							
use							

# Use Case Diagram

## Use Case



## Summary

Name	Description
Registered Customer	
Unregistered Customer	
Supplier's System	
Customer	
Chef	
Cook	
Time	
External Confectioner	
Manager	
Head Manager	
Waiter/Waitress	

Driver																	
Search for an order	<table border="1"> <tr> <td>Use Case ID</td><td>UC31</td></tr> <tr> <td>Brief Description</td><td>UC31 allows search for specified order</td></tr> <tr> <td>Primary Actors</td><td>Customer, Chef</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC31	Brief Description	UC31 allows search for specified order	Primary Actors	Customer, Chef	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC31																
Brief Description	UC31 allows search for specified order																
Primary Actors	Customer, Chef																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Rate and review ordered products	<table border="1"> <tr> <td>Use Case ID</td><td>UC30</td></tr> <tr> <td>Brief Description</td><td>UC30 allows to rate and review ordered products.</td></tr> <tr> <td>Primary Actors</td><td>Customer</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td>Customer has ordered products</td></tr> <tr> <td>Main Flow of Events</td><td> <ul style="list-style-type: none"> <li>1. Use case starts when customer clicks on "rate and review ordered products"</li> <li>2. INCLUDE (Search for an order)</li> <li>3. IF found at least one product           <ul style="list-style-type: none"> <li>3.1 System will display all products that belong to this customer.</li> <li>3.2. IF customer chooses "rate products"               <ul style="list-style-type: none"> <li>3.2.1 System allows customer to rate products</li> <li>3.2.2 System saves submitted rating</li> </ul> </li> <li>3.3. IF customer chooses "review products"</li> </ul> </li> </ul> </td></tr> </table>	Use Case ID	UC30	Brief Description	UC30 allows to rate and review ordered products.	Primary Actors	Customer	Secondary Actors		Preconditions	Customer has ordered products	Main Flow of Events	<ul style="list-style-type: none"> <li>1. Use case starts when customer clicks on "rate and review ordered products"</li> <li>2. INCLUDE (Search for an order)</li> <li>3. IF found at least one product           <ul style="list-style-type: none"> <li>3.1 System will display all products that belong to this customer.</li> <li>3.2. IF customer chooses "rate products"               <ul style="list-style-type: none"> <li>3.2.1 System allows customer to rate products</li> <li>3.2.2 System saves submitted rating</li> </ul> </li> <li>3.3. IF customer chooses "review products"</li> </ul> </li> </ul>				
Use Case ID	UC30																
Brief Description	UC30 allows to rate and review ordered products.																
Primary Actors	Customer																
Secondary Actors																	
Preconditions	Customer has ordered products																
Main Flow of Events	<ul style="list-style-type: none"> <li>1. Use case starts when customer clicks on "rate and review ordered products"</li> <li>2. INCLUDE (Search for an order)</li> <li>3. IF found at least one product           <ul style="list-style-type: none"> <li>3.1 System will display all products that belong to this customer.</li> <li>3.2. IF customer chooses "rate products"               <ul style="list-style-type: none"> <li>3.2.1 System allows customer to rate products</li> <li>3.2.2 System saves submitted rating</li> </ul> </li> <li>3.3. IF customer chooses "review products"</li> </ul> </li> </ul>																

		3.3.1 System allows customers to submit reviews of products																
	Alternative Flows	Customer may at any time leave the page using "back to main page" or "leave the system"																
	Post-conditions	Reviews and/or rating of reviewed/rated products will be updated																
Periodic check for expiration date																		
		<table border="1"> <tr> <td>Use Case ID</td><td>UC29</td></tr> <tr> <td>Brief Description</td><td>UC29 allows the system to periodically check expiration dates of stocked supplies (Extension) Issues a warning to chef when some supplies are about to expire</td></tr> <tr> <td>Primary Actors</td><td>Time</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC29	Brief Description	UC29 allows the system to periodically check expiration dates of stocked supplies (Extension) Issues a warning to chef when some supplies are about to expire	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC29																	
Brief Description	UC29 allows the system to periodically check expiration dates of stocked supplies (Extension) Issues a warning to chef when some supplies are about to expire																	
Primary Actors	Time																	
Secondary Actors																		
Preconditions																		
Main Flow of Events																		
Alternative Flows																		
Post-conditions																		
Print and submit receipt																		
		<table border="1"> <tr> <td>Use Case ID</td><td>UC28</td></tr> <tr> <td>Brief Description</td><td>UC28 allows Waiter/Waitress to have access to print a submit receipts of ordered products</td></tr> <tr> <td>Primary Actors</td><td>Waiter/Waitress</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> </table>	Use Case ID	UC28	Brief Description	UC28 allows Waiter/Waitress to have access to print a submit receipts of ordered products	Primary Actors	Waiter/Waitress	Secondary Actors		Preconditions							
Use Case ID	UC28																	
Brief Description	UC28 allows Waiter/Waitress to have access to print a submit receipts of ordered products																	
Primary Actors	Waiter/Waitress																	
Secondary Actors																		
Preconditions																		

	<table border="1"> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Main Flow of Events		Alternative Flows		Post-conditions											
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Export shipping address to a .gpx file	<table border="1"> <tr><td>Use Case ID</td><td>UC27</td></tr> <tr><td>Brief Description</td><td>UC27 allows drivers to export shipping addresses to .gpx file</td></tr> <tr><td>Primary Actors</td><td>Driver</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC27	Brief Description	UC27 allows drivers to export shipping addresses to .gpx file	Primary Actors	Driver	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC27																
Brief Description	UC27 allows drivers to export shipping addresses to .gpx file																
Primary Actors	Driver																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
View shipping schedule	<table border="1"> <tr><td>Use Case ID</td><td>UC26</td></tr> <tr><td>Brief Description</td><td>UC26 allows drivers to view their shipping schedule</td></tr> <tr><td>Primary Actors</td><td>Driver</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> </table>	Use Case ID	UC26	Brief Description	UC26 allows drivers to view their shipping schedule	Primary Actors	Driver	Secondary Actors		Preconditions		Main Flow of Events					
Use Case ID	UC26																
Brief Description	UC26 allows drivers to view their shipping schedule																
Primary Actors	Driver																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	

	<table border="1"> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Alternative Flows		Post-conditions													
Alternative Flows																	
Post-conditions																	
Manage own products	<table border="1"> <tr><td>Use Case ID</td><td>UC22</td></tr> <tr><td>Brief Description</td><td>UC22 allows external confectioners to manage his own products (change price, quantity, time of delivery etc.).</td></tr> <tr><td>Primary Actors</td><td>External Confectioner</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC22	Brief Description	UC22 allows external confectioners to manage his own products (change price, quantity, time of delivery etc.).	Primary Actors	External Confectioner	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC22																
Brief Description	UC22 allows external confectioners to manage his own products (change price, quantity, time of delivery etc.).																
Primary Actors	External Confectioner																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Create shipping schedule	<table border="1"> <tr><td>Use Case ID</td><td>UC20</td></tr> <tr><td>Brief Description</td><td>UC20 allows the system to create shipping schedules for drivers</td></tr> <tr><td>Primary Actors</td><td>Time</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> </table>	Use Case ID	UC20	Brief Description	UC20 allows the system to create shipping schedules for drivers	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows			
Use Case ID	UC20																
Brief Description	UC20 allows the system to create shipping schedules for drivers																
Primary Actors	Time																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	

	<table border="1"> <tr><td>Post-conditions</td><td></td></tr> </table>	Post-conditions															
Post-conditions																	
Monthly pay confirmed bills	<table border="1"> <tr><td>Use Case ID</td><td>UC19</td></tr> <tr><td>Brief Description</td><td>UC19 allows the system to pay for confirmed bills at the end of the month</td></tr> <tr><td>Primary Actors</td><td>Time</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC19	Brief Description	UC19 allows the system to pay for confirmed bills at the end of the month	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC19																
Brief Description	UC19 allows the system to pay for confirmed bills at the end of the month																
Primary Actors	Time																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Update current state of available products	<table border="1"> <tr><td>Use Case ID</td><td>UC18</td></tr> <tr><td>Brief Description</td><td>UC18 allows cooks to update current state of confection products available for sale</td></tr> <tr><td>Primary Actors</td><td>Cook</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC18	Brief Description	UC18 allows cooks to update current state of confection products available for sale	Primary Actors	Cook	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC18																
Brief Description	UC18 allows cooks to update current state of confection products available for sale																
Primary Actors	Cook																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	

Update cooking material info	<table border="1"> <tr> <td>Use Case ID</td><td>UC17</td></tr> <tr> <td>Brief Description</td><td>UC17 allows cooks to update current state of stocked cooking material</td></tr> <tr> <td>Primary Actors</td><td>Cook</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC17	Brief Description	UC17 allows cooks to update current state of stocked cooking material	Primary Actors	Cook	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC17																
Brief Description	UC17 allows cooks to update current state of stocked cooking material																
Primary Actors	Cook																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Confirm customer order	<table border="1"> <tr> <td>Use Case ID</td><td>UC16</td></tr> <tr> <td>Brief Description</td><td>UC16 allows the chef to confirm pending orders placed by customers</td></tr> <tr> <td>Primary Actors</td><td>Chef</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td>Pending order(s) exist</td></tr> <tr> <td>Main Flow of Events</td><td> <p>1. Use case starts when chef clicks on "Confirm pending orders".</p> <p>2. INCLUDE (Search for an order)</p> <p>3. IF found at least one pending product</p> <p>3.1 System will display overview of found order(s) (Format: type, quantity ordered (in stock)) and buttons to confirm order and reject order</p> <p>3.2. IF chef clicks on "Confirm order"</p> <p>3.2.1 The order is marked as confirmed</p> </td></tr> </table>	Use Case ID	UC16	Brief Description	UC16 allows the chef to confirm pending orders placed by customers	Primary Actors	Chef	Secondary Actors		Preconditions	Pending order(s) exist	Main Flow of Events	<p>1. Use case starts when chef clicks on "Confirm pending orders".</p> <p>2. INCLUDE (Search for an order)</p> <p>3. IF found at least one pending product</p> <p>3.1 System will display overview of found order(s) (Format: type, quantity ordered (in stock)) and buttons to confirm order and reject order</p> <p>3.2. IF chef clicks on "Confirm order"</p> <p>3.2.1 The order is marked as confirmed</p>				
Use Case ID	UC16																
Brief Description	UC16 allows the chef to confirm pending orders placed by customers																
Primary Actors	Chef																
Secondary Actors																	
Preconditions	Pending order(s) exist																
Main Flow of Events	<p>1. Use case starts when chef clicks on "Confirm pending orders".</p> <p>2. INCLUDE (Search for an order)</p> <p>3. IF found at least one pending product</p> <p>3.1 System will display overview of found order(s) (Format: type, quantity ordered (in stock)) and buttons to confirm order and reject order</p> <p>3.2. IF chef clicks on "Confirm order"</p> <p>3.2.1 The order is marked as confirmed</p>																

	<p>3.2.2 The system notifies the customer that his/her order has been confirmed</p> <p>3.3. IF chef clicks on "Reject order"</p> <p>3.3.1 The system prompts the chef to submit a reason of rejection</p> <p>3.3.2 The order is rejected (deleted)</p> <p>3.3.3 The system notifies the customer that his/her order has been rejected, adds the reason submitted by chef in step 3.3.1</p> <p>4 The system updates the list of orders and/or stock information accordingly</p>																
Alternative Flows	Chef may at any time leave the page using "back to main page" or "leave the system", step 3.3.1 being an exception, as reason for rejection is required.																
Post-conditions	Chosen order is either confirmed or rejected, user is notified accordingly																
Order cooking materials	<table border="1"> <tr> <td>Use Case ID</td><td>UC15</td></tr> <tr> <td>Brief Description</td><td>UC15 allows chef to order cooking materials. Supplier's system needs to confirm the order and sends a bill back to the SweetIT system.</td></tr> <tr> <td>Primary Actors</td><td>Chef</td></tr> <tr> <td>Secondary Actors</td><td>Supplier's system</td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC15	Brief Description	UC15 allows chef to order cooking materials. Supplier's system needs to confirm the order and sends a bill back to the SweetIT system.	Primary Actors	Chef	Secondary Actors	Supplier's system	Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC15																
Brief Description	UC15 allows chef to order cooking materials. Supplier's system needs to confirm the order and sends a bill back to the SweetIT system.																
Primary Actors	Chef																
Secondary Actors	Supplier's system																
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Cooking material expiration warning																	

	<table border="1"> <tr> <td>Use Case ID</td><td>UC14</td></tr> <tr> <td>Brief Description</td><td>UC14 Issues a warning to chef when some supplies are about to expire</td></tr> <tr> <td>Primary Actors</td><td>Time</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC14	Brief Description	UC14 Issues a warning to chef when some supplies are about to expire	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC14																
Brief Description	UC14 Issues a warning to chef when some supplies are about to expire																
Primary Actors	Time																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage recipes	<table border="1"> <tr> <td>Use Case ID</td><td>UC13</td></tr> <tr> <td>Brief Description</td><td>UC13 allows the chef to manage available recipes</td></tr> <tr> <td>Primary Actors</td><td>Chef</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC13	Brief Description	UC13 allows the chef to manage available recipes	Primary Actors	Chef	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC13																
Brief Description	UC13 allows the chef to manage available recipes																
Primary Actors	Chef																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage managers																	

	<table border="1"> <tr> <td>Use Case ID</td><td>UC11</td></tr> <tr> <td>Brief Description</td><td>UC11 allows head manager to manage ordinary managers</td></tr> <tr> <td>Primary Actors</td><td>Head Manager</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC11	Brief Description	UC11 allows head manager to manage ordinary managers	Primary Actors	Head Manager	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC11																
Brief Description	UC11 allows head manager to manage ordinary managers																
Primary Actors	Head Manager																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage employees and contracts	<table border="1"> <tr> <td>Use Case ID</td><td>UC10</td></tr> <tr> <td>Brief Description</td><td>UC10 allows managers to manage employee records and their contracts.</td></tr> <tr> <td>Primary Actors</td><td>Manager</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC10	Brief Description	UC10 allows managers to manage employee records and their contracts.	Primary Actors	Manager	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC10																
Brief Description	UC10 allows managers to manage employee records and their contracts.																
Primary Actors	Manager																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Display restaurant stats	<table border="1"> <tr> <td>Use Case ID</td><td>UC09</td></tr> <tr> <td>Brief Description</td><td>UC09 displays restaurant statistics to managers.</td></tr> <tr> <td>Primary Actors</td><td>Manager</td></tr> </table>	Use Case ID	UC09	Brief Description	UC09 displays restaurant statistics to managers.	Primary Actors	Manager										
Use Case ID	UC09																
Brief Description	UC09 displays restaurant statistics to managers.																
Primary Actors	Manager																

	<table border="1"> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Precondi tions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-con ditions</td><td></td></tr> </table>	Secondary Actors		Precondi tions		Main Flow of Events		Alternative Flows		Post-con ditions							
Secondary Actors																	
Precondi tions																	
Main Flow of Events																	
Alternative Flows																	
Post-con ditions																	
Approve bills	<table border="1"> <tr><td>Use Case ID</td><td>UC08</td></tr> <tr><td>Brief Description</td><td>UC08 allows managers to approve bills made by supplier system</td></tr> <tr><td>Primary Actors</td><td>Manager</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Precondi tions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-con ditions</td><td></td></tr> </table>	Use Case ID	UC08	Brief Description	UC08 allows managers to approve bills made by supplier system	Primary Actors	Manager	Secondary Actors		Precondi tions		Main Flow of Events		Alternative Flows		Post-con ditions	
Use Case ID	UC08																
Brief Description	UC08 allows managers to approve bills made by supplier system																
Primary Actors	Manager																
Secondary Actors																	
Precondi tions																	
Main Flow of Events																	
Alternative Flows																	
Post-con ditions																	
Manage reservation	<table border="1"> <tr><td>Use Case ID</td><td>UC07</td></tr> <tr><td>Brief Description</td><td>UC07 allows waiter/waitress to manage reservations.</td></tr> <tr><td>Primary Actors</td><td>Waiter/Waitress</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Precondi tions</td><td>A reservation must be made.</td></tr> </table>	Use Case ID	UC07	Brief Description	UC07 allows waiter/waitress to manage reservations.	Primary Actors	Waiter/Waitress	Secondary Actors		Precondi tions	A reservation must be made.						
Use Case ID	UC07																
Brief Description	UC07 allows waiter/waitress to manage reservations.																
Primary Actors	Waiter/Waitress																
Secondary Actors																	
Precondi tions	A reservation must be made.																

	<table border="1"> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Main Flow of Events		Alternative Flows		Post-conditions											
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Get a membership card	<table border="1"> <tr><td>Use Case ID</td><td>UC06</td></tr> <tr><td>Brief Description</td><td>UC06 allows registered customers to request a membership card</td></tr> <tr><td>Primary Actors</td><td>Registered Customer</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC06	Brief Description	UC06 allows registered customers to request a membership card	Primary Actors	Registered Customer	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC06																
Brief Description	UC06 allows registered customers to request a membership card																
Primary Actors	Registered Customer																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Place an order	<table border="1"> <tr><td>Use Case ID</td><td>UC03</td></tr> <tr><td>Brief Description</td><td>UC03 allows customer to place an order</td></tr> <tr><td>Primary Actors</td><td>Customer</td></tr> <tr><td>Secondary Actors</td><td>Chef</td></tr> <tr><td>Preconditions</td><td>-</td></tr> <tr><td>Main Flow of Events</td><td>1. Use case starts when customer clicks on "desert menu".</td></tr> </table>	Use Case ID	UC03	Brief Description	UC03 allows customer to place an order	Primary Actors	Customer	Secondary Actors	Chef	Preconditions	-	Main Flow of Events	1. Use case starts when customer clicks on "desert menu".				
Use Case ID	UC03																
Brief Description	UC03 allows customer to place an order																
Primary Actors	Customer																
Secondary Actors	Chef																
Preconditions	-																
Main Flow of Events	1. Use case starts when customer clicks on "desert menu".																

	<p>2. System shows list of deserts to a customer.</p> <p>3. Customer chooses which deserts to buy and quantity of each desert.</p> <p>4. IF customer clicks on "finalize order" AND at least one desert was chosen</p> <p>4.1. System shows a review of deserts chosen to be ordered and prompts customer to fill shipping details.</p> <p>5. Customer specifies pickup place (either home address or one of sweet-shops) and date of delivery.</p> <p>6. Specify pickup place and date of delivery</p> <p>7. The order is sent to chef for confirmation.</p> <p>8. IF chef confirms the order</p> <p>8.1. Customer chooses payment method (payment gateway or cash)</p> <p>8.2. ELSE customer is informed why the order was not confirmed and is brought back to step 3 to change desert selection.</p>
Alternative Flows	Customer can cancel order before step 7
Post-conditions	Customer can rate and review his ordered deserts.

Reserve a table	Use Case ID	UC02
	Brief Description	UC02 allows customers to place a reservation for a table
	Primary Actors	Customer
	Secondary Actors	
	Preconditions	
	Main Flow of Events	
	Alternative Flows	
	Post-conditions	

Register	<table border="1"> <tr> <td>Use Case ID</td><td>UC01</td></tr> <tr> <td>Brief Description</td><td>UC01 allows unregistered customer to register by filling a form.</td></tr> <tr> <td>Primary Actors</td><td>Customer, External Confectioner</td></tr> <tr> <td>Secondary Actors</td><td>Waiter/Waitress</td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC01	Brief Description	UC01 allows unregistered customer to register by filling a form.	Primary Actors	Customer, External Confectioner	Secondary Actors	Waiter/Waitress	Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC01																
Brief Description	UC01 allows unregistered customer to register by filling a form.																
Primary Actors	Customer, External Confectioner																
Secondary Actors	Waiter/Waitress																
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
SweetIT	<p><u>Functional requirements</u></p> <p>Customer</p> <ol style="list-style-type: none"> <li>1. The system allows the customer to register</li> <li>2. The system allows the customer to reserve a table</li> <li>3. The system allows the customer to place an order</li> <li>4. The system allows the customer to pay with card</li> <li>5. The system allows the customer to rate and review all ordered products</li> <li>6. The system allows the customer to filter products</li> </ol> <p>Registered customer</p> <ol style="list-style-type: none"> <li>1. The system allows the registered customer to reserve a table</li> <li>2. The system allows the registered customer to place an order</li> <li>3. The system allows the registered customer to pay with card</li> <li>4. The system allows the registered customer to rate and review all ordered products</li> <li>5. The system allows the registered customer to filter products</li> <li>6. The system allows the registered customer to get a membership card</li> <li>7. The system allows the registered customer with a membership card to gain credit</li> </ol>																

### Waiter/Waitress

1. The system allows the employee to manage a reservation
2. The system allows the employee to place an order (for a customer)
3. The system allows the employee to filter products
4. The system allows the employee to register a customer
5. The system allows the employee to print a receipt and submit the receipt to the EET system

NOTE: Employee functional requirements are also propagated to manager and head manager actor.

### Manager

1. The system allows the manager to manage a reservation (placed by a customer)
2. The system allows the manager to approve a bill
3. The system allows the manager to display statistics about his restaurant
4. The system allows the manager to manage employees and their contracts

### Head Manager

1. The system allows the head manager to manage a reservation
2. The system allows the head manager to approve a bill
3. The system allows the head manager to display statistics about all restaurants
4. The system allows the head manager to manage employees and their contracts
5. The system allows the head manager to manage managers

### Chef

1. The system allows the chef to manage recipes
2. The system allows the chef to place an order of new cooking materials
3. The system allows the chef to confirm an order (placed by customer)

### Supplier's System

1. The system allows the Supplier's system to send back a bill after receiving an order

### Cook

	<ol style="list-style-type: none"> <li>1. The system allows the cook to update the information about cooking materials</li> <li>2. The system allows the cook to update current state of available products (quantity, types available, ...)</li> </ol>
	<p>Time</p> <ol style="list-style-type: none"> <li>1. The system pays for all confirmed bills at the end of each month</li> <li>2. The system creates a shipping schedule for each driver two times a day</li> <li>3. The system warns the chef when some cooking material is about to expire</li> </ol>
	<p>External Confectioner (EC)</p> <ol style="list-style-type: none"> <li>1. The system allows the EC to sell his products online</li> <li>2. The system allows the EC to manage his portfolio</li> <li>3. The system allows the EC to confirm orders of his/her products</li> <li>4. The system allows the EC to mark an order as "ready to be delivered"</li> <li>5. The system allows the EC to register</li> <li>6. The system charges 30% for each order of EC's products (shipping included in the fee)</li> </ol>
	<p>Driver</p> <ol style="list-style-type: none"> <li>1. The system allows the driver to view his shipping schedule</li> <li>2. The system allows the driver to export shipping addresses to a .gpx file</li> </ol>
	<p>Non-functional requirements</p> <ol style="list-style-type: none"> <li>1. The system should be easily portable (to web, mobile, PC, ..)</li> <li>2. The system has to be available 24 hrs a day</li> <li>3. The system has to be connected to the internet</li> </ol>

## Details

---

Registered Customer

Unregistered Customer

Supplier's System

Customer  
Chef  
Cook  
Time

External Confectioner

Manager  
Head Manager  
Waiter/Waitress  
Driver

Search for an order

Rate and review ordered products

Periodic check for expiration date

Extension Points

Material about to expire	
Backlog Activity Id	0

Print and submit receipt  
Export shipping address to a .gpx file  
View shipping schedule  
Manage own products  
Create shipping schedule  
Monthly pay confirmed bills  
Update current state of available products  
Update cooking material info  
Confirm customer order  
Order cooking materials  
Cooking material expiration warning  
Manage recipes  
Manage managers  
Manage employees and contracts

Display restaurant stats  
Approve bills

Manage reservation  
 Get a membership card  
 Place an order  
 Reserve a table  
 Register  
 SweetIT  
 Children

Name	Description	
Register	Use Case ID	UC01
	Brief Description	UC01 allows unregistered customer to register by filling a form.
	Primary Actors	Customer, External Confectioner
	Secondary Actors	Waiter/Waitress
	Preconditions	
	Main Flow of Events	
	Alternative Flows	
	Post-conditions	
Reserve a table	Use Case ID	UC02
	Brief Description	UC02 allows customers to place a reservation for a table
	Primary Actors	Customer
	Secondary Actors	
	Preconditions	
	Main Flow of Events	

	<table border="1"> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Alternative Flows		Post-conditions													
Alternative Flows																	
Post-conditions																	
Place an order	<table border="1"> <tr> <td>Use Case ID</td><td>UC03</td></tr> <tr> <td>Brief Description</td><td>UC03 allows customer to place an order</td></tr> <tr> <td>Primary Actors</td><td>Customer</td></tr> <tr> <td>Secondary Actors</td><td>Chef</td></tr> <tr> <td>Preconditions</td><td>-</td></tr> <tr> <td>Main Flow of Events</td><td> <p>1. Use case starts when customer clicks on "desert menu".</p> <p>2. System shows list of deserts to a customer.</p> <p>3. Customer chooses which deserts to buy and quantity of each desert.</p> <p>4. IF customer clicks on "finalize order" AND at least one desert was chosen</p> <p>4.1. System shows a review of deserts chosen to be ordered and prompts customer to fill shipping details.</p> <p>5. Customer specifies pickup place (either home address or one of sweet-shops) and date of delivery.</p> <p>6. Specify pickup place and date of delivery</p> <p>7. The order is sent to chef for confirmation.</p> <p>8. IF chef confirms the order</p> <p>8.1. Customer chooses payment method (payment gateway or cash)</p> <p>8.2. ELSE customer is informed why the order was not confirmed and is brought back to step 3 to change desert selection.</p> </td></tr> <tr> <td>Alternative Flows</td><td>Customer can cancel order before step 7</td></tr> <tr> <td>Post-conditions</td><td>Customer can rate and review his ordered deserts.</td></tr> </table>	Use Case ID	UC03	Brief Description	UC03 allows customer to place an order	Primary Actors	Customer	Secondary Actors	Chef	Preconditions	-	Main Flow of Events	<p>1. Use case starts when customer clicks on "desert menu".</p> <p>2. System shows list of deserts to a customer.</p> <p>3. Customer chooses which deserts to buy and quantity of each desert.</p> <p>4. IF customer clicks on "finalize order" AND at least one desert was chosen</p> <p>4.1. System shows a review of deserts chosen to be ordered and prompts customer to fill shipping details.</p> <p>5. Customer specifies pickup place (either home address or one of sweet-shops) and date of delivery.</p> <p>6. Specify pickup place and date of delivery</p> <p>7. The order is sent to chef for confirmation.</p> <p>8. IF chef confirms the order</p> <p>8.1. Customer chooses payment method (payment gateway or cash)</p> <p>8.2. ELSE customer is informed why the order was not confirmed and is brought back to step 3 to change desert selection.</p>	Alternative Flows	Customer can cancel order before step 7	Post-conditions	Customer can rate and review his ordered deserts.
Use Case ID	UC03																
Brief Description	UC03 allows customer to place an order																
Primary Actors	Customer																
Secondary Actors	Chef																
Preconditions	-																
Main Flow of Events	<p>1. Use case starts when customer clicks on "desert menu".</p> <p>2. System shows list of deserts to a customer.</p> <p>3. Customer chooses which deserts to buy and quantity of each desert.</p> <p>4. IF customer clicks on "finalize order" AND at least one desert was chosen</p> <p>4.1. System shows a review of deserts chosen to be ordered and prompts customer to fill shipping details.</p> <p>5. Customer specifies pickup place (either home address or one of sweet-shops) and date of delivery.</p> <p>6. Specify pickup place and date of delivery</p> <p>7. The order is sent to chef for confirmation.</p> <p>8. IF chef confirms the order</p> <p>8.1. Customer chooses payment method (payment gateway or cash)</p> <p>8.2. ELSE customer is informed why the order was not confirmed and is brought back to step 3 to change desert selection.</p>																
Alternative Flows	Customer can cancel order before step 7																
Post-conditions	Customer can rate and review his ordered deserts.																

Get a membership card	<table border="1"> <tr> <td>Use Case ID</td><td>UC06</td></tr> <tr> <td>Brief Description</td><td>UC06 allows registered customers to request a membership card</td></tr> <tr> <td>Primary Actors</td><td>Registered Customer</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC06	Brief Description	UC06 allows registered customers to request a membership card	Primary Actors	Registered Customer	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC06																
Brief Description	UC06 allows registered customers to request a membership card																
Primary Actors	Registered Customer																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage reservation	<table border="1"> <tr> <td>Use Case ID</td><td>UC07</td></tr> <tr> <td>Brief Description</td><td>UC07 allows waiter/waitress to manage reservations.</td></tr> <tr> <td>Primary Actors</td><td>Waiter/Waitress</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td>A reservation must be made.</td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC07	Brief Description	UC07 allows waiter/waitress to manage reservations.	Primary Actors	Waiter/Waitress	Secondary Actors		Preconditions	A reservation must be made.	Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC07																
Brief Description	UC07 allows waiter/waitress to manage reservations.																
Primary Actors	Waiter/Waitress																
Secondary Actors																	
Preconditions	A reservation must be made.																
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Approve bills																	

	<table border="1"> <tr> <td>Use Case ID</td><td>UC08</td></tr> <tr> <td>Brief Description</td><td>UC08 allows managers to approve bills made by supplier system</td></tr> <tr> <td>Primary Actors</td><td>Manager</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC08	Brief Description	UC08 allows managers to approve bills made by supplier system	Primary Actors	Manager	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC08																
Brief Description	UC08 allows managers to approve bills made by supplier system																
Primary Actors	Manager																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Display restaurant stats	<table border="1"> <tr> <td>Use Case ID</td><td>UC09</td></tr> <tr> <td>Brief Description</td><td>UC09 displays restaurant statistics to managers.</td></tr> <tr> <td>Primary Actors</td><td>Manager</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC09	Brief Description	UC09 displays restaurant statistics to managers.	Primary Actors	Manager	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC09																
Brief Description	UC09 displays restaurant statistics to managers.																
Primary Actors	Manager																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage employees and contracts	<table border="1"> <tr> <td>Use Case ID</td><td>UC10</td></tr> <tr> <td>Brief Description</td><td>UC10 allows managers to manage employee records and their contracts.</td></tr> <tr> <td>Primary Actors</td><td>Manager</td></tr> </table>	Use Case ID	UC10	Brief Description	UC10 allows managers to manage employee records and their contracts.	Primary Actors	Manager										
Use Case ID	UC10																
Brief Description	UC10 allows managers to manage employee records and their contracts.																
Primary Actors	Manager																

	<table border="1"> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions							
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage managers	<table border="1"> <tr><td>Use Case ID</td><td>UC11</td></tr> <tr><td>Brief Description</td><td>UC11 allows head manager to manage ordinary managers</td></tr> <tr><td>Primary Actors</td><td>Head Manager</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC11	Brief Description	UC11 allows head manager to manage ordinary managers	Primary Actors	Head Manager	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC11																
Brief Description	UC11 allows head manager to manage ordinary managers																
Primary Actors	Head Manager																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Manage recipes	<table border="1"> <tr><td>Use Case ID</td><td>UC13</td></tr> <tr><td>Brief Description</td><td>UC13 allows the chef to manage available recipes</td></tr> <tr><td>Primary Actors</td><td>Chef</td></tr> <tr><td>Secondary Actors</td><td></td></tr> </table>	Use Case ID	UC13	Brief Description	UC13 allows the chef to manage available recipes	Primary Actors	Chef	Secondary Actors									
Use Case ID	UC13																
Brief Description	UC13 allows the chef to manage available recipes																
Primary Actors	Chef																
Secondary Actors																	

	<table border="1"> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Preconditions		Main Flow of Events		Alternative Flows		Post-conditions									
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Cooking material expiration warning	<table border="1"> <tr><td>Use Case ID</td><td>UC14</td></tr> <tr><td>Brief Description</td><td>UC14 Issues a warning to chef when some supplies are about to expire</td></tr> <tr><td>Primary Actors</td><td>Time</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC14	Brief Description	UC14 Issues a warning to chef when some supplies are about to expire	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC14																
Brief Description	UC14 Issues a warning to chef when some supplies are about to expire																
Primary Actors	Time																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Order cooking materials	<table border="1"> <tr><td>Use Case ID</td><td>UC15</td></tr> <tr><td>Brief Description</td><td>UC15 allows chef to order cooking materials. Supplier's system needs to confirm the order and sends a bill back to the SweetIT system.</td></tr> <tr><td>Primary Actors</td><td>Chef</td></tr> </table>	Use Case ID	UC15	Brief Description	UC15 allows chef to order cooking materials. Supplier's system needs to confirm the order and sends a bill back to the SweetIT system.	Primary Actors	Chef										
Use Case ID	UC15																
Brief Description	UC15 allows chef to order cooking materials. Supplier's system needs to confirm the order and sends a bill back to the SweetIT system.																
Primary Actors	Chef																

	Secondary Actors	Supplier's system
	Preconditions	
	Main Flow of Events	
	Alternative Flows	
	Post-conditions	
Confirm customer order	Use Case ID	UC16
	Brief Description	UC16 allows the chef to confirm pending orders placed by customers
	Primary Actors	Chef
	Secondary Actors	
	Preconditions	Pending order(s) exist
	Main Flow of Events	<p>1. Use case starts when chef clicks on "Confirm pending orders".</p> <p>2. INCLUDE (Search for an order)</p> <p>3. IF found at least one pending product</p> <p>3.1 System will display overview of found order(s) (Format: type, quantity ordered (in stock)) and buttons to confirm order and reject order</p> <p>3.2. IF chef clicks on "Confirm order"</p> <p>3.2.1 The order is marked as confirmed</p> <p>3.2.2 The system notifies the customer that his/her order has been confirmed</p> <p>3.3. IF chef clicks on "Reject order"</p> <p>3.3.1 The system prompts the chef to submit a reason of rejection</p> <p>3.3.2 The order is rejected (deleted)</p> <p>3.3.3 The system notifies the customer that his/her order has been rejected, adds the reason submitted by chef in step 3.3.1</p> <p>4 The system updates the list of orders and/or stock information accordingly</p>
	Alternative Flows	Chef may at any time leave the page using "back to main page" or "leave the system";

	step 3.3.1 being an exception, as reason for rejection is required.																
Post-conditions	Chosen order is either confirmed or rejected, user is notified accordingly																
Update cooking material info	<table border="1"> <tr> <td>Use Case ID</td><td>UC17</td></tr> <tr> <td>Brief Description</td><td>UC17 allows cooks to update current state of stocked cooking material</td></tr> <tr> <td>Primary Actors</td><td>Cook</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC17	Brief Description	UC17 allows cooks to update current state of stocked cooking material	Primary Actors	Cook	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC17																
Brief Description	UC17 allows cooks to update current state of stocked cooking material																
Primary Actors	Cook																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Update current state of available products	<table border="1"> <tr> <td>Use Case ID</td><td>UC18</td></tr> <tr> <td>Brief Description</td><td>UC18 allows cooks to update current state of confection products available for sale</td></tr> <tr> <td>Primary Actors</td><td>Cook</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> </table>	Use Case ID	UC18	Brief Description	UC18 allows cooks to update current state of confection products available for sale	Primary Actors	Cook	Secondary Actors		Preconditions		Main Flow of Events					
Use Case ID	UC18																
Brief Description	UC18 allows cooks to update current state of confection products available for sale																
Primary Actors	Cook																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	

	<table border="1"> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Alternative Flows		Post-conditions													
Alternative Flows																	
Post-conditions																	
Monthly pay confirmed bills	<table border="1"> <tr><td>Use Case ID</td><td>UC19</td></tr> <tr><td>Brief Description</td><td>UC19 allows the system to pay for confirmed bills at the end of the month</td></tr> <tr><td>Primary Actors</td><td>Time</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC19	Brief Description	UC19 allows the system to pay for confirmed bills at the end of the month	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC19																
Brief Description	UC19 allows the system to pay for confirmed bills at the end of the month																
Primary Actors	Time																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Create shipping schedule	<table border="1"> <tr><td>Use Case ID</td><td>UC20</td></tr> <tr><td>Brief Description</td><td>UC20 allows the system to create shipping schedules for drivers</td></tr> <tr><td>Primary Actors</td><td>Time</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC20	Brief Description	UC20 allows the system to create shipping schedules for drivers	Primary Actors	Time	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC20																
Brief Description	UC20 allows the system to create shipping schedules for drivers																
Primary Actors	Time																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	

Manage own products	<table border="1"> <tr> <td>Use Case ID</td><td>UC22</td></tr> <tr> <td>Brief Description</td><td>UC22 allows external confectioners to manage his own products (change price, quantity, time of delivery etc.).</td></tr> <tr> <td>Primary Actors</td><td>External Confectioner</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC22	Brief Description	UC22 allows external confectioners to manage his own products (change price, quantity, time of delivery etc.).	Primary Actors	External Confectioner	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC22																
Brief Description	UC22 allows external confectioners to manage his own products (change price, quantity, time of delivery etc.).																
Primary Actors	External Confectioner																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
View shipping schedule	<table border="1"> <tr> <td>Use Case ID</td><td>UC26</td></tr> <tr> <td>Brief Description</td><td>UC26 allows drivers to view their shipping schedule</td></tr> <tr> <td>Primary Actors</td><td>Driver</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC26	Brief Description	UC26 allows drivers to view their shipping schedule	Primary Actors	Driver	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC26																
Brief Description	UC26 allows drivers to view their shipping schedule																
Primary Actors	Driver																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Export shipping address to a .gpx file																	

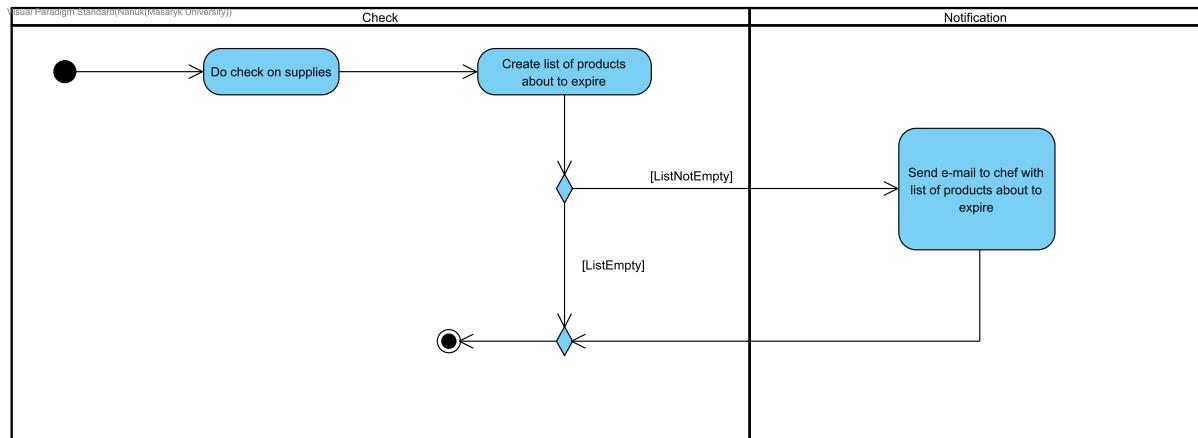
	<table border="1"> <tr><td>Use Case ID</td><td>UC27</td></tr> <tr><td>Brief Description</td><td>UC27 allows drivers to export shipping addresses to .gpx file</td></tr> <tr><td>Primary Actors</td><td>Driver</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC27	Brief Description	UC27 allows drivers to export shipping addresses to .gpx file	Primary Actors	Driver	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC27																
Brief Description	UC27 allows drivers to export shipping addresses to .gpx file																
Primary Actors	Driver																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Print and submit receipt	<table border="1"> <tr><td>Use Case ID</td><td>UC28</td></tr> <tr><td>Brief Description</td><td>UC28 allows Waiter/Waitress to have access to print a submit receipts of ordered products</td></tr> <tr><td>Primary Actors</td><td>Waiter/Waitress</td></tr> <tr><td>Secondary Actors</td><td></td></tr> <tr><td>Preconditions</td><td></td></tr> <tr><td>Main Flow of Events</td><td></td></tr> <tr><td>Alternative Flows</td><td></td></tr> <tr><td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC28	Brief Description	UC28 allows Waiter/Waitress to have access to print a submit receipts of ordered products	Primary Actors	Waiter/Waitress	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC28																
Brief Description	UC28 allows Waiter/Waitress to have access to print a submit receipts of ordered products																
Primary Actors	Waiter/Waitress																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	
Periodic check for expiration date	<table border="1"> <tr><td>Use Case ID</td><td>UC29</td></tr> </table>	Use Case ID	UC29														
Use Case ID	UC29																

	Brief Description	UC29 allows the system to periodically check expiration dates of stocked supplies (Extension) Issues a warning to chef when some supplies are about to expire
	Primary Actors	Time
	Secondary Actors	
	Preconditions	
	Main Flow of Events	
	Alternative Flows	
	Post-conditions	
Rate and review ordered products	Use Case ID	UC30
	Brief Description	UC30 allows to rate and review ordered products.
	Primary Actors	Customer
	Secondary Actors	
	Preconditions	Customer has ordered products
	Main Flow of Events	<ul style="list-style-type: none"> <li>1. Use case starts when customer clicks on "rate and review ordered products"</li> <li>2. INCLUDE (Search for an order)</li> <li>3. IF found at least one product <ul style="list-style-type: none"> <li>3.1 System will display all products that belong to this customer.</li> <li>3.2. IF customer chooses "rate products" <ul style="list-style-type: none"> <li>3.2.1 System allows customer to rate products</li> <li>3.2.2 System saves submitted rating</li> </ul> </li> <li>3.3. IF customer chooses "review products" <ul style="list-style-type: none"> <li>3.3.1 System allows customers to submit reviews of products</li> </ul> </li> </ul> </li> </ul>
	Alternative Flows	Customer may at any time leave the page using "back to main page" or "leave the system"

	<table border="1"> <tr> <td>Post-condition</td><td>Reviews and/or rating of reviewed/rated products will be updated</td></tr> </table>	Post-condition	Reviews and/or rating of reviewed/rated products will be updated														
Post-condition	Reviews and/or rating of reviewed/rated products will be updated																
Search for an order	<table border="1"> <tr> <td>Use Case ID</td><td>UC31</td></tr> <tr> <td>Brief Description</td><td>UC31 allows search for specified order</td></tr> <tr> <td>Primary Actors</td><td>Customer, Chef</td></tr> <tr> <td>Secondary Actors</td><td></td></tr> <tr> <td>Preconditions</td><td></td></tr> <tr> <td>Main Flow of Events</td><td></td></tr> <tr> <td>Alternative Flows</td><td></td></tr> <tr> <td>Post-conditions</td><td></td></tr> </table>	Use Case ID	UC31	Brief Description	UC31 allows search for specified order	Primary Actors	Customer, Chef	Secondary Actors		Preconditions		Main Flow of Events		Alternative Flows		Post-conditions	
Use Case ID	UC31																
Brief Description	UC31 allows search for specified order																
Primary Actors	Customer, Chef																
Secondary Actors																	
Preconditions																	
Main Flow of Events																	
Alternative Flows																	
Post-conditions																	

## Activity Diagram

# Periodic check for expiration date



## Summary

Name	Description
Swimlane2	
Check	
Notification	
Do check on supplies	
Create list of products about to expire	
Send e-mail to chef with list of products about to expire	

## Details

### Swimlane2

#### Activity Partitions

Check		
Backlog Activity Id	0	
Contained Elements	Name	Description
	N/A	
	Do check on supplies	
	Create list of products about to expire	
	N/A	
	N/A	
	N/A	

Notification		
Backlog Activity Id	0	
Contained Elements	Name	Description
	Send e-mail to chef with list of products about to expire	

N/A

Do check on supplies

Create list of products about to expire

N/A

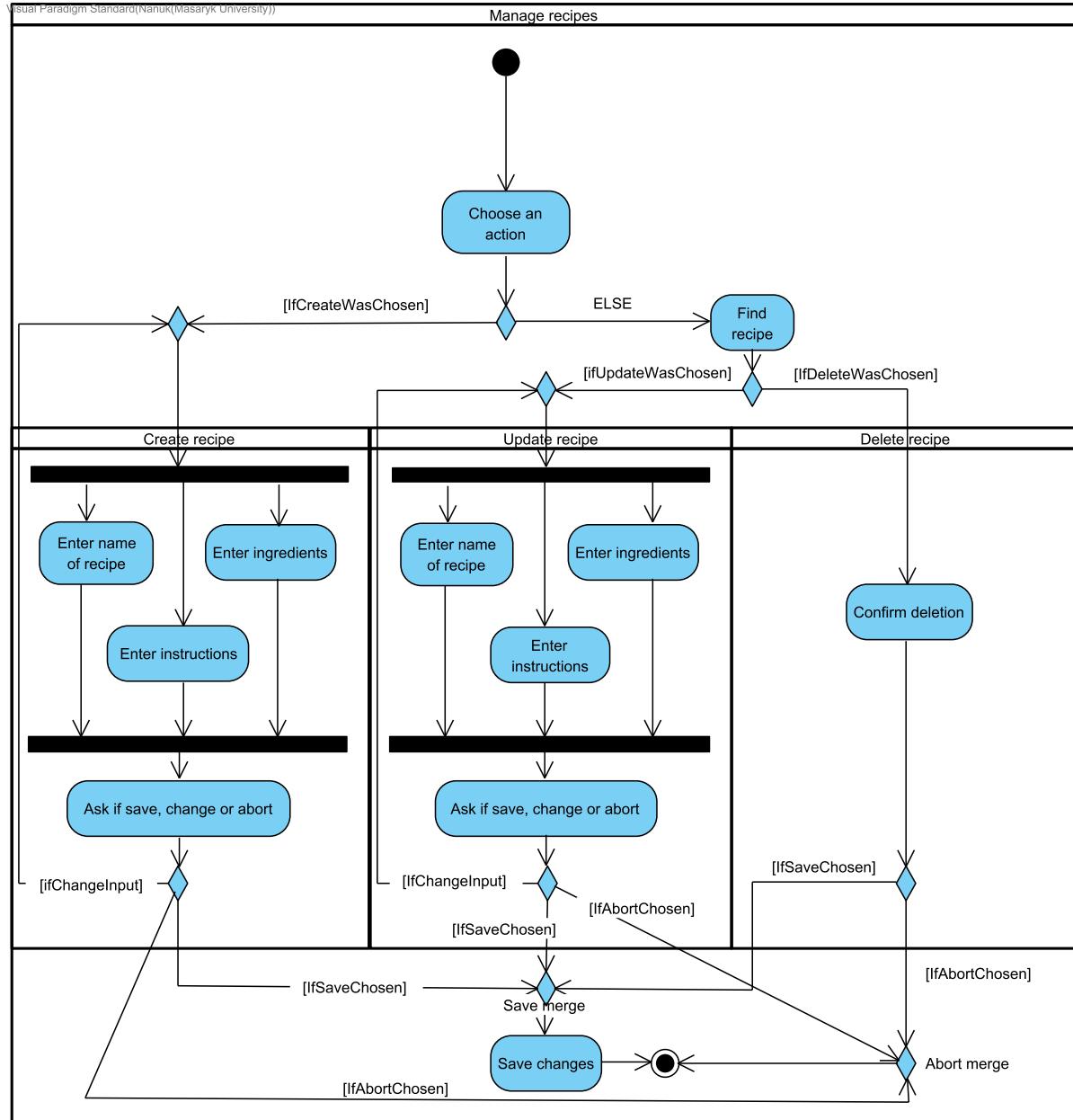
Send e-mail to chef with list of products about to expire

N/A

N/A

# Activity Diagram

## Manage recipes



## Summary

Name	Description
Swimlane3	
Manage recipes	
Swimlane	
Create recipe	
Delete recipe	
Update recipe	
Choose an action	

Enter name of recipe	
Enter instructions	
Enter ingredients	
Ask if save, change or abort	
Find recipe	
Confirm deletion	
Abort merge	
Save merge	
Save changes	

## Details

---

### Swimlane3 Activity Partitions

Manage recipes		
Backlog Activity Id	0	
Contained Elements	Name	Description
	N/A	
	N/A	
	Save changes	
	Enter instructions	
	N/A	
	N/A	

### Swimlane Activity Partitions

Create recipe		
Backlog Activity Id	0	
Contained Elements	Name	Description
	N/A	
	Enter name of recipe	
	Enter ingredients	
	N/A	
	Ask if save, change or abort	

Update recipe		
Backlog Activity Id	0	
Contained Elements	Name	Description
	N/A	

Delete recipe		
Backlog Activity Id	0	
Contained Elements	Name	Description
	Confirm deletion	
	N/A	

N/A

Choose an action

N/A

N/A

N/A

Enter name of recipe

Enter instructions

Enter ingredients

N/A

Ask if save, change or abort

N/A

Find recipe

N/A

N/A

Confirm deletion

N/A

Abort merge

N/A

Save merge

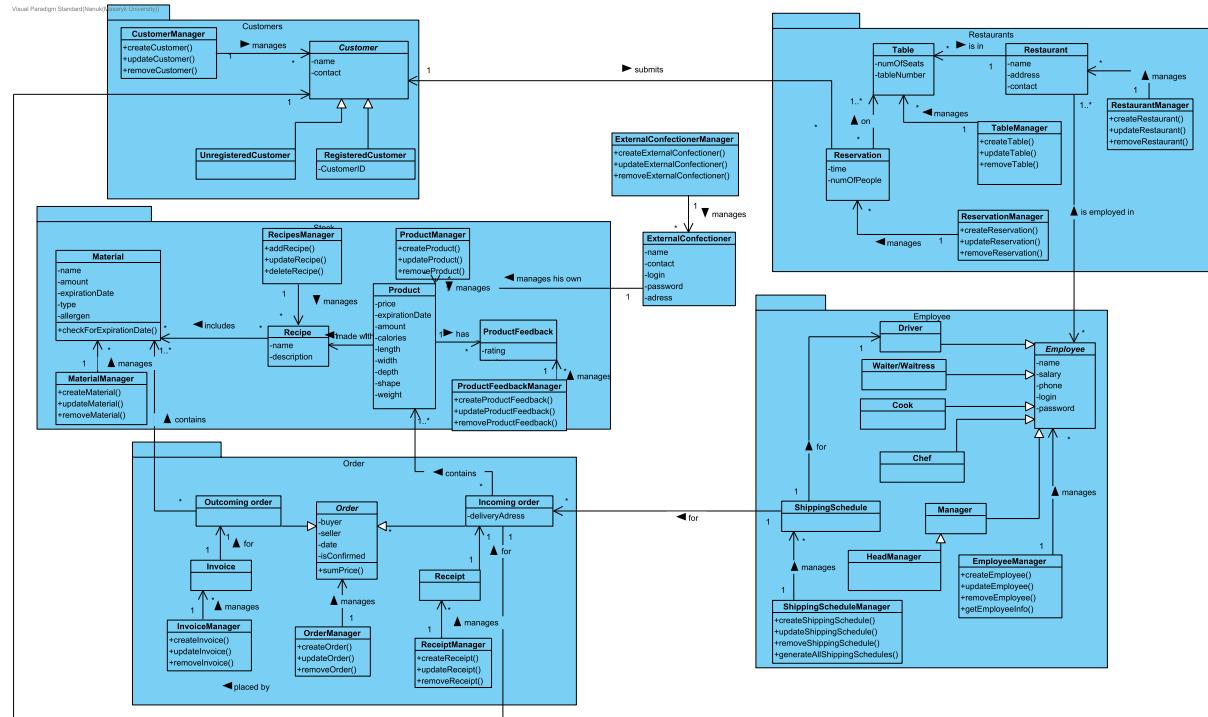
Save changes

N/A

N/A

# Class Diagram

## Analytical class diagram



## Summary

Name	Description
Customers	
Restaurants	
CustomerManager	
Customer	
Table	
Restaurant	
RestaurantManager	
TableManager	
ExternalConfectionerManager	
UnregisteredCustomer	
RegisteredCustomer	
Reservation	
Stock	
ReservationManager	
RecipesManager	
ProductManager	
ExternalConfectioner	
Material	
Product	

Employee	
ProductFeedback	
Driver	
Recipe	
Employee	
Waiter/Waitress	
MaterialManager	
ProductFeedbackManager	
Cook	
Order	
Chef	
Outcoming order	
Incoming order	
ShippingSchedule	
Order	
Manager	
HeadManager	
EmployeeManager	
Invoice	
Receipt	
ShippingScheduleManager	
InvoiceManager	
OrderManager	
ReceiptManager	

## Details

---

### Customers

#### Children

Name	Description
CustomerManager	
Customer	
UnregisteredCustomer	
RegisteredCustomer	

## Restaurants

## Children

Name	Description
Table	
Restaurant	
RestaurantManager	
TableManager	
Reservation	
ReservationManager	

CustomerManager

Customer

Table

Restaurant

RestaurantManager

TableManager

ExternalConfectionerManager

UnregisteredCustomer

RegisteredCustomer

Reservation

Stock

Children

Name	Description
RecipesManager	
ProductManager	
Material	
Product	
ProductFeedback	
Recipe	
MaterialManager	
ProductFeedbackManager	

ReservationManager

RecipesManager

ProductManager

ExternalConfectioner

# Material Product Employee Children

Name	Description
Driver	
Employee	
Waiter/Waitress	
Cook	
Chef	
ShippingSchedule	
Manager	
HeadManager	
EmployeeManager	
ShippingScheduleManager	

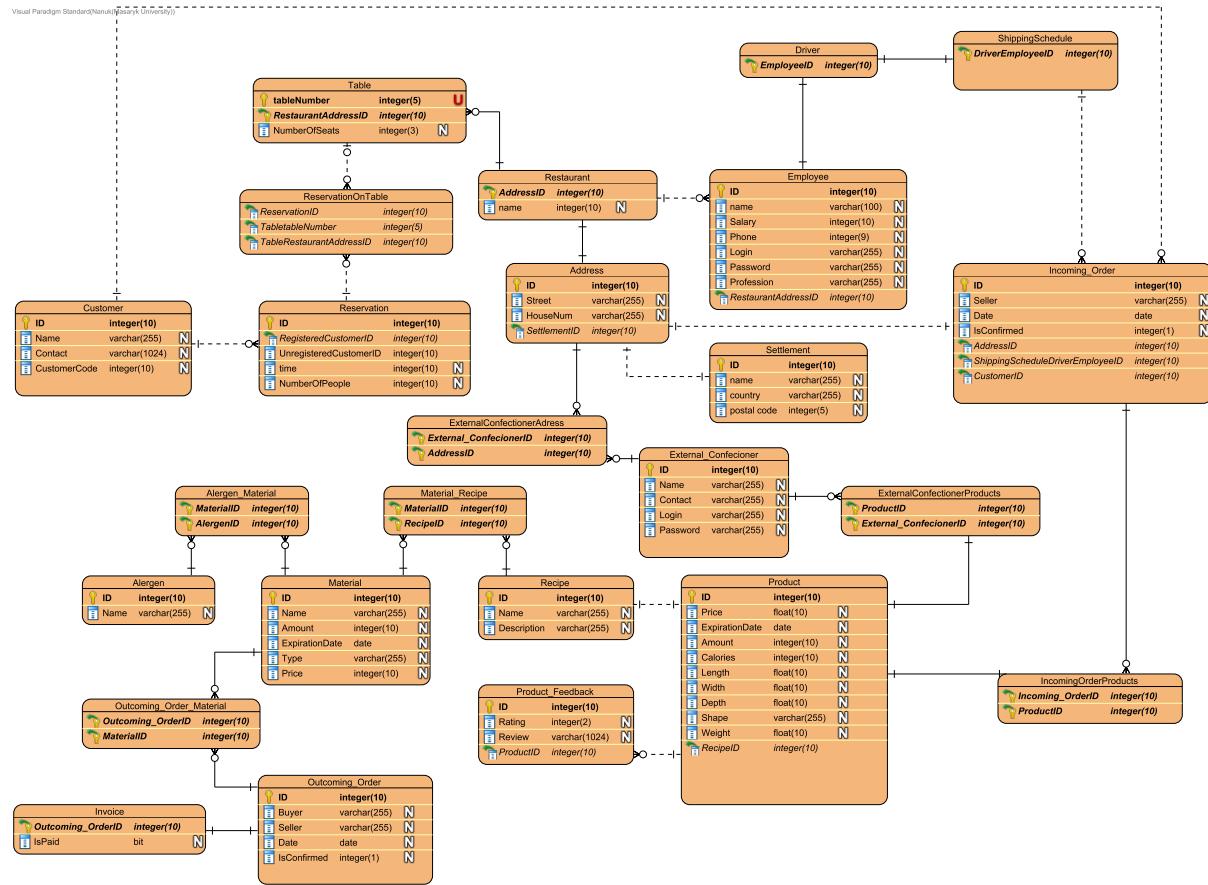
ProductFeedback  
Driver  
Recipe  
Employee  
Waiter/Waitress  
MaterialManager  
ProductFeedbackManager  
Cook  
Order  
Children

Name	Description
Outcoming order	
Incoming order	
Order	
Invoice	
Receipt	
InvoiceManager	
OrderManager	
ReceiptManager	

Chef  
Outcoming order  
Incoming order  
ShippingSchedule  
Order  
Manager  
HeadManager  
EmployeeManager  
Invoice  
Receipt  
ShippingScheduleManager  
InvoiceManager  
OrderManager  
ReceiptManager

# Entity Relationship Diagram

# Entity Relationship Diagram Main



## Summary

Name	Description
ShippingSchedule	
Driver	
Table	
Employee	
Restaurant	
ReservationOnTable	
Address	
Incoming_Order	
Customer	
Reservation	
Settlement	
ExternalConfectionerAdress	
External_Confencioner	
Alergen_Material	
Material_Recipe	
Recipe	
Product_Feedback	
Outcoming_Order	
Invoice	
Outcoming_Order_Material	
Product	
ExternalConfectionerProducts	

Product	
Alergen	
Material	
Recipe	
IncomingOrderProducts	
Product_Feedback	
Outcoming_Order_Material	
Outcoming_Order	
Invoice	

## Details

---

ShippingSchedule

Driver

Table

Employee

Restaurant

ReservationOnTable

Address

Incoming\_Order

Customer

Reservation

Settlement

ExternalConfectionerAdress

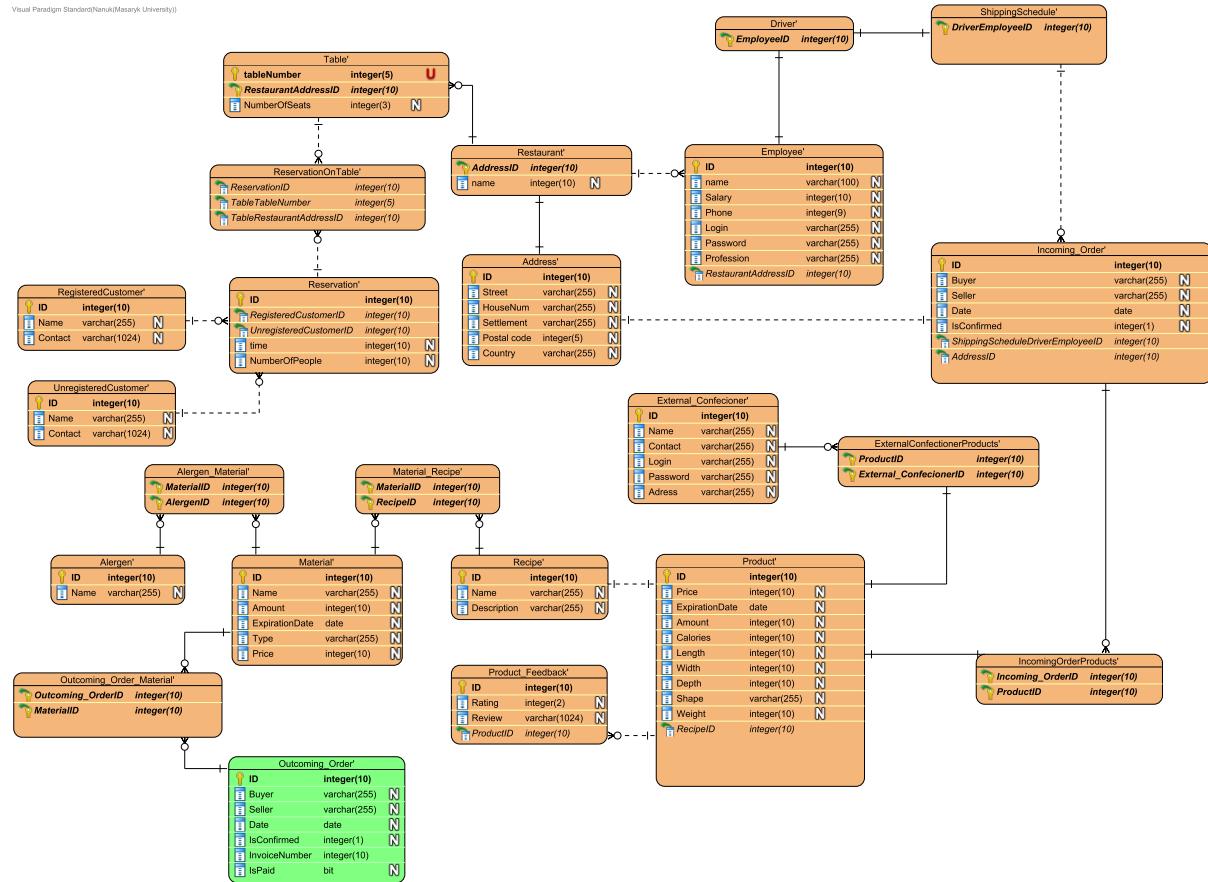
External\_Confencioner

Alergen\_Material

Material\_Recipe  
ExternalConfectionerProducts  
Product  
Alergen  
Material  
Recipe  
IncomingOrderProducts  
Product\_Feedback  
Outcoming\_Order\_Material  
Outcoming\_Order  
Invoice

## Entity Relationship Diagram

# Entity Relationship Diagram invalidating 3rd normal form



## Summary

Name	Description
ShippingSchedule'	
Driver'	
Table'	
Employee'	
Restaurant'	
ReservationOnTable'	
Incoming_Order'	
Address'	
Reservation'	
RegisteredCustomer'	
UnregisteredCustomer'	
External_Confecioner'	
ExternalConfectionerProducts'	
Alergen_Material'	

Material_Recipe'	
Product'	
Alergen'	
Material'	
Recipe'	
IncomingOrderProducts'	
Product_Feedback'	
Outcoming_Order_Material'	
Outcoming_Order'	

## Details

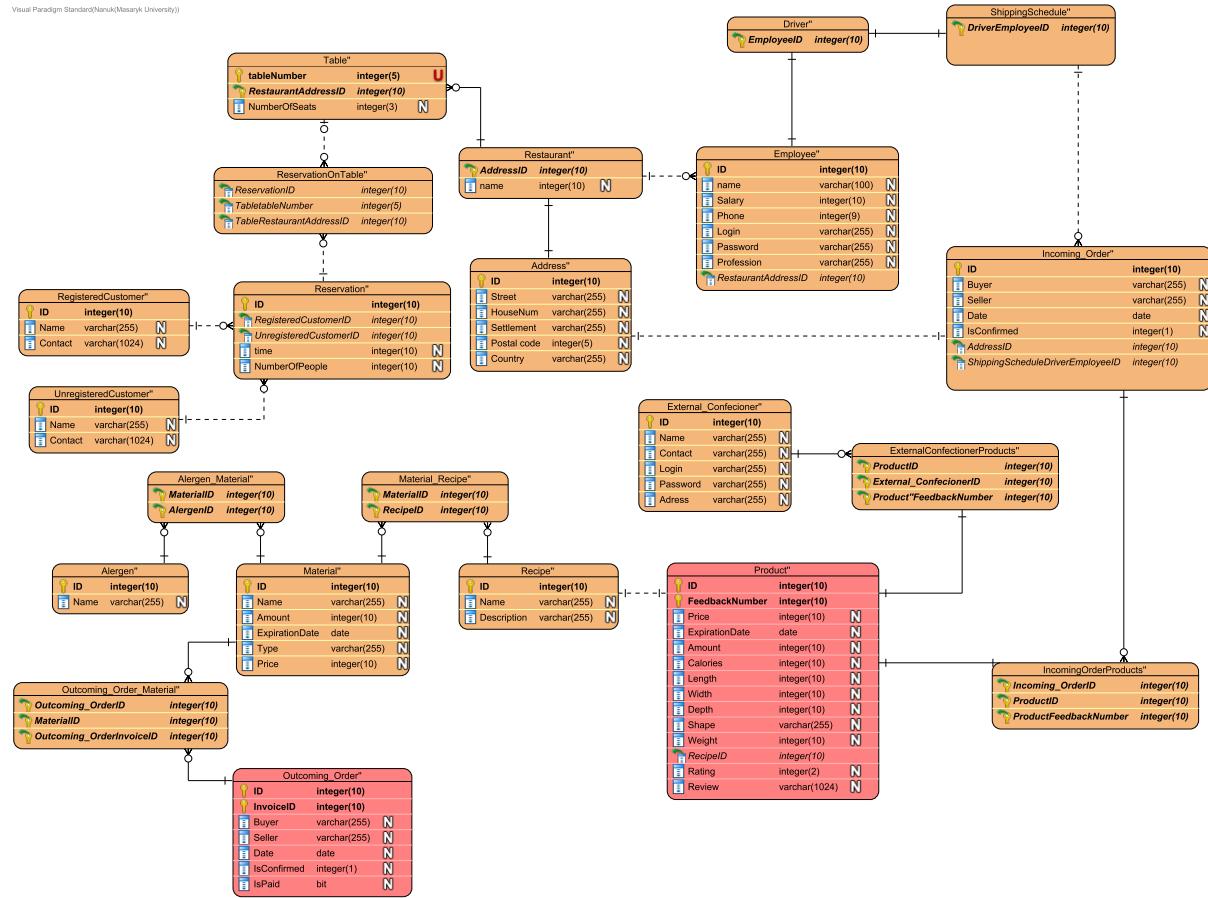
---

ShippingSchedule'  
 Driver'  
 Table'  
 Employee'  
 Restaurant'  
 ReservationOnTable'  
 Incoming\_Order'  
 Address'  
 Reservation'  
 RegisteredCustomer'  
 UnregisteredCustomer'  
 External\_Confencioner'  
 ExternalConfectionerProducts'  
 Alergen\_Material'  
 Material\_Recipe'  
 Product'  
 Alergen'  
 Material'  
 Recipe'  
 IncomingOrderProducts'  
 Product\_Feedback'

Outcoming\_Order\_Material'  
Outcoming\_Order'

## Entity Relationship Diagram

# Entity Relationship Diagram invalidating 2nd normal form



## Summary

Name	Description
ShippingSchedule"	
Driver"	
Table"	
Employee"	
Restaurant"	
ReservationOnTable"	
Incoming_Order"	
Address"	
Reservation"	
RegisteredCustomer"	
UnregisteredCustomer"	
External_Confecioner"	
ExternalConfectionerProducts"	

Alergen_Material"	
Material_Recipe"	
Product"	
Alergen"	
Material"	
Recipe"	
IncomingOrderProducts"	
Outcoming_Order_Material"	
Outcoming_Order"	

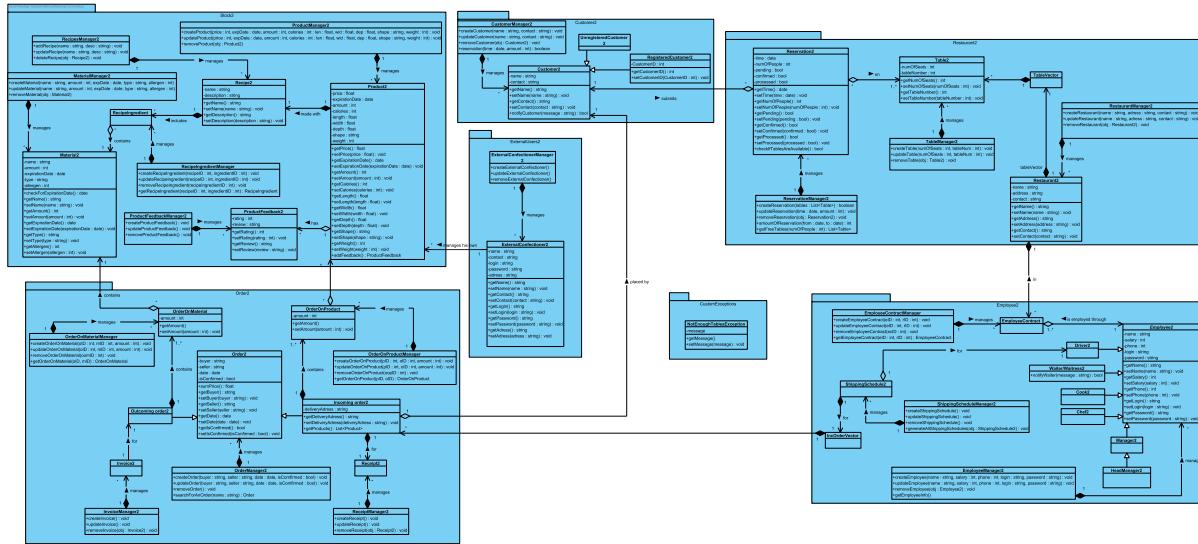
## Details

---

ShippingSchedule"  
 Driver"  
 Table"  
 Employee"  
 Restaurant"  
 ReservationOnTable"  
 Incoming\_Order"  
 Address"  
 Reservation"  
 RegisteredCustomer"  
 UnregisteredCustomer"  
 External\_Confencioner"  
 ExternalConfectionerProducts"  
 Alergen\_Material"  
 Material\_Recipe"  
 Product"  
 Alergen"  
 Material"  
 Recipe"  
 IncomingOrderProducts"  
 Outcoming\_Order\_Material"

Outcoming\_Order"

# Class Diagram



## Summary

Name	Description
Stock2	
Customer2	
CustomerManager2	
ProductManager2	
Restaurant2	
UnregisteredCustomer2	
RecipesManager2	
Reservation2	
RegisteredCustomer2	
Table2	
Customer2	
TableVector	
MaterialManager2	
Recipe2	
Product2	
RestaurantManager2	
RecipeIngredient	
ExternalUsers2	
TableManager2	
ExternalConfectionerManager2	
Material2	
RecipeIngredientManager	
Restaurant2	

ReservationManager2	
ProductFeedback2	
ProductFeedbackManager2	
ExternalConfectioner2	
Order2	
CustomExceptions	
Employee2	
OrderOnProduct	
OrderOnMaterial	
EmployeeContractManager	
EmployeeContract	
NotEnoughTablesException	
Employee2	
OrderOnMaterialManager	
Driver2	
Order2	
OrderOnProductManager	
Waiter/Waitress2	
ShippingSchedule2	
Cook2	
Incoming order2	
ShippingScheduleManager2	
Outcoming order2	
Chef2	
IncOrderVector	
Manager2	
Invoice2	
Receipt2	
OrderManager2	
EmployeeManager2	
HeadManager2	
InvoiceManager2	
ReceiptManager2	

## Details

---

### Stock2

## Children

Name	Description
ProductManager2	
RecipesManager2	
MaterialManager2	
Recipe2	
Product2	
RecipeIngredient	
Material2	
RecipeIngredientManager	
ProductFeedback2	
ProductFeedbackManager2	

## Customer2

### Children

Name	Description
CustomerManager2	
UnregisteredCustomer2	
RegisteredCustomer2	
Customer2	

## CustomerManager2

## ProductManager2

## Restaurant2

### Children

Name	Description
Reservation2	
Table2	
TableVector	
RestaurantManager2	
TableManager2	
Restaurant2	
ReservationManager2	

## UnregisteredCustomer2

## RecipesManager2

## Reservation2

## RegisteredCustomer2

Table2

Customer2

TableVector

MaterialManager2

Recipe2

Product2

RestaurantManager2

## RecipeIngredient ExternalUsers2 Children

Name	Description
ExternalConfectionerManager2	
ExternalConfectioner2	

TableManager2  
ExternalConfectionerManager2  
Material2  
RecipeIngredientManager  
Restaurant2  
ReservationManager2  
ProductFeedback2  
ProductFeedbackManager2  
ExternalConfectioner2  
Order2  
Children

Name	Description
OrderOnProduct	
OrderOnMaterial	
OrderOnMaterialManager	
Order2	
OrderOnProductManager	
Incoming order2	
Outcoming order2	
Invoice2	
Receipt2	
OrderManager2	
InvoiceManager2	
ReceiptManager2	

## CustomExceptions

## Children

Name	Description
NotEnoughTablesException	

## Employee2

### Children

Name	Description
EmployeeContractManager	
EmployeeContract	
Employee2	
Driver2	
Waiter/Waitress2	
ShippingSchedule2	
Cook2	
ShippingScheduleManager2	
Chef2	
IncOrderVector	
Manager2	
EmployeeManager2	
HeadManager2	

OrderOnProduct

OrderOnMaterial

EmployeeContractManager

EmployeeContract

NotEnoughTablesException

Employee2

OrderOnMaterialManager

Driver2

Order2

OrderOnProductManager

Waiter/Waitress2

ShippingSchedule2

Cook2

Incoming order2

ShippingScheduleManager2  
Outcoming order2

Chef2

IncOrderVector

Manager2

Invoice2

Receipt2

OrderManager2

EmployeeManager2

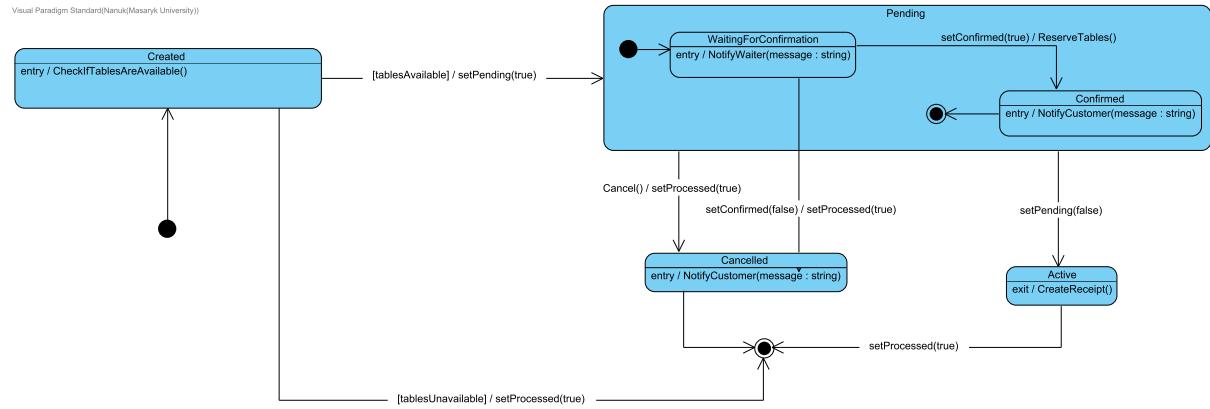
HeadManager2

InvoiceManager2

ReceiptManager2

# State Machine Diagram

## Reservation



## Summary

Name	Description
Region	
Pending	
WaitingForConfirmation	
Confirmed	
Cancelled	
Created	
Active	

## Details

N/A

Region  
Children

Name	Description
N/A	
WaitingForConfirmation	
Confirmed	
N/A	

## Pending Regions

Name	Description
Region	
NotifyWaiter	

## WaitingForConfirmation Regions

Name	Description
NotifyWaiter(message : string)	
Confirm/DenyReservation	
ConfirmReservation	
NotifyCustomer	

## Confirmed Regions

Name	Description
NotifyCustomer(message : string)	
ReserveTables	

## N/A Cancelled N/A N/A Created Regions

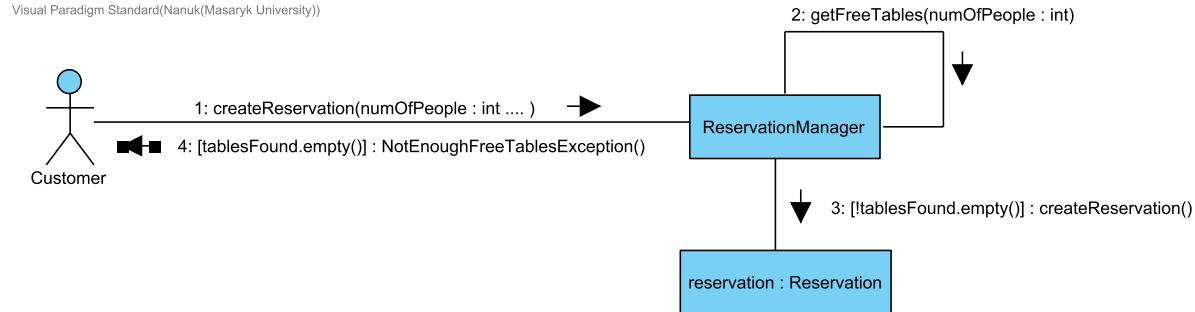
Name	Description
NotifyWaiter	
CheckIfTablesAreAvailable()	
NotifyCustomerThatReservationIsWaitingForConfirmation	
GetReservationParameters	

## Active Regions

Name	Description
AccountOrders()	
CreateReceipt()	

# Communication Diagram

## Reserve a table



## Summary

Name	Description
Customer	
createReservation(numOfPeople : int .... )	
ReservationManager	
getFreeTables(numOfPeople : int)	
[!tablesFound.empty()]: createReservation()	
reservation : Reservation	
[tablesFound.empty()]: NotEnoughFreeTablesException()	

## Details

### Customer

createReservation(numOfPeople : int .... )

### ReservationManager

getFreeTables(numOfPeople : int)

[!tablesFound.empty()]: createReservation()

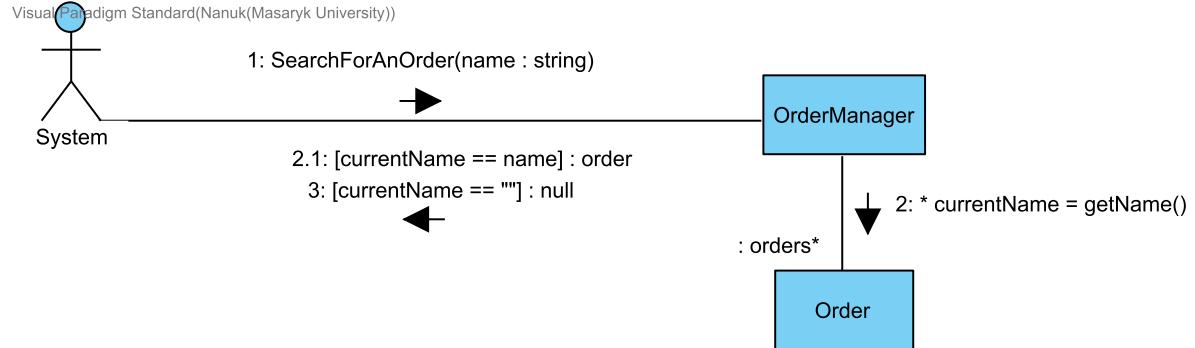
reservation : Reservation

[tablesFound.empty()]:

NotEnoughFreeTablesException()

# Communication Diagram

## Search for an order



## Summary

---

Name	Description
OrderManager	
orders*	
Order	
[currentName == name] : order	
System	
SearchForAnOrder(name : string)	
* currentName = getName()	
[currentName == ""] : null	

## Details

---

OrderManager

orders\*

Order

[currentName == name] : order

System

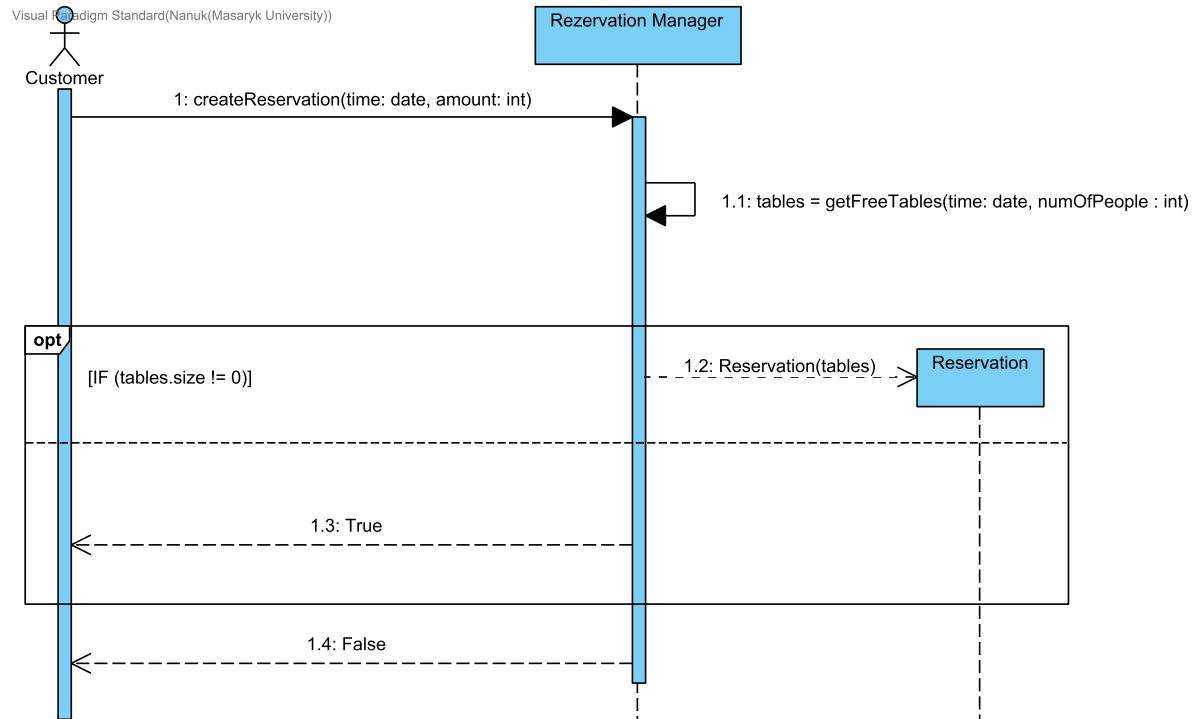
SearchForAnOrder(name : string)

\* currentName = getName()

[currentName == ""] : null

# Sequence Diagram

## (Customer) Place an order



## Summary

Name	Description
Customer	
Rezervation Manager	
Reservation	
IF (tables.size != 0)	
Operand3	
Operand2	

## Details

Customer

Rezervation Manager

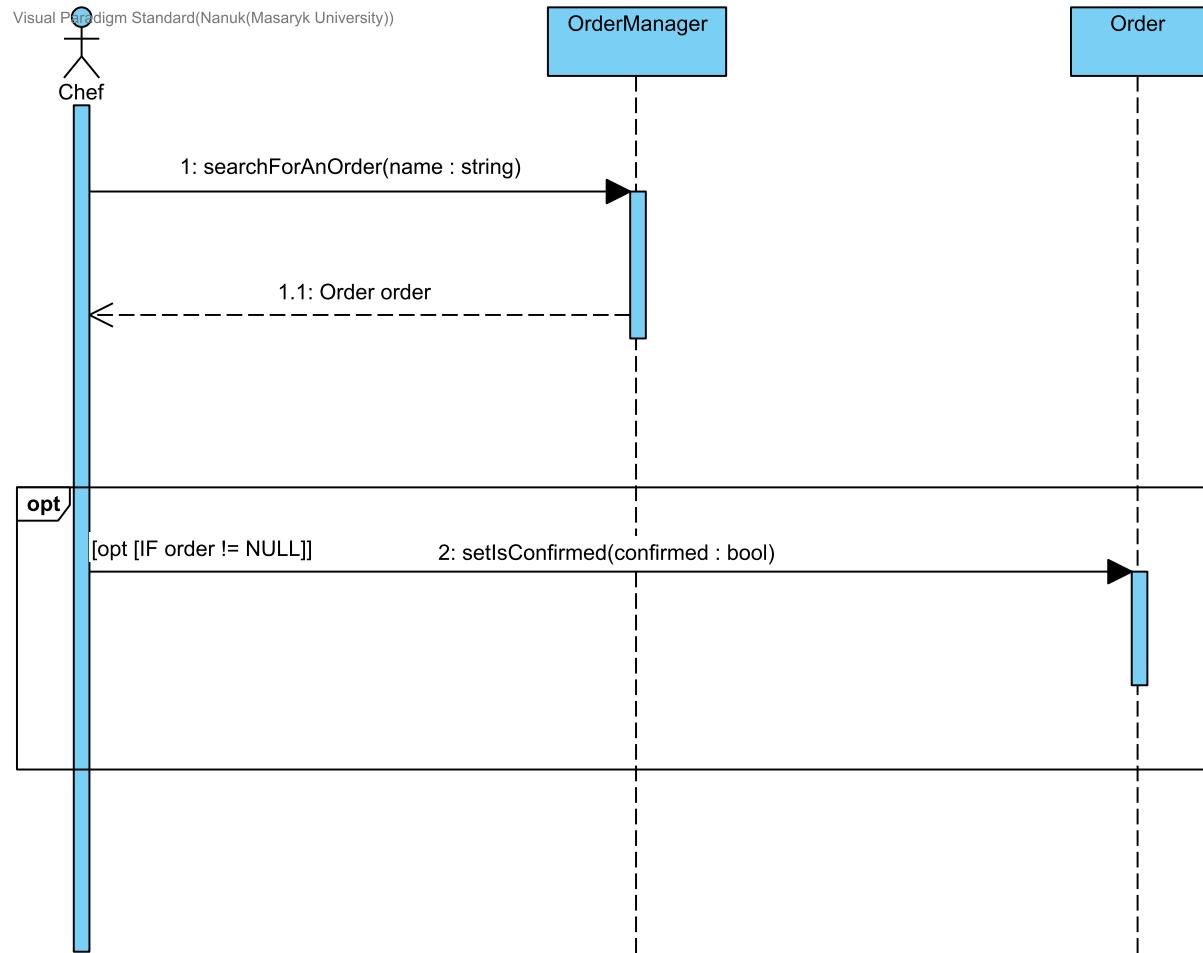
Reservation

IF (tables.size != 0)

Operand3

Operand2

# Sequence Diagram (Chef) Confirm customer order



## Summary

Name	Description
Chef	
OrderManager	
Order	
Operand4	
opt [IF order != NULL]	

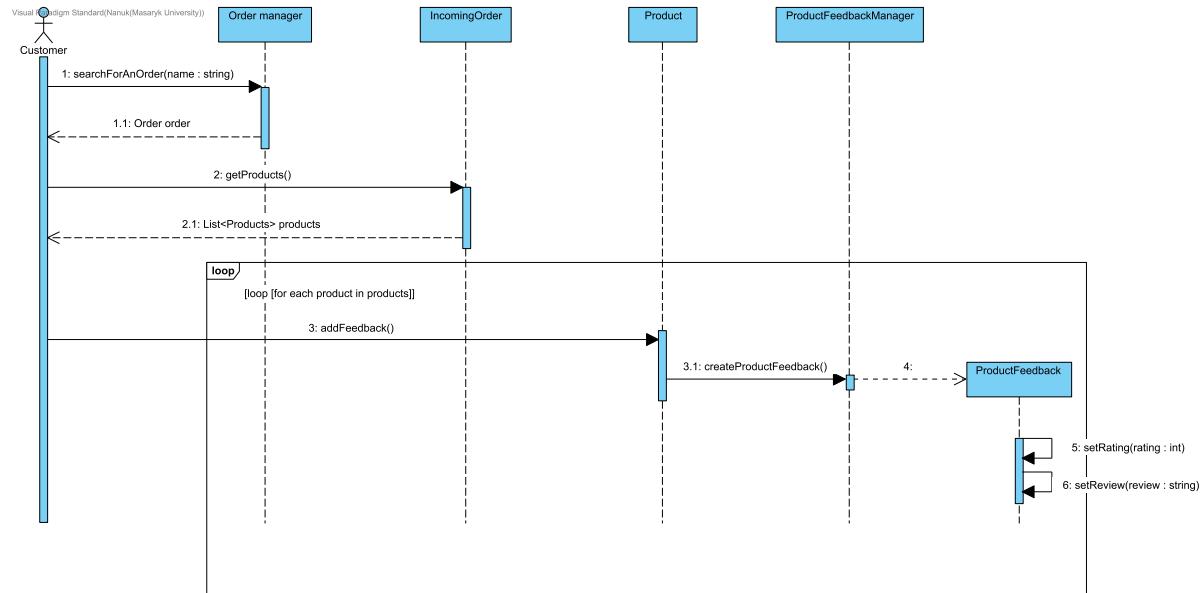
## Details

Chef  
OrderManager  
Order

Operand4  
opt [IF order != NULL]

## Sequence Diagram

# Rate and review ordered products



## Summary

Name	Description
Customer	
Order manager	
IncomingOrder	
Product	
ProductFeedbackManager	
ProductFeedback	
Operand	
loop [for each product in products]	

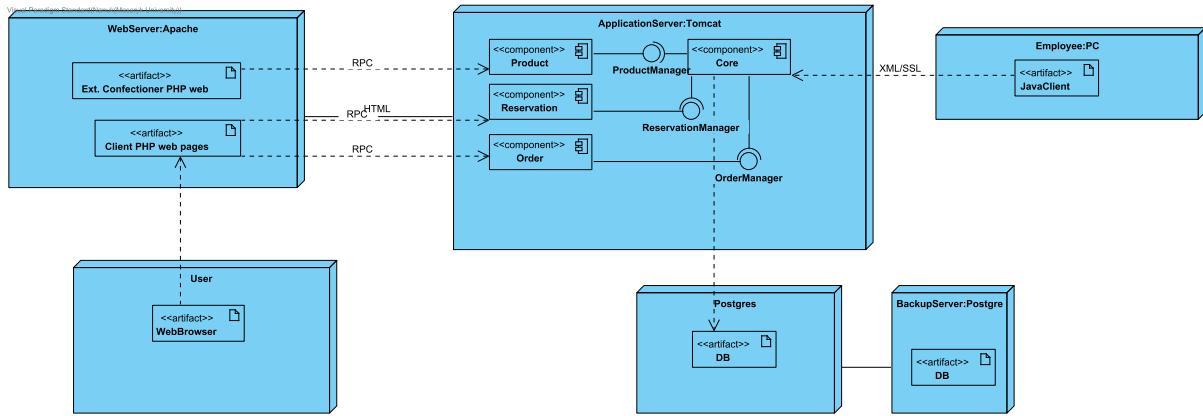
## Details

**Customer**  
**Order manager**  
**IncomingOrder**  
**Product**  
**ProductFeedbackManager**  
**ProductFeedback**  
**Operand**

loop [for each product in products]

## Deployment Diagram

# Deployment Diagram



## Summary

---

Name	Description
ApplicationServer:Tomcat	
WebServer:Apache	
Employee:PC	
Product	
Core	
ProductManager	
JavaClient	
Ext. Confectioner PHP web pages	
Reservation	
ReservationManager	
Client PHP web pages	
Order	
OrderManager	
User	
Postgres	
BackupServer:Postgre	
WebBrowser	
DB	
DB	

## Details

---

### ApplicationServer:Tomcat

## Resident Components

Name	Description
Core	
Reservation	
Order	
Product	

WebServer:Apache

Employee:PC

Product

Core

ProductManager

JavaClient

Ext. Confectioner PHP web pages

Reservation

ReservationManager

Client PHP web pages

Order

OrderManager

User

Postgres

BackupServer:Postgre

WebBrowser

DB

DB