

# COMP 1531 Group Project

**Group name:** RAN

**Members:**

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## 1.1 High Level Epic Stories

**Customer:**

As a customer, I should be able to create mains and customise its ingredient properties then place an order. I should also be able to optionally order sides and a drink. I should also be able to then view the net price of the custom meal. I should also be able to checkout to pay and place the order, then be able to check on the status of the order at any time to determine if it is complete.

**Staff:**

As a staff member, I should be able to view the current orders at any time and update their status so that the customer knows when to pick it up. I should also be able to view and update the inventory in order to keep track of the number of ingredients available and replace them if needed.

## 1.2 User Stories

**User story points:** 1 point = 2 hours

**Priority:** 1-6 (highest to lowest)

Story ID	US1
Description	As a <i>customer</i> , I should be able to make burger orders so that I can satisfy my desired food cravings.
Acceptance Criteria:	

- When a customer clicks on a link to place their online order, they should be able to choose if they want to order a “base” burger or a “custom burger”
- If the customer chooses a base burger or wrap, this will have a standard cost associated to it and customers will not be able to customise a standard burger or wrap.
- Should be able to choose the type and quantity of buns:
  - The quantity of the buns is determined by the type of burger:
    - Triple Burgers must have 4 buns
    - Double burgers must have 3 buns
    - Single burgers must have 2 buns
    - Maximum quantity is four buns and only single, double and triple burgers are allowed
- Should be able to choose the type and quantity of patties:
  - The quantity of the burger patties is determined by the type of burger:
    - Triple Burgers must have 3 patties
    - Double burgers must have 2 patties
    - Single burgers must have 1 patty
    - Maximum quantity is 3 patties and only single, double and triple burgers are allowed
- Should be able to choose other ingredients which include:
  - Tomato
  - Lettuce
  - Tomato sauce
  - Cheddar cheese
  - Swiss cheese
- Selected items that are not available for the order should be communicated to the customer after he/she selects “place order” (by determining its availability with the inventory system).
  - The customer will therefore also not be able to select them for his/her order

<b>Estimation</b>	2.5 user points
<b>Priority</b>	2

<b>Story ID</b>	<b>US2</b>
<b>Description</b>	As a <i>customer</i> , I should be able to optionally add sides and drinks so that I can satisfy my appetite.

<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• Should be able to view and order <ul style="list-style-type: none"> <li>○ 6 pack nuggets</li> <li>○ 3 pack nuggets</li> <li>○ Fries - small, medium or large</li> <li>○ Strawberry Sundae - small, medium or large</li> <li>○ Chocolate Sundae - small, medium or large</li> </ul> </li> <li>• Should be able to optionally choose drinks from the menu</li> </ul>	
<b>Estimation</b>	1.5 user points
<b>Priority</b>	3

<b>Story ID</b>	<b>US3</b>
<b>Description</b>	As a <i>customer</i> , I should be able to checkout so that I can confirm and place the order with the food chain.
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• The net price of the meal will be calculated and provided to the customer based on all the custom chosen components.</li> <li>• The customer will be provided an order ID</li> <li>• The order confirmation details will be provided to the staff as well as to back to the customer through the use of the order ID if the payment from the customer was successful.</li> <li>• Once the order is confirmed, the inventory system should be updated by decrementing the appropriate quantity of items or weight for the sides inventory</li> </ul>	
<b>Estimation</b>	3 user points
<b>Priority</b>	4

<b>Story ID</b>	<b>US4</b>
<b>Description</b>	As a <i>customer</i> , I should be able to check on the status of the order at any time in order to be able to determine if it has been completed.
<b>Acceptance Criteria:</b>	

<ul style="list-style-type: none"> <li>• Should be able to enter the confirmation order ID and receive back order status information</li> <li>• Order status information should be updated when the meal is cooked</li> </ul>	
<b>Estimation</b>	1 user points
<b>Priority</b>	6

<b>Story ID</b>	<b>US5</b>
<b>Description</b>	As a <i>staff member</i> , I should be able to view and update an order status so that the customer knows when the order is available for pick up.
<b>Acceptance Criteria:</b> <ul style="list-style-type: none"> <li>• Should be able to log onto the system</li> <li>• Should be able to view the current status of an order at any time ie. "Pending", "Completed" or "Confirmed"</li> <li>• Staff should have a have a list of orders displayed</li> <li>• Should be to update the status of an order to 'Complete' once the order has been cooked. Via a button <ul style="list-style-type: none"> <li>○ Once the order is set to this state, it disappears from the staff orders menu</li> </ul> </li> </ul>	
<b>Estimation</b>	1 user points
<b>Priority</b>	5

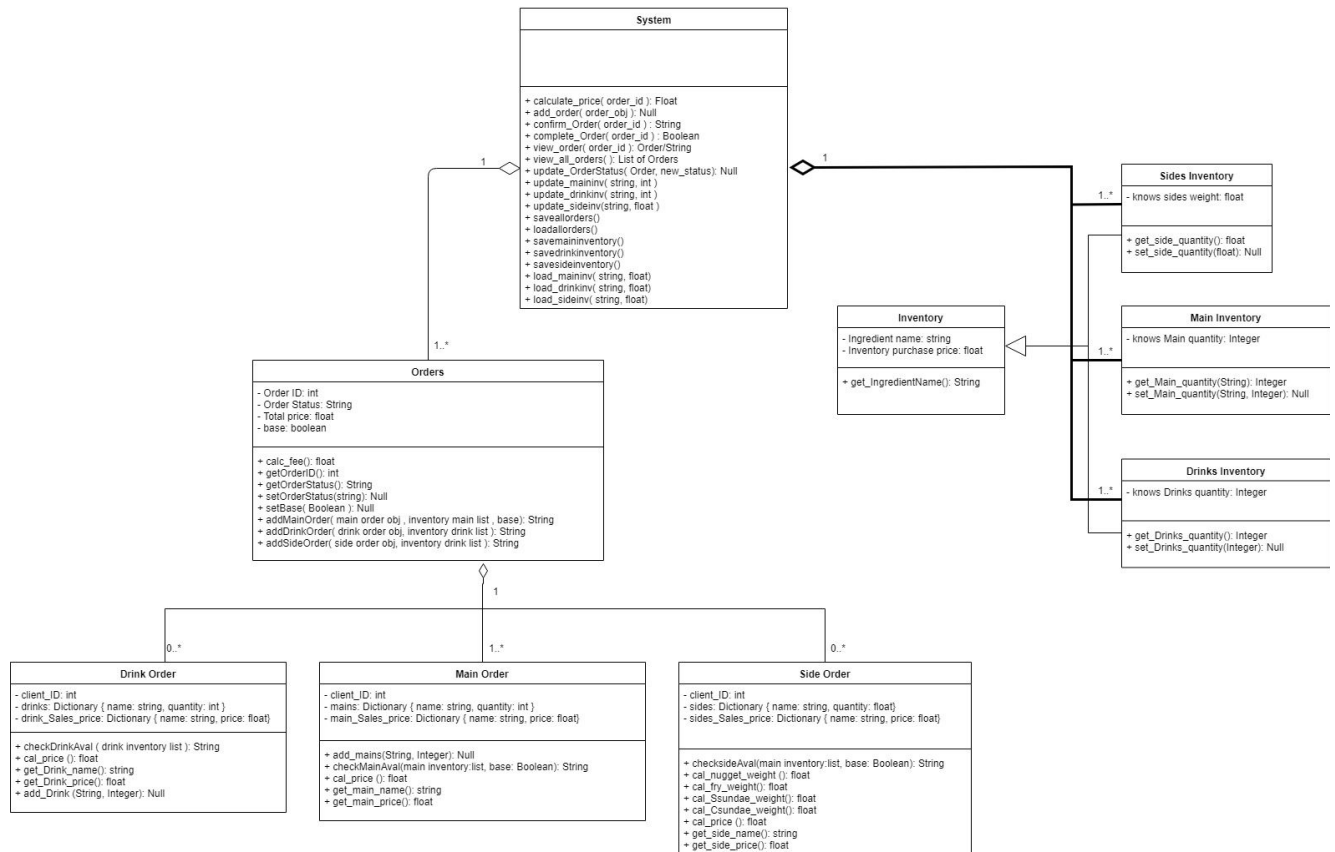
<b>Story ID</b>	<b>US6</b>
<b>Description</b>	As an <i>inventory staff member</i> I should be able to update the inventory of the different ingredients so that I can know what is available and refill the stock if needed.
<b>Acceptance criteria:</b> <ul style="list-style-type: none"> <li>• Should be able to log onto the system</li> <li>• View the inventory levels</li> <li>• edit/update/increase the inventory levels of a particular ingredient/stock item to refill its supply.</li> </ul>	

- Once updated/edited, the new inventory levels should be reflected in the customer facing menu.
- The inventory levels for items such as buns, patties, nuggets and miscellaneous burger/wrap condiments are stocked in whole quantities
- The inventory levels for items such as drinks are measured in cans (375ml) or bottles (600ml)
  - With the exception of juices which are measured in small (250ml) and medium (450ml)
- The inventory levels for sides such as fries, etc are stocked by weight.
  - Small fries (75g), medium fries (125g)

<b>Estimation</b>	2.5 user points
<b>Priority</b>	1

## 2. Class Diagram

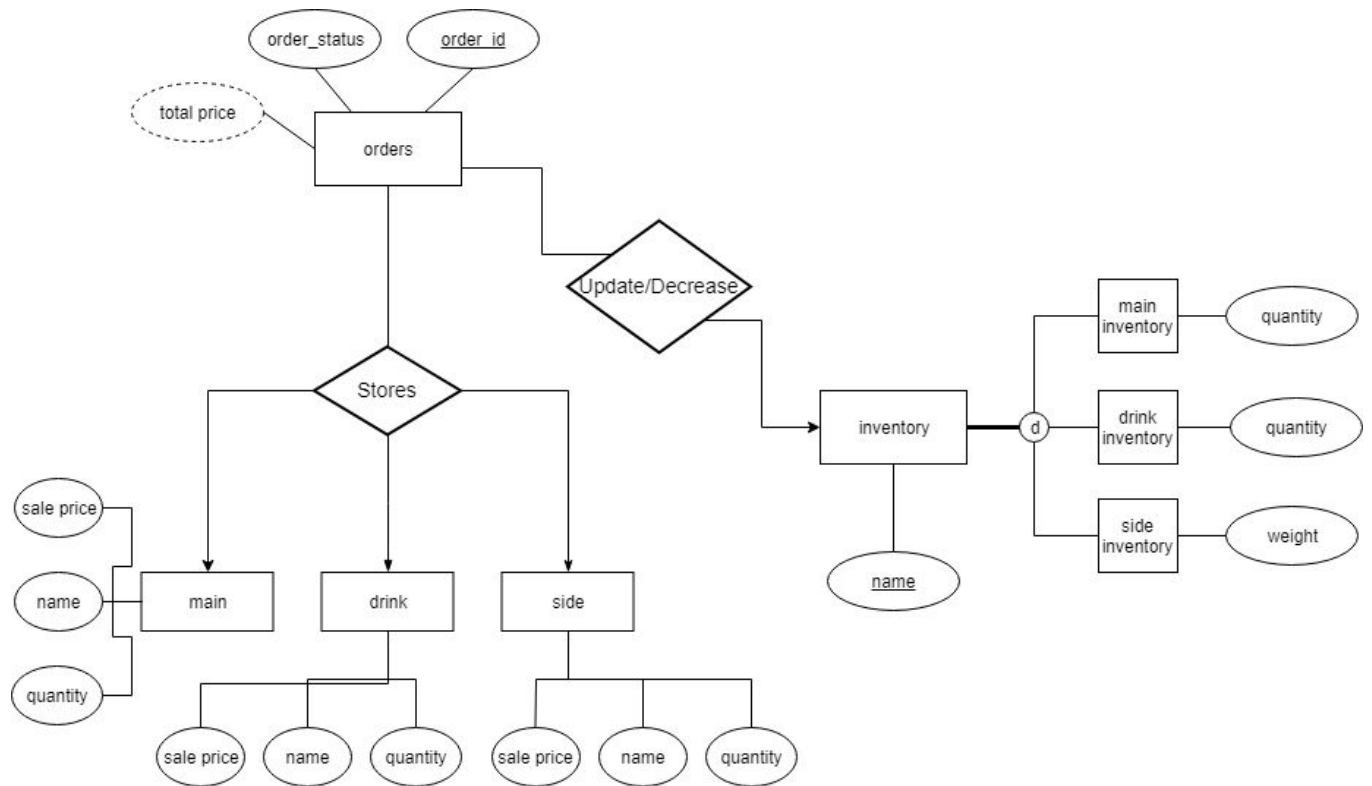
Group RAN: UML class diagram



View Class Diagram here:

<https://drive.google.com/file/d/1gJyfjNNBIYtWL8zrDzWB476sbPOCFh6u/view?usp=sharing>

### 3. Entity-Relationship (ER) Design



View ER diagram here:

<https://drive.google.com/file/d/1P91mb524kN6h4TAI2GZxjbXfPwuK6LCn/view?usp=sharing>

## 4. Log Book

Date	Tasks	Decisions
<b>5th March</b>	<ul style="list-style-type: none"> <li>User-stories started during lab</li> <li>Milestone 1 to be completed</li> </ul>	<ul style="list-style-type: none"> <li>User-stories to be completed by 10th March</li> <li>Team delegation of tasks</li> <li>Breaking down the task into epic stories</li> <li>Breaking the epic stories into atomic stories</li> <li>Creating Acceptance criteria</li> <li>Estimating story points</li> <li>Estimating priority</li> </ul>
<p>Tasks to be accomplished for the next meeting:</p> <ul style="list-style-type: none"> <li>User Story 1 Acceptance Criteria (AL)</li> <li>User Story 2 Acceptance Criteria (AL)</li> <li>User Story 3 Acceptance Criteria (Nicole)</li> <li>User Story 4 Acceptance Criteria (Nicole)</li> <li>User Story 5 Acceptance Criteria (Rebecca)</li> <li>User Story 6 Acceptance Criteria (Rebecca)</li> <li>Estimation of Story Points (Team)</li> <li>Estimation of Priority (Team)</li> </ul> <p>User-stories to be completed by 10th March</p>		

Date	Tasks	Decisions
<b>10th March</b>	User-stories completed, milestone 1 achieved	<ul style="list-style-type: none"> <li>Finalising the use-cases</li> <li>Finalising the Story points and priority</li> <li>Reviewing the Use-cases and Acceptance Criterias</li> </ul>
<p>Tasks to be accomplished for the next meeting:</p> <ul style="list-style-type: none"> <li>Start designing UML class diagram</li> </ul>		

Date	Tasks	Decisions
<b>26th March</b>	UML class diagram generally completed during lab	<ul style="list-style-type: none"> <li>UML class diagram to be finalised by 29th March</li> <li>While completing the diagram we decided to include the inventory classes</li> </ul>



		<ul style="list-style-type: none"> <li>• Inventory class was decided to have an abstract parent that the sides, mains and drinks inherit</li> <li>• Inventory sub classes will contain its ingredients in a dictionary along with quantity</li> <li>• Decide on the orders classes (aggregation was chosen)</li> <li>• Decide on the inventory classes (aggregation was chosen)</li> <li>• Data types and return types decided. Names are strings and quantity ints, etc.</li> </ul>
<p>Tasks to be accomplished for the next meeting:</p> <ul style="list-style-type: none"> <li>• Perform walk through scenarios of the class diagram to validate it (team individually)</li> </ul> <p>UML class diagram to be finalised by 29th March</p>		

Date	Tasks	Decisions
<b>29th March</b>	Data-type and methods added, class diagram finalised	<ul style="list-style-type: none"> <li>• Task delegation for writing the classes</li> <li>• How the overall classes interact</li> </ul>
<p>Tasks to be accomplished for the next meeting:</p> <ul style="list-style-type: none"> <li>• Writing orders related functions (AL)</li> <li>• Writing system (Rebecca)</li> <li>• Writing inventory (Nicole)</li> <li>• Writing tests (ALL)</li> </ul>		

Date	Tasks	Decisions
<b>1st April</b>	<p>Code for first two services started.</p> <ul style="list-style-type: none"> <li>• Made stored ingredients in inventory as individual object instances rather than as one inventory with ingredients in a dictionary</li> </ul>	<ul style="list-style-type: none"> <li>• Inventory classes changed to composition on the Class diagram</li> <li>• Data types and return types:. Names are strings and quantity ints. But exist in a dictionary</li> <li>• How the overall classes interact revised</li> <li>• Create Velocity chart</li> </ul>

Tasks to be accomplished for the next meeting:

- Writing the System Class (AL, Nicole) and related function
- Writing the order - calculate price functions (AL)
- Writing the inventory objects to be added (Nicole)
- Writing more tests (TEAM)
- Create Velocity chart (Rebecca)

Date	Tasks	Decisions
<b>2nd April</b>	Class diagram modified, code for two services continued	<ul style="list-style-type: none"><li>• Code for milestone 2 to be completed by 5th April</li><li>• Creating a sample client to see if the classes interact with each other correctly</li><li>• Deciding how to perform exception handling for orders</li></ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"><li>• Added exception handling for orders (if there is insufficient inventory) (AL)</li><li>• Added handling for incorrect main ingredients (AL)</li></ul> Code for milestone 2 to be completed by 5th April		

Date	Tasks	Decisions
<b>5th April</b>	Code for two services finalised and tested	<ul style="list-style-type: none"><li>• How to changing the sides quantity to decrement by weight. Decided not to change the existing code but to add a function that calculates the total side order weight.</li><li>• Delegation of testing tasks</li></ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"><li>• Decrement inventory based on confirmed orders (AL)</li><li>• Changing the sides quantity to decrement by weight (AL)</li><li>• Changing the side inventory to operate with weight in grams (Nicole)</li><li>• Add more test cases to ensure functions are working correctly and correct error messages are outputted (Nicole)</li><li>• Test correct prices are outputted (AL)</li><li>• Test correct inventory decrements (Nicole)</li></ul>		

Date	Tasks	Decisions
<b>6th April</b>	More tests added ie. tests that corresponded to the acceptance criteria from our user stories	<ul style="list-style-type: none"> <li>• Test cases</li> <li>• Checking correct operations</li> </ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"> <li>• Finalise test cases</li> <li>• Test that sides are stored in inventory - from quantity to weight</li> </ul> Milestone 2 to be achieved by 7th April		

Date	Tasks	Decisions
<b>7th April</b>	Milestone 2 achieved and uploaded	<ul style="list-style-type: none"> <li>• Decide who uploads the product backlog</li> <li>• Pushing a release branch to GIT repo</li> </ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"> <li>• Make a start on the front-end development (Rebecca, AL, Nicole)</li> </ul>		

Date	Tasks	Decisions
<b>16th April</b>	Code for working software started	<ul style="list-style-type: none"> <li>• Make the tables for mains, drinks and sides to be ordered, and inventory for staff to update</li> <li>• Access values in dictionary and display the values in templates</li> <li>• Enable the customer to add mains, drinks and sides to the cart, view the price of the order, confirm orders, and track the status or orders</li> <li>• Enable the staff to complete the order and update the inventory</li> </ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"> <li>• Edit python files and html files to display the orders and inventory pages properly (Nicole)</li> </ul>		

- Edit python files and html files to display the specific customer order and checkout page properly (AL)

Date	Tasks	Decisions
<b>17th April</b>	Code for staff panel finished Standard base burger and wrap added to main Error checking added to main	<ul style="list-style-type: none"> <li>• Persistence of orders and inventory to be implemented</li> </ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"> <li>• Persistence of orders and inventory (AL)</li> <li>• Use cookies to keep inventory numbers and orders (AL)</li> </ul>		

Date	Tasks	Decisions
<b>18th April</b>	Persistence of orders and inventory implemented	<ul style="list-style-type: none"> <li>• Add new item "Sundae" to the menu</li> </ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"> <li>• New item "Sundae" with three sizes (AL)</li> <li>• New Sundae items created in inventory according to weight (Nicole)</li> </ul>		

Date	Tasks	Decisions
<b>19th April</b>	Sundae item completed	<ul style="list-style-type: none"> <li>• Test cases for acceptance criteria to be added</li> </ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"> <li>• Test cases for the acceptance criteria (Rebecca, Nicole)</li> <li>• Modification for the final class diagram (AL)</li> </ul>		

Date	Tasks	Decisions
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<b>22th April</b>	Working software and test cases finished, user stories with clearly defined acceptance criteria updated, class diagram modified	<ul style="list-style-type: none"><li>ER model to be completed during next meeting</li></ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"><li>An entity-relationship (ER) design for application (Rebecca, Nicole, AL)</li></ul>		

Date	Tasks	Decisions
<b>23th April</b>	ER design finished	<ul style="list-style-type: none"><li>Upload the final report to the <i>master</i> branch</li></ul>
Tasks to be accomplished for the next meeting: <ul style="list-style-type: none"><li>Final report combined and uploaded (Rebecca, Nicole, AL)</li></ul>		

