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# Use Cases

for

# WaitrApp

Version 1.0 approved

Prepared by Group W:

LUT course: CT70A2000 Requirements Engineering of Autumn 2021

13.10.2021

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## Version history

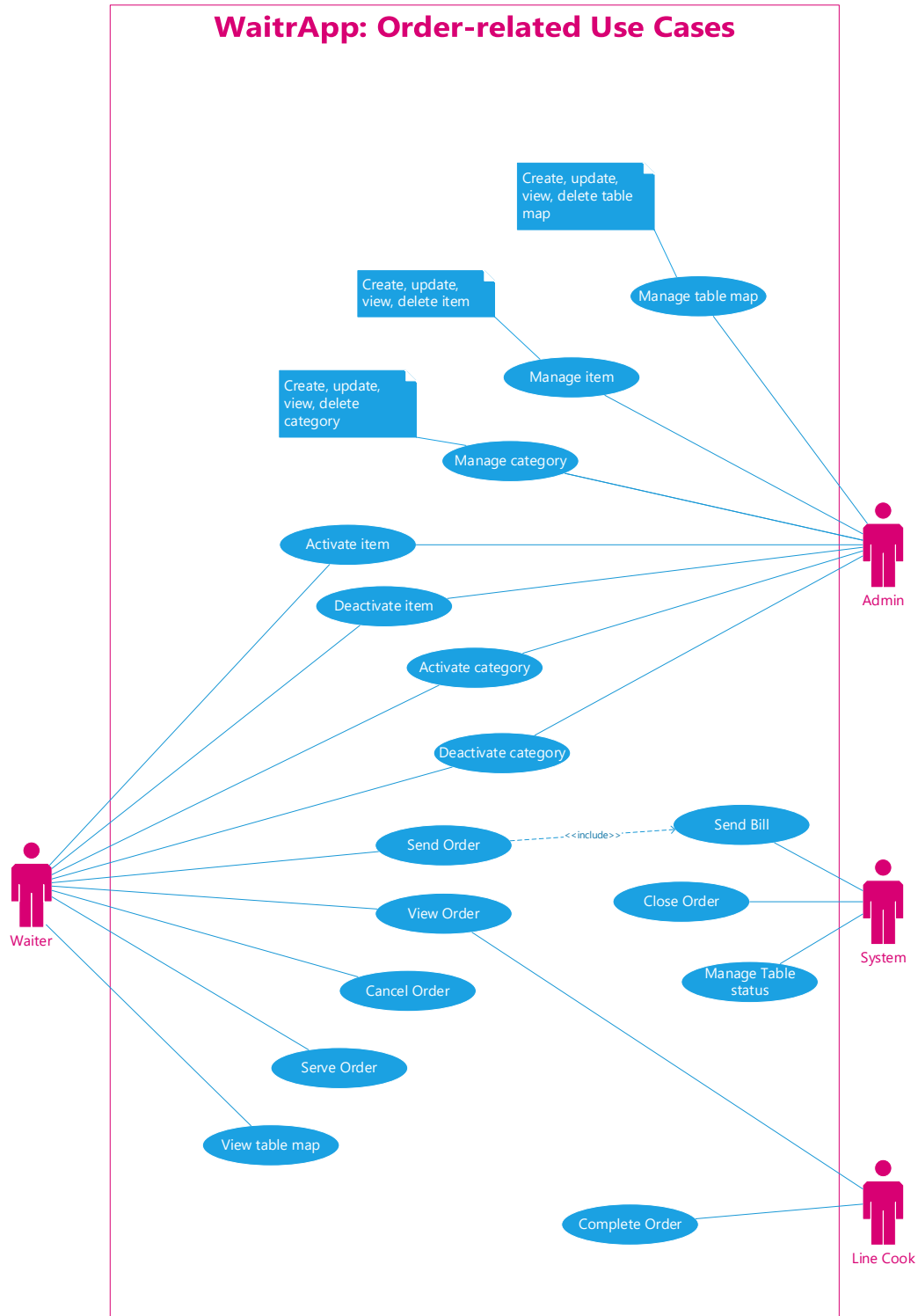
Name	Date	Reason For Changes	Version
Group W Designer	20.09.2021	Initial Draft	0.1
Group W Designer	29.09.2021	Use cases added according to use case diagram	0.2
Group W Designer	01.10.2021	Use case updates	0.3
Group W Designer	04.10.2021	Final document with Included number references inside the use cases, modified descriptions where necessary, table formatting.	0.4
Group W Designer	08.10.2021	Developer sign-off	0.5
Group W Designer	13.10.2021	Document approvals with customer	1.0

## 1.1. Actors, Goals and Use Case Briefs

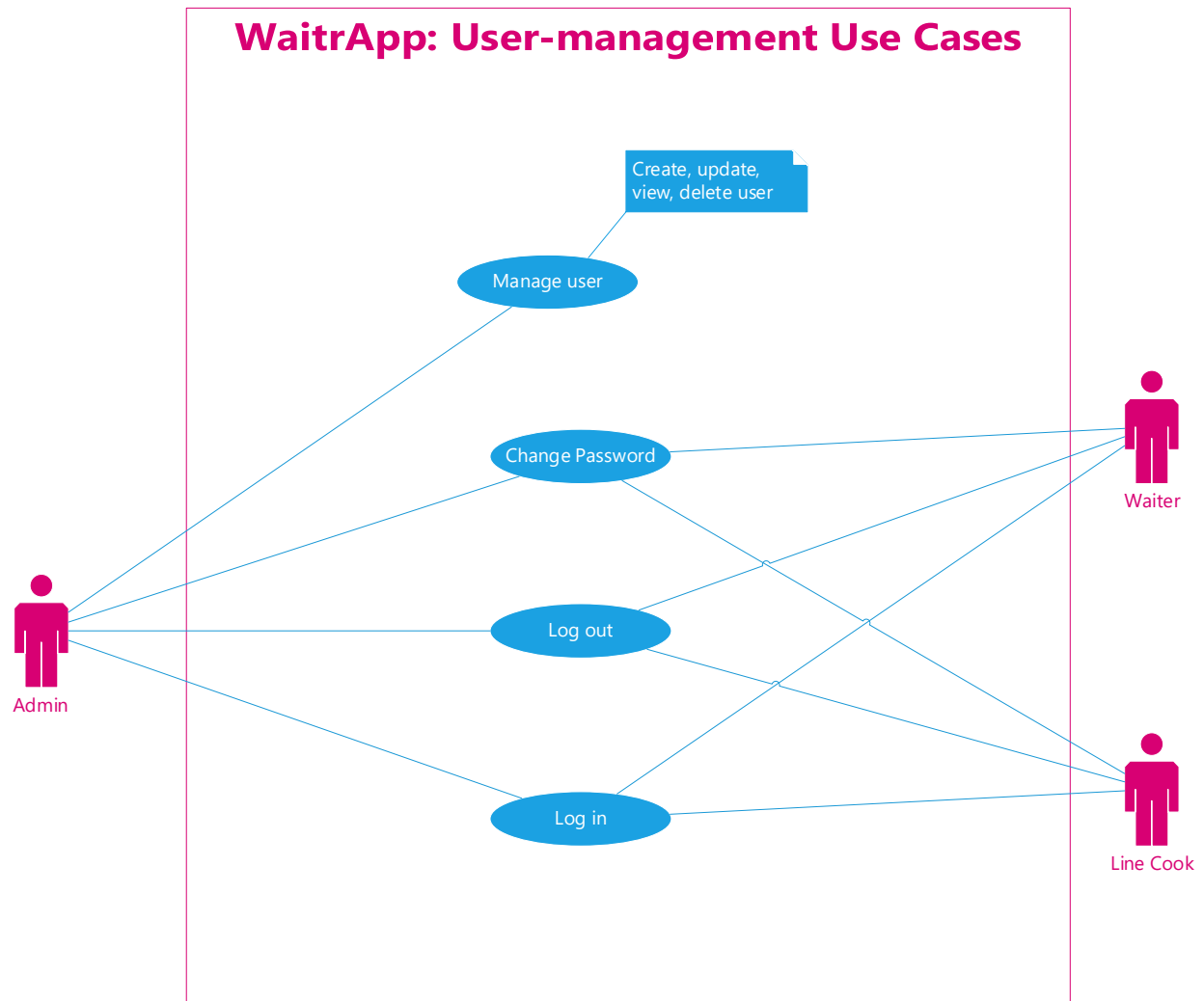
Actors	Description
Admin	This actor is admin of the system. This actor will have the permission to manage all accounts, items, categories in the system.
Waiter	This actor is the waiter of the restaurant. This actor will have the permission to manage all orders in the system
Line Cook	This actor is the line cook of the restaurant. This actor will have the permission to view and complete the orders in the system
POS system	This is external system. This external system will process the payment of all orders.

## 1.2. Use Case Diagram

### 1.2.1 Order-related Use Case diagram



## 1.2.2 User-management Use Case diagram



### 1.3. Use Case Specifications

This section covers the system's functional requirements which detail what the system must do in terms of input, behavior and the expected output. It elicits the interaction between the actor(s) and the system, the system's behavior and the results of their interactions.

#### 1.3.1 UC 1: Send Order

Use Case Identification and History			
<b>Use Case ID:</b>	UC 1		
<b>Use Case Name:</b>	Send Order	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows a waiter to send an order to the line cook.		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Waiter		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	<ul style="list-style-type: none"> <li>Waiter selects a table from table map OR</li> <li>Waiter selects to create an order</li> </ul>		
<b>Frequency of Use:</b>	High		

Preconditions
<ul style="list-style-type: none"> <li>The actor must be logged into the application.</li> </ul>

Basic Flow		
Step	User Actions	System Actions
1	The actor selects one table	The system displays category list via <b>UC 12: Manage Category</b> (Basic Flow 3)
2	The actor selects item and submits quantity	The system adds item to the order with corresponding quantity.
3	Repeat step 2 for all desired items in the order.	
4	The actor confirms order	<ul style="list-style-type: none"> <li>The system creates an order for selected table in Step 1</li> <li>The system changes the status of selected table via <b>UC 6: Manage Table Status</b></li> </ul>

Basic Flow		
Step	User Actions	System Actions
5		<ul style="list-style-type: none"> <li>The system sets the order status = “IN PROGRESS”</li> <li>The system displays “The order has been sent successfully” message.</li> <li>The system creates a bill via <b>UC 5: Send Bill</b> for the corresponding order.</li> <li>The system sends the order to the line cook.</li> </ul>

Alternate Flow 1- Step 1 (Basic flow): The actor selects to create order (without selecting any table)		
Step	User Actions	System Actions
1a	The actor selects to create an order	The system displays category list via <b>UC 12: Manage Category</b>
Continue with step 2,3 as in Basic flow		
4a	The actor sends order	The system creates an order (no table is assigned)
Continue with step 5 as in Basic flow.		
Alternate Flow 2- Step 2 (Basic flow): The actor may deselect the selected items		
Step	User Actions	System Actions
2b	The actor deselects selected items.	The system removes corresponding items from order.
Alternate Flow 3- Step 4 (Basic flow): There is no item selected when the actor sends order		
Step	User Actions	System Actions
4b	The actor sends order	<ul style="list-style-type: none"> <li>The system prompts an error message and ask to select item(s).</li> <li>The use case resumes at basic flow, step 2</li> </ul>

Post conditions
<ul style="list-style-type: none"> <li>An order with OrderID has been created successfully</li> <li>The order has been sent to the line cook.</li> </ul>

Includes or Extension Points
<p>Include use cases:</p> <ul style="list-style-type: none"> <li>UC 5: Send Bill</li> <li>UC 6: Manage Table Status</li> <li>UC 12: Manage Category</li> </ul>

<b>Special Requirements</b>
<b>Business Rules</b>
BR1.1: Only table having status = “AVAILABLE” can be selected in step 1 (Basic flow)
BR1.2: Only items having status = “ACTIVE” can be selected in step 2 (Basic flow)
<b>Other Notes (Assumptions, Issues)</b>

### 1.3.2 UC 2: View Order

Use Case Identification and History			
<b>Use Case ID:</b>	UC 2		
<b>Use Case Name:</b>	View Order	<b>Version No:</b>	1.0
<b>End Objective:</b>	This use case allows user to view the details of an existing Order		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	29.09.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Waiter, Line Cook		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	Actor selects to view an existing order (from order list)		
<b>Frequency of Use:</b>	High		

<b>Preconditions</b>
<ul style="list-style-type: none"> <li>The actor must be logged into the application.</li> <li>There is at least one order in the system with the status “IN PROGRESS”</li> </ul>

Basic Flow		
Step	User Actions	System Actions
1	The actor selects to view the order detail	The system displays the order details in view mode.

<b>Post conditions</b>
<ul style="list-style-type: none"> <li>The detailed information of the order is displayed in view mode.</li> </ul>



### 1.3.3 UC 3: Complete Order

Use Case Identification and History			
<b>Use Case ID:</b>	UC 3		
<b>Use Case Name:</b>	Complete Order	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows a Line Cook to mark order as completed.		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Line Cook		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	Actor selects to complete the order		
<b>Frequency of Use:</b>	High		

Preconditions
<ul style="list-style-type: none"> <li>The actor must be logged into the application.</li> <li>The order status = “IN PROGRESS”</li> </ul>

Basic Flow		
Step	User Actions	System Actions
1	The actor selects to view detailed order via <b>UC 2: View Order</b>	The system triggers <b>UC 2: View Order</b>
2	The actor selects to complete order	The system sets the order status = “READY TO SERVE”

Post conditions
The order’s status has been changed to “READY TO SERVE”

Includes or Extension Points
Include use cases: <ul style="list-style-type: none"> <li>UC 2: View order</li> </ul>

### 1.3.4 UC 4: Serve Order

Use Case Identification and History			
Use Case ID:	UC 4		
Use Case Name:	Serve Order	Version No:	1.1
End Objective:	This use case allows a Waiter to serve order.		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	04.10.2021
Approved by:		On (date):	13.10.2021
User/Actor:	Waiter		
Business Owner Name:		Contact Details:	wendy@vegburgers.co
Trigger:	Actor selects to serve the order		
Frequency of Use:	High		

Preconditions
<ul style="list-style-type: none"> <li>The actor must be logged into the application.</li> <li>The order status = “READY TO SERVE”</li> </ul>

Basic Flow		
Step	User Actions	System Actions
1	The actor selects to view detailed order via <b>UC 2: View Order</b> use case	The system triggers <b>UC 2: View Order</b> use case
2	The actor selects to serve order	The system sets the order status = “SERVED”

Post conditions
The order’s status has been changed to “SERVED”

Includes or Extension Points
Include use cases: <ul style="list-style-type: none"> <li>UC 2: View order</li> </ul>

### 1.3.5 UC 5: Send Bill

Use Case Identification and History
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<b>Use Case ID:</b>	UC 5		
<b>Use Case Name:</b>	Send Bill	<b>Version No:</b>	1.0
<b>End Objective:</b>	This use case allows the system to send a bill of an order to POS system		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	29.09.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	System		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	System creates a new order		
<b>Frequency of Use:</b>	High		

**Preconditions**

N/A

**Basic Flow**

Step	User Actions	System Actions
1	N/A	The system creates a new order
2	N/A	<ul style="list-style-type: none"> <li>The system retrieves information of the order and creates a bill accordingly.</li> <li>The system sets the bill status = "UNPAID"</li> </ul>
3	N/A	The system sends the bill information to the POS system

**Post conditions**

The bill is sent to POS successfully

**Business Rules**

BR 5.1: API information of POS to send bill in Step 3:

- POST /api/pos HTTP/1.1
- Host: host:port
- Content-Type: application/json
- Data:
  - BillID
  - Total Amount

### 1.3.6 UC 6: Manage Table Status

Use Case Identification and History			
<b>Use Case ID:</b>	UC 6		
<b>Use Case Name:</b>	Manage Table Status	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows the system to change the status of table		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	System		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	<ul style="list-style-type: none"> <li>The waiter selects table OR</li> <li>The waiter sends order OR</li> <li>The system sets order's status = "CLOSED"</li> </ul>		
<b>Frequency of Use:</b>	High		

#### Preconditions

The system sets default status of table = "AVAILABLE"

#### Basic Flow

Step	User Actions	System Actions
1	The waiter selects table via <b>UC 1: Send Order</b> use case	The system sets status of table = "HOLDING"
2	The waiter sends order via <b>UC 1: Send Order</b> use case	The system sets status of table = "OCCUPIED"
3	N/A	<ul style="list-style-type: none"> <li>The system sets status of order = "CLOSED" via <b>UC 7: Close Order</b> use case</li> <li>The system sets status of table = "AVAILABLE"</li> </ul>

#### Post conditions

The table status is changed successfully.

#### Business Rules

BR 6.1: In step 2 (basic flow), the status of table would remain "OCCUPIED" when the order's status is follows:

- IN PROGRESS
- READY TO SERVE
- SERVED

Includes or Extension Points
Include use cases: <ul style="list-style-type: none"> <li>UC 1: Send order</li> <li>UC 7: Close Order</li> </ul>

### 1.3.7 UC 7: Close Order

Use Case Identification and History			
Use Case ID:	UC 7		
Use Case Name:	Close Order	Version No:	1.0
End Objective:	This use case allows the system to close an order		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	29.09.2021
Approved by:		On (date):	13.10.2021
User/Actor:	POS System		
Business Owner Name:		Contact Details:	wendy@vegburgers.co
Trigger:	POS processes the payment		
Frequency of Use:	High		

Preconditions
The order's status = "SERVED"

Basic Flow		
Step	User Actions	System Actions
1	POS processes the payment and send the response to the WaitrApp	<ul style="list-style-type: none"> <li>The system sets the status of corresponding bill as "PAID"</li> <li>The system sets the status of corresponding order as "CLOSED"</li> </ul>

Post conditions
<ul style="list-style-type: none"> <li>The order status is changed successfully</li> <li>The bill status is changed successfully</li> </ul>

Business Rules
BR 7.1 Transaction Info that the system is received from POS (Step 1 – basic flow) includes:

- Bill ID
- Status of transaction: Successful or Fail
- Date time complete the transaction

BR 7.2 The order with status “CLOSED” cannot be modified, served, completed or canceled. User can only view a “CLOSED” order

### 1.3.8 UC 8: Cancel Order

Use Case Identification and History			
<b>Use Case ID:</b>	UC 8		
<b>Use Case Name:</b>	Cancel Order	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows the waiter to cancel an order		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Waiter		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	The actor chooses to cancel an order		
<b>Frequency of Use:</b>	Medium		

Preconditions
The order's status = “IN PROGRESS”

Basic Flow		
Step	User Actions	System Actions
1	The actor chooses to cancel an order	<ul style="list-style-type: none"> <li>• The system sets the status of the order as “CANCELLED”</li> <li>• The system sets the status of the bill of corresponding order as “CANCELLED”</li> <li>• The system informs the POS system that the bill is cancelled</li> </ul>

Post conditions
<ul style="list-style-type: none"> <li>• The order status is changed successfully</li> <li>• The bill status is changed successfully</li> </ul>

- The bill is cancelled in the POS system

**Business Rules**

BR 8.1 The order with status “CANCELLED” cannot be modified, served, completed, or closed. User can only view a “CANCELLED” order

**Other Notes (Assumptions, Issues,)**

Assumptions:

- The system will not be responsible for any conflicts if the food is under preparation when the action “Cancel Order” happens.
- The decision to cancel the order completely depends on the real situation and the person who makes the decision.

**1.3.9 UC 9: Manage Item**

Use Case Identification and History			
<b>Use Case ID:</b>	UC 9		
<b>Use Case Name:</b>	Manage Item	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows the admin to manage items. Includes view a list of items, create item, update item and delete item.		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Admin		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	The actor chooses to manage an item.		
<b>Frequency of Use:</b>	Medium		

**Preconditions**

The actor must be logged into the application using admin credentials.

<b>Basic Flow</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
<b>1. Create Item</b>		
<b>1.1</b>	The actor chooses the option to create a new item	The system displays corresponding user interface view
<b>1.2</b>	The actor inputs data for the new item and chooses to save.	The system validates data
<b>1.3</b>	N/A	The system creates new item with the input data
<b>2. Update Item</b>		
<b>2.1</b>	The actor selects to update item	The system displays corresponding user interface view
<b>2.2</b>	The actor inputs new data and chooses to save	The system validates data
<b>2.3</b>	N/A	The system updates the item with the input data
<b>3. View Item list</b>		
<b>3.1</b>	The actor selects to view item list	The system displays corresponding user interface view
<b>4. Delete Item</b>		
<b>4.1</b>	The actor selects to delete item	The system displays confirmation dialog
<b>4.2</b>	The actor confirms to delete item	The system deletes item.

<b>Alternative Flow</b>		
<b>1a. Create Item: System validates data fail (Step 1.2 – Basic Flow)</b>		
<b>1a.3</b>	N/A	The system displays error message.
<b>2a. Update Item: System validates data fail (Step 2.2 – Basic Flow)</b>		
<b>2a.3</b>	N/A	The system displays error message.
<b>4a. Delete Item: The actor chooses not to delete item (Step 4.2 – Basic Flow)</b>		
<b>4a.2</b>	The actor selects not to delete the item	The system goes back to the screen where the user stands in step 4.1 – basic flow.



<b>Post conditions</b>
<ol style="list-style-type: none"> <li>1. A new item is created</li> <li>2. The item is updated</li> <li>3. The list of items is displayed</li> <li>4. The item is deleted</li> </ol>
<b>Business Rules</b>
BR 9.1 (Step 1.1 – Basic Flow) The system will load the Create Item screen
BR 9.2 (Step 2.1 – Basic Flow) The system will display the Item screen in edit mode
BR 9.3 (Step 1.2, 2.2 – Basic Flow) Validation Rules: <ul style="list-style-type: none"> <li>• If any mandatory field is blank, the system will display message “Please input in this field” under this field</li> <li>• If the Item name is existed, system shows error message “This name is existed”</li> </ul>

### 1.3.10UC 10: Activate Item

<b>Use Case Identification and History</b>			
<b>Use Case ID:</b>	UC 10		
<b>Use Case Name:</b>	Activate Item	<b>Version No:</b>	1.0
<b>End Objective:</b>	This use case allows the actor to activate an item		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	29.09.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Admin, Waiter		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	The actor chooses to activate item		
<b>Frequency of Use:</b>	Medium		

<b>Preconditions</b>
<ul style="list-style-type: none"> <li>• The actor must be logged into the application.</li> </ul>

- The item's status = "INACTIVE"

Basic Flow		
Step	User Actions	System Actions
1	The actor selects an item to activate	The system displays confirmation dialog
2	The actor confirms to activate the item	The system sets the status of selected item = "ACTIVE"

Post conditions
1. Item status is "ACTIVE" and can be added to orders

### 1.3.11 UC 11: Deactivate Item

Use Case Identification and History			
Use Case ID:	UC 11		
Use Case Name:	Deactivate Item	Version No:	1.1
End Objective:	This use case allows the actor to deactivate an item		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	04.10.2021
Approved by:		On (date):	13.10.2021
User/Actor:	Admin, Waiter		
Business Owner Name:		Contact Details:	wendy@vegburgers.co
Trigger:	The actor chooses to deactivate item		
Frequency of Use:	Medium		

Preconditions
<ul style="list-style-type: none"> <li>• The actor must be logged into the application.</li> <li>• The item's status = "ACTIVE"</li> <li>• The item does not belong to any orders having status = "IN PROGRESS"</li> </ul>

Basic Flow		
Step	User Actions	System Actions
1	The actor selects an item to deactivate	The system displays confirmation dialog

Basic Flow		
Step	User Actions	System Actions
2	The actor confirms to deactivate the item	The system sets the status of selected item = "INACTIVE"

Post conditions
1. Item status is "INACTIVE" and cannot be added to orders

### 1.3.12 UC 12: Manage Category

Use Case Identification and History			
Use Case ID:	UC 12		
Use Case Name:	Manage Category	Version No:	1.1
End Objective:	This use case allows the admin to manage the category including view a list of categories, create category, update category and delete category.		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	04.10.2021
Approved by:		On (date):	13.10.2021
User/Actor:	Admin		
Business Owner Name:		Contact Details:	wendy@vegburgers.co
Trigger:	The actor chooses to manage the category.		
Frequency of Use:	Medium		

Preconditions
The actor must be logged into the application.

Basic Flow		
Step	User Actions	System Actions
<b>1. Create Category</b>		
1.1	The actor chooses the option to create a new category	The system displays corresponding UI view
1.2	The actor inputs data	N/A
1.3	The actor views item list via Manage Item use case (Basic Flow 3)	The system triggers Manage Item use case (Basic Flow 3)

<b>Basic Flow</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
<b>1.4</b>	The actor selects items to include in the category and choose to save	The system validates data
<b>1.5</b>	N/A	The system creates new category
<b>2. Update Category</b>		
<b>2.1</b>	The actor selects to update category	The system displays corresponding UI view
<b>2.2</b>	The actor inputs data	N/A
<b>2.3</b>	The actor views item list via <b>UC 9: Manage Item</b> (Basic Flow 3)	The system triggers <b>UC 9: Manage Item</b> (Basic Flow 3)
<b>2.4</b>	The actor selects items to include in the category and choose to save	The system validates data
<b>2.5</b>	N/A	The system update category
<b>3. View Category list</b>		
<b>3.1</b>	The actor selects to view category list	The system displays corresponding screen
<b>4. Delete Category</b>		
<b>4.1</b>	The actor selects to delete category	The system displays confirmation dialog
<b>4.2</b>	The actor confirms to delete category	The system delete category.

<b>Alternative Flow</b>		
<b>1a. Create Category: System validates data fail (Step 1.4 – Basic Flow)</b>		
<b>1a.5</b>	N/A	The system displays error message.
<b>2a. Update Category: System validates data fail (Step 2.4 – Basic Flow)</b>		
<b>2a.4</b>	N/A	The system displays error message.
<b>4a. Delete Item: The actor chooses not to delete category (Step 4.2 – Basic Flow)</b>		

Alternative Flow		
<b>4a.2</b>	The actor selects not to delete the category	The system goes back to the screen where the user stands in step 4.1 – basic flow.

Post conditions
<ol style="list-style-type: none"> <li>5. A new category is created</li> <li>6. The category is updated</li> <li>7. The list of categories is displayed</li> <li>8. The category is deleted</li> </ol>

Includes or Extension Points
UC 9: Manage item

Special Requirements
N/A

Business Rules
BR 12.1 (Step 1.1 – Basic Flow) The system will load the Create Category screen BR 12.2 (Step 2.1 – Basic Flow) The system will display the Category screen in edit mode BR 12.3 (Step 1.4, 2.4 – Basic Flow) Validation Rules: <ul style="list-style-type: none"> <li>• If any mandatory field is blank, the system will display message “Please input in this field” under this field</li> <li>• If the Item name is already in use, system shows error message “This name is in use”</li> </ul>

### 1.3.13 UC 13: Activate Category

Use Case Identification and History			
<b>Use Case ID:</b>	UC 13		
<b>Use Case Name:</b>	Activate Category	<b>Version No:</b>	1.0
<b>End Objective:</b>	This use case allows the actor to activate a category		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	29.09.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Admin, Waiter		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	The actor chooses to activate category		

<b>Frequency of Use:</b>	Medium
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<b>Preconditions</b>
<ul style="list-style-type: none"> <li>The actor must be logged into the application.</li> <li>The category's status = "INACTIVE"</li> </ul>

<b>Basic Flow</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	The actor selects a category to activate	The system displays confirmation dialog
2	The actor confirms to activate the category	The system sets the status of selected category = "ACTIVE"

<b>Post conditions</b>
The category's status is changed successfully to "ACTIVE"

<b>Business Rules</b>
BR 13.1 The status of the category will not impact to the status of items and vice versa.

### 1.3.14 UC 14: Deactivate Category

<b>Use Case Identification and History</b>			
<b>Use Case ID:</b>	UC 14		
<b>Use Case Name:</b>	Deactivate Category	<b>Version No:</b>	1.0
<b>End Objective:</b>	This use case allows the actor to deactivate a category		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	29.09.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Admin, Waiter		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	The actor chooses to deactivate category		
<b>Frequency of Use:</b>	Medium		

<b>Preconditions</b>
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- The actor must be logged into the application.
- The category's status = "ACTIVE"

Basic Flow		
Step	User Actions	System Actions
1	The actor selects a category to deactivate	The system displays confirmation dialog
2	The actor confirms to deactivate the category	The system sets the status of selected category = "INACTIVE"

**Post conditions**

The category's status is changed successfully to "INACTIVE"

**Includes or Extension Points****Special Requirements**

N/A

**Business Rules**

BR 14.1 The status of the category will not impact to the status of items and vice versa.

### 1.3.15 UC 15: Manage User

Use Case Identification and History			
<b>Use Case ID:</b>	UC 15		
<b>Use Case Name:</b>	Manage User	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows the admin to manage the user profile including view a list of users, create user, update user and delete user.		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Admin		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	The actor chooses to manage the user accounts.		
<b>Frequency of Use:</b>	Low		

**Preconditions**

The actor must be logged into the application using admin credentials.

### Basic Flow

Step	User Actions	System Actions
<b>1. Create User</b>		
<b>1.1</b>	The actor chooses the option to create a new user	The system displays corresponding UI view
<b>1.2</b>	The actor inputs data related to the new user	The system validates data
<b>1.3</b>	N/A	The system creates new user using the input data
<b>2. Update User</b>		
<b>2.1</b>	The actor selects to update user	The system displays corresponding UI view
<b>2.2</b>	The actor inputs data	The system validates data
<b>2.3</b>	N/A	The system update user using the input data
<b>3. View user list</b>		
<b>3.1</b>	The actor selects to view user list	The system displays corresponding UI view
<b>4. Delete User</b>		
<b>4.1</b>	The actor selects to delete user	The system displays confirmation dialog
<b>4.2</b>	The actor confirms to delete user	The system deletes user.

### Alternative Flow

#### 1a. Create User: System validates data fail (Step 1.2 – Basic Flow)

<b>1a.3</b>	N/A	The system displays error message.
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#### 2a. Update User: System validates data fail (Step 2.4 – Basic Flow)

<b>2a.2</b>	N/A	The system displays error message.
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#### 4a. Delete Item: The actor chooses not to delete user (Step 4.2 – Basic Flow)



Alternative Flow		
4a.2	The actor selects not to delete the user	The system goes back to the screen where the user stands in step 4.1 – basic flow.
Post conditions		
<ol style="list-style-type: none"> <li>1. A new user is created</li> <li>2. The user is updated</li> <li>3. The list of users is displayed</li> <li>4. The user is deleted</li> </ol>		
Includes or Extension Points		
Special Requirements		
N/A		
Business Rules		
BR 15.1 (Step 1.1 – Basic Flow) The system will load the Create User screen		
BR 15.2 (Step 2.1 – Basic Flow) The system will display the User Profile screen in edit mode		
BR 15.3 (Step 1.2, 2.2 – Basic Flow) Validation Rules:		
<ul style="list-style-type: none"> <li>• If any mandatory field is blank, the system will display message “Please input in this field” under this field</li> <li>• If the User is existed, system shows error message “This user is existed”. The User is considered as existed when: <ul style="list-style-type: none"> <li>○ The email and name are both existed.</li> </ul> </li> </ul>		

**1.3.16 UC 16: Login**

Use Case Identification and History			
<b>Use Case ID:</b>	UC 16		
<b>Use Case Name:</b>	Login	<b>Version No:</b>	1.1
<b>End Objective:</b>	This use case allows the user to login into the system to access the relevant functions according to the user's role.		
<b>Created by:</b>		<b>On (date):</b>	29.09.2021
<b>Last Update by:</b>		<b>On (date):</b>	04.10.2021
<b>Approved by:</b>		<b>On (date):</b>	13.10.2021
<b>User/Actor:</b>	Authorized users		
<b>Business Owner Name:</b>		<b>Contact Details:</b>	wendy@vegburgers.co
<b>Trigger:</b>	User selects to log in		
<b>Frequency of Use:</b>	High		

Preconditions
The user must have a valid account

Basic Flow		
Step	User Actions	System Actions
1	User selects to log in	The system displays corresponding UI view
2	User input userID and password then select to log in	The system validates the credentials
3		The system verifies that the userID and password are correct
4	N/A	<ul style="list-style-type: none"> <li>The system logs in the user to the system</li> <li>The system displays the user's homepage</li> </ul>

Alternate Flow 1: Missing mandatory fields		
Step	User Actions	System Actions
2a	User does not input userID or password before pressing the log in button	<ul style="list-style-type: none"> <li>The system prompts for userID and password</li> <li>Use case resumes at basic flow step 1</li> </ul>

Alternate Flow 1: Missing mandatory fields		
Step	User Actions	System Actions
Alternate Flow 2: Exceeding the maximum attempts		
Step	User Actions	System Actions
2b	User input userID and password then select to log in	<ul style="list-style-type: none"> <li>The system displays “Maximum attempts exceeded, contact administrator” message</li> <li>The system locks user account</li> </ul>
Alternate Flow 3: Invalid userID and/ or password		
Step	User Actions	System Actions
3a	N/A	<ul style="list-style-type: none"> <li>The system displays error message “Invalid userID and password” message</li> <li>The system resumes at basic flow step 1.</li> </ul>

Post Conditions
<ul style="list-style-type: none"> <li>User is logged in successfully</li> <li>The system displays the relevant homepage depending on the account type</li> </ul>

Business Rules
BR 16.1 The maximum attempts to login are 3 attempts. (Alternative flow 2)

### 1.3.17UC 17: Log out

Use Case Identification and History			
Use Case ID:	UC 17		
Use Case Name:	Log out	Version No:	1.0
End Objective:	This use case allows the user to log out from the system		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	29.09.2021
Approved by:		On (date):	13.10.2021
User/Actor:	All authenticated users		
Business Owner Name:		Contact Details:	wendy@vegburger.co
Trigger:	User selects to log out		
Frequency of Use:	High		

Preconditions
The user is logged in

Basic Flow		
Step	User Actions	System Actions
1	User selects to log out	The system displays confirmation pop-up
2	User confirms to log out	<ul style="list-style-type: none"> <li>The system displays “You have been logged out successfully”</li> <li>The system resumes to log in screen</li> </ul>

Alternate Flow User selects not to log out from the system		
Step	User Actions	System Actions
2a	User selects not to log out from the system	The system goes back to the screen where the user stands in step 1 – basic flow.

Post Conditions
User is logged out successfully

### 1.3.18 UC 18: Change Password

Use Case Identification and History			
Use Case ID:	UC 18		
Use Case Name:	Change Password	Version No:	1.1
End Objective:	This use case allows all users to change the passwords		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	04.10.2021
Approved by:		On (date):	13.10.2021
User/Actor:	Authorized users		
Business Owner Name:		Contact Details:	wendy@vegburgers.co
Trigger:	The actor chooses to change the password.		
Frequency of Use:	Low		

Preconditions
The actor must be logged into the application.

Basic Flow		
Step	User Actions	System Actions
1	The actor chooses the option to change the password	The system displays corresponding UI view
2	The actor inputs the current password	The system verifies data
3	The actor inputs the new password	The system validates that the new password matches the password requirements
4	N/A	The system updates the password and notifies the user that the password has been changed

Alternative Flow 1: Actor input wrong current password (Step 2 – Basic flow)		
2a	The actor inputs the current password wrongly	The system displays error “Invalid password” message.
Alternative Flow 2: Exceeding the maximum attempts		
2b	The actor inputs the current password wrongly over 5 times	<ul style="list-style-type: none"> <li>The system displays “Maximum attempts exceeded” message</li> <li>The system resumes at basic flow step 1.</li> </ul>
Alternative Flow 3: The new password does not meet the password’s requirement (Step 2 – Basic flow)		
3a	The actor inputs the new password	<p>The system displays error message:</p> <p><i>“Please create a password follow the instruction:</i></p> <ul style="list-style-type: none"> <li><i>At least 8 characters</i></li> <li><i>A mixture of both uppercase and lowercase letters</i></li> <li><i>A mixture of letters and numbers</i></li> <li><i>Inclusion of at least one special character, e.g., ! @ # ? ] ”</i></li> </ul>

**Post conditions**

The password is updated successfully

**Includes or Extension Points****Special Requirements**

N/A

**Business Rules**

BR 18.1 (Step 1 – Basic Flow) The system will load the Change password screen

BR 18.2 (Step 2– Basic Flow) The maximum attempts are 5 times

BR 18.3 (Step 3 – Basic Flow) The password rules:

- At least 8 characters
- A mixture of both uppercase and lowercase letters
- A mixture of letters and numbers
- Inclusion of at least one special character, e.g., ! @ # ? ]

### 1.3.19 UC 19: Manage Table

Use Case Identification and History			
Use Case ID:	UC 19		
Use Case Name:	Manage Table	Version No:	1.0
End Objective:	This use case allows the admin to manage the table map including view a list of tables, create table, update table and delete table.		
Created by:		On (date):	29.09.2021
Last Update by:		On (date):	29.09.2021
Approved by:		On (date):	13.10.2021
User/Actor:	Admin		
Business Owner Name:		Contact Details:	wendy@vegburgers.co
Trigger:	The actor chooses to manage the tables		
Frequency of Use:	Low		

Preconditions
The actor must be logged into the application.

Basic Flow		
Step	User Actions	System Actions
<b>1. Create Table</b>		
1.1	The actor chooses the option to create a new table	The system displays corresponding UI view
1.2	The actor inputs the new table data	The system validates data
1.3	N/A	The system creates new table with the input data
<b>2. Update Table</b>		
2.1	The actor selects to update table	The system displays corresponding UI view
2.2	The actor inputs new data about the table	The system validates data
2.3	N/A	The system update table with the input data
<b>3. View table map</b>		
3.1	The actor selects to view table map	The system displays corresponding UI view
<b>4. Delete table</b>		
4.1	The actor selects to delete a specific table	The system displays confirmation dialog
4.2	The actor confirms the deletion of the table	The system deletes the selected table

Alternative Flow		
<b>1a. Create Table: System data validation fails (Step 1.2 – Basic Flow)</b>		
<b>1a.3</b>	N/A	The system displays error message.
<b>2a. Update Table: System data validation fails (Step 2.4 – Basic Flow)</b>		
<b>2a.2</b>	N/A	The system displays error message.
<b>2b. Update Table: The selected table has status = “HOLDING” or “OCCUPIED”</b>		
<b>2b.1</b>	The actor selects to update table	The system displays error message “This table is in use, cannot update”
<b>4a. Delete Table: The actor chooses not to delete table (Step 4.2 – Basic Flow)</b>		
<b>4a.2</b>	The actor selects not to delete the table	The system goes back to the screen where the user stands in step 4.1 – basic flow.
<b>4b. Delete Table: The selected table has status = “HOLDING” or “OCCUPIED”</b>		
<b>4b.1</b>	The actor selects to delete table	The system displays error message “This table is in use, cannot delete”



Post conditions
<ol style="list-style-type: none"> <li>1. A new table is created</li> <li>2. The table is updated</li> <li>3. The list of table/ table map is displayed</li> <li>4. The table is deleted</li> </ol>

Business Rules
<p>BR 19.1 (Step 1.1 – Basic Flow) The system will load the Create Table screen</p> <p>BR 19.2 (Step 2.1 – Basic Flow) The system will display the Table screen in edit mode</p> <p>BR 15.3 (Step 1.2, 2.2 – Basic Flow) Validation Rules:</p> <ul style="list-style-type: none"> <li>• If any mandatory field is blank, the system will display message “Please input in this field” under this field</li> <li>• If the input tableID is in use, system shows error message “This tableID is invalid”.</li> </ul> <p>BR 15.4 (Step 2.1, 4.1 – Basic Flow) The table having status = “HOLDING” or “OCCUPIED” cannot be updated or deleted.</p>



## Use Case Approval – 13.10.2021

The undersigned acknowledge they have reviewed the **WaitrApp Use Cases** and agree with the approach it presents. Any changes to this Document will be coordinated with Change Coordination Board and approval documented by the undersigned or their designated representatives.

Signature:  Date: 13.10.2021  
Print Name:   
Title: Quite Senior Designer  
Role: Provider, Group W Designer

Signature:  Date: 13.10.2021  
Print Name:   
Title: CEO  
Role: Sponsor

Signature:  Date: 08.10.2021  
Print Name:   
Title: Almost a Developer  
Role: Provider, Group W Developer

## Appendix A: References

The following table summarizes the documents relevant for the project.

Document Name and Version	Description	Location
WaitrApp Vision and Scope v.1.0	Vision and Scope of WaitrApp solution	Project site
WaitrApp Requirements Management Plan v.2.0	Requirements Management Plan for WaitrApp solution	Project site
WaitrApp Software Requirements Specification v.1.0	Software Requirements Specification of WaitrApp solution	Project site
WaitrApp Sustainability Analysis of Requirements Specification v.1.0	Sustainability Analysis of Requirements Specification on WaitrApp solution	Project site

## Appendix B: Use Case Approval - Template

The undersigned acknowledge they have reviewed the **WaitrApp Use Cases** and agree with the approach it presents. Any changes to this Document will be coordinated with Change Coordination Board and approval documented by the undersigned or their designated representatives.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Role: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Role: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Role: \_\_\_\_\_