COMP 1531 Group Project

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1.Product Backlog A product backlog with well-defined user-stories *(5 marks)*

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 *customer*, I should be able to make two types of mains (burgers or wraps) orders so that I can satisfy my desired food cravings.
Acceptance Criteria: ● 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

Estimation	2.5 user points
Priority	2

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

Acceptance Criteria:
- Should be able to view and order
  - 6 pack nuggets
  - 3 pack nuggets
  - Fries - small, medium or large
- Should be able to optionally choose drinks from the menu

Estimation	1.5 user points
Priority	3

Story ID	**US3**
Description	As a *customer*, I should be able to checkout so that I can confirm and place the order with the food chain.

Acceptance Criteria:
- The net price of the meal will be calculated and provided to the customer based on all the custom chosen components.
- The customer will be provided an order ID
- 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.
- Once the order is confirmed, the inventory system should be updated by decrementing the appropriate quantity of items or weight for the sides inventory

Estimation	3 user points
Priority	4

Story ID	**US4**
Description	As a *customer*, 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.

Acceptance Criteria:
- Should be able to enter the confirmation order ID and receive back order status information
- Order status information should be updated when the meal is cooked

Estimation	1 user points
Priority	6

Story ID	US5
Description	As a *staff member*, I should be able to view and update an order status so that the customer knows when the order is available for pick up.

Acceptance Criteria:
- Should be able to log onto the system
- Should be able to view the current status of an order at any time ie. "Pending", "Completed" or "Confirmed"
- Staff should have a have a list of orders displayed
- Should be to update the status of an order to 'Complete' once the order has been cooked. Via a button
    - Once the order is set to this state, it disappears from the staff orders menu

Estimation	1 user points
Priority	5

Story ID	US6
Description	As an *inventory staff member* 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.

Acceptance criteria:
- Should be able to log onto the system
- View the inventory levels
- edit/update/increase the inventory levels of a particular ingredient/stock item to refill its supply.
    - 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)

Estimation	2.5 user points
Priority	1

2.Design

class diagram showing appropriate use of OO Design and traceability of user-stories to class diagram *(10 marks)*

1. Implementation *(10 marks)*
    - demonstrate working software of key features as requested for milestone *(5 marks)*
    - detailed pytest that demonstrate trace ability of acceptance criteria to pytest cases *(5 marks)*
2. Proper use of GitHub *(3 marks)*
3. Log Book *(2 marks)*