Final Report

Group: Transferred-Students

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User Stories

Notes:

- *For Size, 1 User story Point = 4 hours*
- *For Priority, High > Middle > Low*

User 1: Customers

Epic Story 1: As a customer, I should be able to order mains, sides, and drinks and check the status of my order online, so that I can order food online and collect them quickly.

ID	US 1.1
Name	Choose between “base” and “custom” mains
User-Story Description: As a customer, I want to have an option to choose between base mains and custom mains. **Acceptance Criteria:** 1. For their mains, a customer should be given an option between a burger and a wrap 2. If the customer selects “base” mains, they must pay the associated cost to select the item. 3. “Base” mains cannot be customized. 4. If the customer chooses to customize a burger, he/she should have the option for selecting the specification of buns. 5. If the customer chooses to customize a wrap, he/she should option for selecting the specification of the patty. 6. The customer’s choice should be stored in the application.	
Priority	High
Size	2 SP

ID	US 1.2
Name	Selection of buns and patties
User-Story Description: As a customer, I want to specify the type and number of buns and patties I want on my custom burger or wrap, so that can I accommodate my taste and dietary preferences.	

Acceptance Criteria:

1. The customer should be able to choose the type of bun and patties they want in their custom burger or wrap.
2. The customer should be able to choose the number of buns and patties they want.
    a. If the customer chooses a number greater than the maximum limit, the error message should be shown saying ”maximum of ‘maximum limit’ buns/patties allowed ” and allow them to enter the number again.
3. The customers choice should be stored in the application.

Priority	High
Size	1 SP

ID	US 1.3
Name	Addition of extra ingredients

User-Story Description:

As a customer, I want to add some extra ingredients to my main, so that I can make my meal more delicious.

Acceptance Criteria:

1. A customer should be able to add extra ingredients to their main, the list of ingredient customers can order including but not limited to:
    a. Tomato
    b. Lettuce
    c. Tomato sauce
    d. Cheddar cheese
    e. Swiss cheese
2. After selecting his preferences the customer should be directed to the review of the main.
3. The customer’s choices should be stored in the application.

Priority	High
Size	2 SP

ID	US 1.4
Name	Review your creation

User-Story Description:

As a customer, I want to see the net price of my gourmet creation, so that I can review accept my choice or discard it.

Acceptance Criteria:

1. After the customers are done with customizing, they should be brought to a review page to review the ingredients they selected.
2. Based on the customer's choices, the price of each ingredient in the number should be retrieved to calculate the final price of the main.
3. If customers click delete button, then this gourmet creation would be removed from their order

Priority	High
Size	1 SP

ID	US 1.5
Name	Choose Sides

User-Story Description:

As a customer, I want an option to add a side dish to my order so that I can be more satisfied with my meal.

Acceptance Criteria:

1. A customer can optionally choose the following sides to add to his order including but not limited to:
    a. French Fries
    b. Chicken nuggets
2. The price of each side dish should be retrieved and added to the total price of the order.
3. Customers can review their orders and the total price.
4. At this point, the customers may click "Review Order" and check out if they are satisfied with their selections so far

Priority	High
Size	2 SP

ID	US 1.6
Name	Choose drinks

User-Story Description:

As a customer, besides the main and sides, I want to optionally order drink(s), so that I can make my meal more satisfying.

Acceptance Criteria:

1. A customer can choose and add drinks into their orders.
2. The price of each drink should be retrieved and added to the total price of the order
3. Customers can review their orders and the total price.

4. At this point, the customers may click “Review Order” and check out if they are satisfied with their selections so far.	
Priority	High
Size	2 SP

ID	US 1.7
Name	Choose Sundaes
User-Story Description: As a customer, I want to optionally order sundaes, so that I can make my meal more satisfying. **Acceptance Criteria:** 1. A customer can choose and add sundaes into their orders. 2. The price of each sundae should be retrieved and added to the total price of the order 3. Customers can review their orders and the total price. 4. At this point, the customers may click “Review Order” and check out if they are satisfied with their selections so far.	
Priority	High
Size	2 SP

ID	US 1.8
Name	Review your order
User-Story Description: As a customer, I want to be able to review the final order with its total price of my order, so that I can ensure I order what I want. **Acceptance Criteria:** 1. Customers should be able to Review all the item he has ordered including the ingredients for the main. 2. The customer should be able to view the total price of the order 3. The customer should be given the option of Checkout 4. The customer should be given options to delete any items from their order. 5. If the customer chooses Checkout & make payment option he should be redirected to a secure page(the banking service of business) to securely make payment for his	
Priority	Middle
Size	1 SP

ID	US 1.9
Name	Checkout & make payment

User-Story Description:

As a customer, I wanna be able to check out, so I can confirm and pay for my order.

Acceptance Criteria:

1. When the customer selects the checkout & make payment option, he should be redirected to a secure page(business banking service) to make his payment
2. If the payment is confirmed(depending upon the information from the bank's page), the customer should be shown the success message and issued a unique order ID.
3. The order ID should be linked to the customer's order and stored as the main index for the order.
4. If the payment failed(depending upon the information from the bank's page) the customer should be shown a failed message and given the option to try again.
5. Should some items in the customer's orders be unavailable at the time of checkout, the customer should not be able to checkout successfully.

Priority	High
Size	3 SP

ID	US 1.10
Name	Check the status of the order

User-Story Description:

As a customer, I want to track my order using its order-id, so that I can see if my order is completed.

Acceptance Criteria:

1. Customers should get an order-id after successful payment.
2. Customers should have the option of tracking existing orders as soon as they open the website.
3. Customers can type their order-id in an order text field of the website.
4. If this order-id does not exist, it shows that it is invalid.
5. If this order-id is valid, then it shows the status of the order: in progress or completed.

Priority	Middle
Size	3 SP

User 2: Staff - Service Orders

Epic Story 2: As a staff in charge of servicing online orders, I should be able to view the current orders and update the status of them, so that I can deal with online orders easily.

ID	US 2.1
Name	View current orders
User-Story Description: As a staff in charge of servicing online orders, I should be able to view the current orders, so I can know when another customer has added an order on time. **Acceptance Criteria:** 1. Staff can view the current orders in the staff orders menu at any time.	
Priority	High
Size	2 SP

ID	US 2.2
Name	Update the status of the order
User-Story Description: As a staff in charge of servicing online orders, I should be able to update the status of orders, so that I can inform our customers easily. **Acceptance Criteria:** 1. Staff can change the status of the current order at any time. 2. If an order is updated that it is completed, it will now disappear from staff orders menu. 3. If an order is updated that it is completed, it will show that it is available for pickup in the customer page after refreshing.	
Priority	High
Size	2 SP

User 3: Staff - Inventory Maintenance

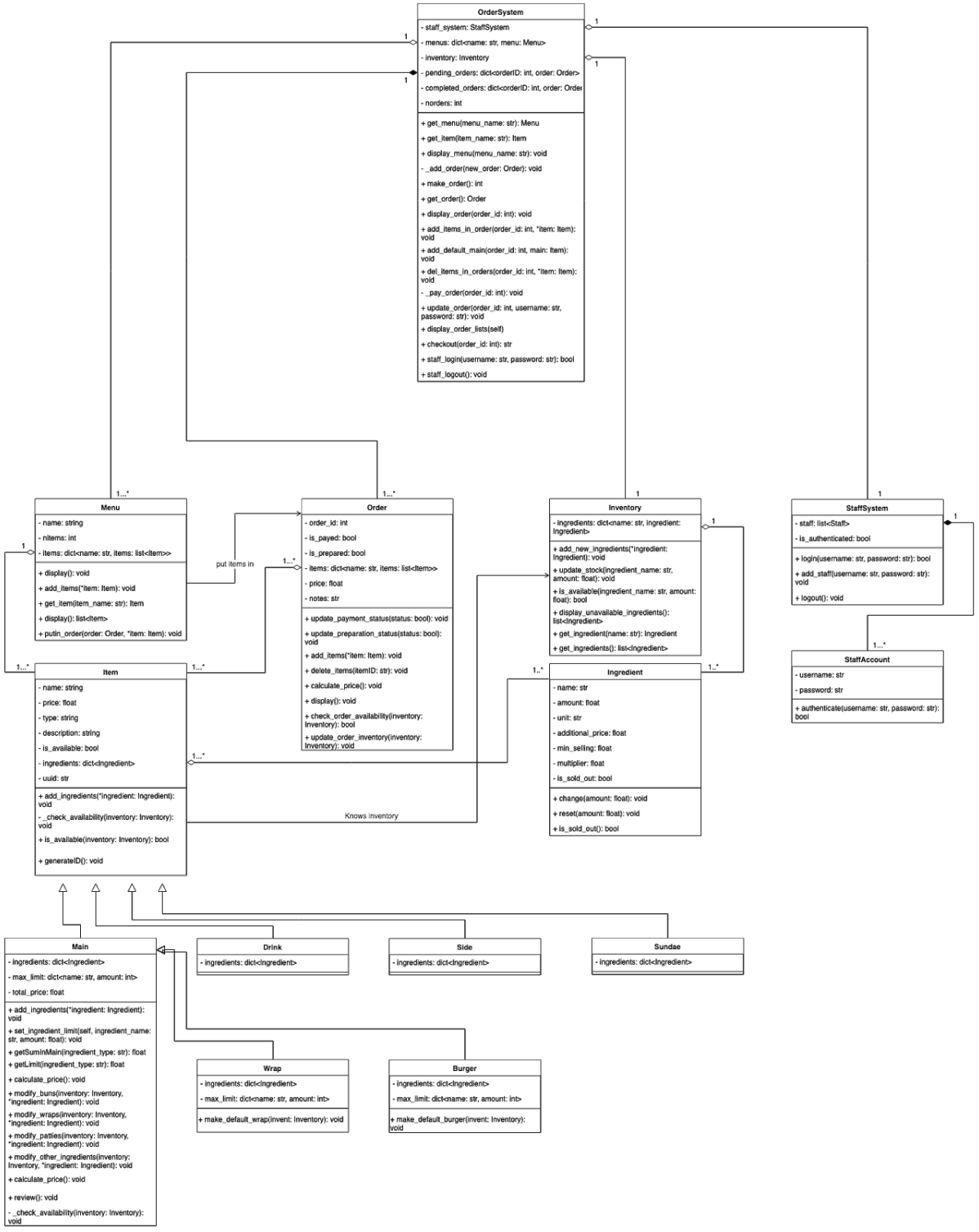
Epic story 3: As a staff in charge of maintaining Inventory, I should be able to view and update the status of the inventory of ingredients in storage, so that I can manage the inventory of ingredients easily.

ID	US 3.1
Name	View current inventory
User-Story Description: As an inventory staff, I want to be able to view inventory real time, so that I can manage every ingredient easily. **Acceptance Criteria:** 1. There should be a page that shows the current stock of every ingredient. 2. Inventory levels should be decreased once a customer checkout an order. (Every item inventory in the order should decrease accordingly) 3. If an ingredient is low on stock, the customer should not be able to select more than what's currently available.	
Priority	High
Size	4 SP

ID	US 3.2
Name	Update the inventory (restocking)
User-Story Description: As an inventory staff, I want to be able to update the current stock number of every ingredient, so that our customers may order them. **Acceptance Criteria:** 1. The quantities of each item in the inventory should include but not limited to: a. Drinks i. One bottled - 600ml ii. One can - 375 ml iii. Juice - 2 sizes: Small - 250ml, Medium - 450ml b. Sides i. Fries - 3 sizes: Small - 75g, Medium - 125g, Large - 200g ii. Nugget in whole quantity - 1 nugget c. Mains i. Bun - 1 bun for all variations (wholegrain etc.) ii. Wrap - 1 wrap for all variations	

iii. Patty - 1 patty for all meat iv. Tomato - 1 thin slice v. Lettuce - by the gram. Ordering 1 lettuce means 30 grams decrement. vi. Cheese - 1 slice for all variations vii. Sauces - 1 package 2. Increment or decrement for all ingredients must follow the quantities specified above 3. The staff should have access to the inventory so they can update it once they finished restocking. 4. After the staff is done with updating the inventory, he should have an option to save changes or discard changes. 5. Staff should not be allowed to save changes with invalid inventory e.g. putting alphabets or floating points instead of integers. Throw an error “Invalid inputs”	
Priority	High
Size	4 SP

Class Diagram

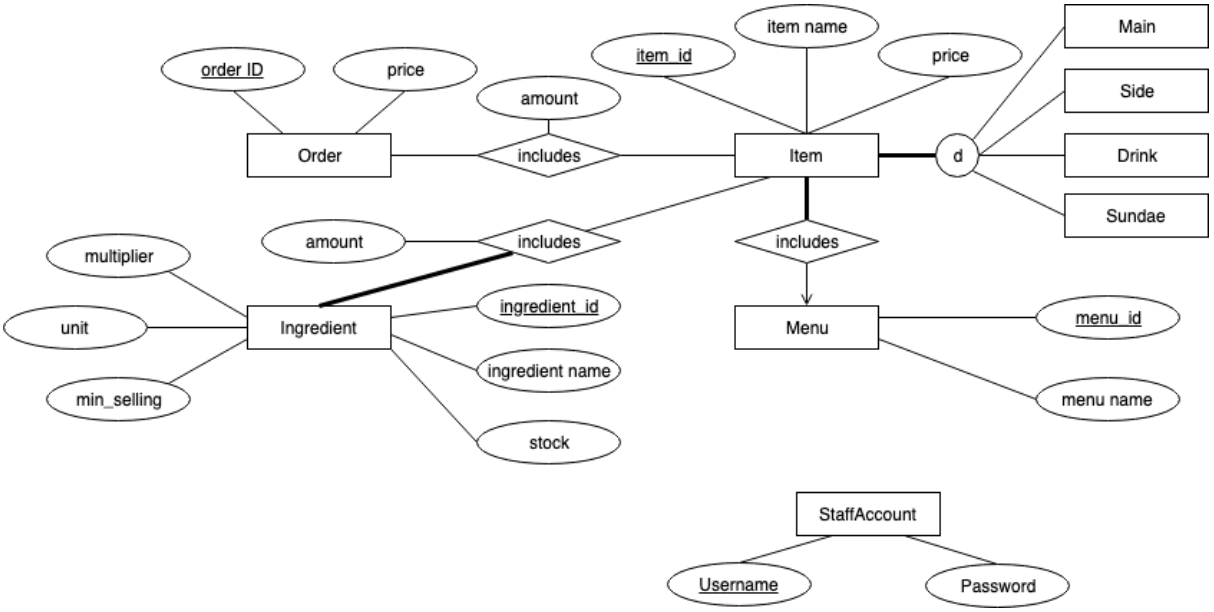


(Note: A clearer version can be found under the docs folder.)

ER Model

Assumption:

1. In the system, we just have one **inventory**, which means we do not need to model the inventory as an entity set.
2. In the system, the information of **order**s needs to be stored.
3. In the system, **ingredient**s have following attributes:
    - **unit**: string, the unit of ingredients, such as “gram” or “bottle”.
    - **min_selling**: float, the smallest amount which an ingredient can be sold at. For example, nuggets has to be sold more than 3 pieces. If there are only 2 pieces of nuggets, nuggets are unavailable.
    - **multiplier**: float, the amount which an ingredient can be updated at. For example, sugar must be updated by 100 grams every time.



(Note: A clearer version can be found under the docs folder.)

Log Book

23/3 Week 05 Regular Meeting

Location: Library | Participants: Kanadech, Gary, Gaurang | Duration: 2 hrs

Decisions:

- Discuss iteration 2
- Modify user stories according to the advice from our tutor
- Finish hand-written CRC cards and Class diagram
- Agree to the development plan for next week

Requirements Elicitation:

- Identifying the necessary classes

Obstacles:

- Not sure whether the class diagram is correct

27/3 Week 06 Regular Meeting

Location: Lab | Participants: Kanadech, Gary, Gaurang | Duration: 2 hrs

Decisions:

- Finish the basic skeleton for the codes
- Finish the first version of the Class Diagram
- Begin implementing more features based on the draft codes

30/3 Week 06 Online Discussion

Location: Online, Messenger | Participants: Kanadech, Gary, Gaurang | Duration: 1 hrs

Milestones: Finished the basic skeleton of the project codes

Decisions:

- Finish the basic skeleton for the codes

- Finish the first version of the Class Diagram
- Begin implementing more features based on the draft codes

Work Assigned:

- *Kanadech*: Use `Pickle` to store class information; Create the system creator to read data from an external file and initialize the online order system
- *Gary*: Finish the user story part 1 and some basic tests
- *Gaurang*: Implement the staff system and login function

1/4 Week 07 Review Meeting

Location: Columbo Theatre | Participants: Kanadech, Gary

Milestones: Finish the `system_creator` and user stories for ordering drinks and sides.

Content:

- Found out some problems in our codes
- Decided to refactor our codes to make it more orderly

Obstacle: For the same user stories, we use different implementations. So we have to reach a consensus about how should we use our classes.

Tasks to do:

1. Refactor our codes and fix some logical bugs
2. Add more features like `exception handling` into our codes

5/4 Week 07 Group Meeting

Location: CSE Building | Participants: Kanadech, Gary, Gaurang | Duration: 1 hrs

Milestones: Finished all the functional requirements for our user stories, and the integration test for the order system

Content:

- Clarified the customer workflow of our codes
- Decided to integrate our unit tests and transform the integration test into more specific user-stories tests via `pytest`

Work Assigned:

- *Gaurang, Kanadech*: Finish the staff login part and the `pytest` part

Tasks to do:

- Staff login
- User-stories tests

11/5 Week 08 Group Meeting

Location: CSE Building | Participants: Kanadech, Gary, Gaurang | Duration: 1 hrs

Content:

- Assigned the responsibility for the front-end development

Work Assigned:

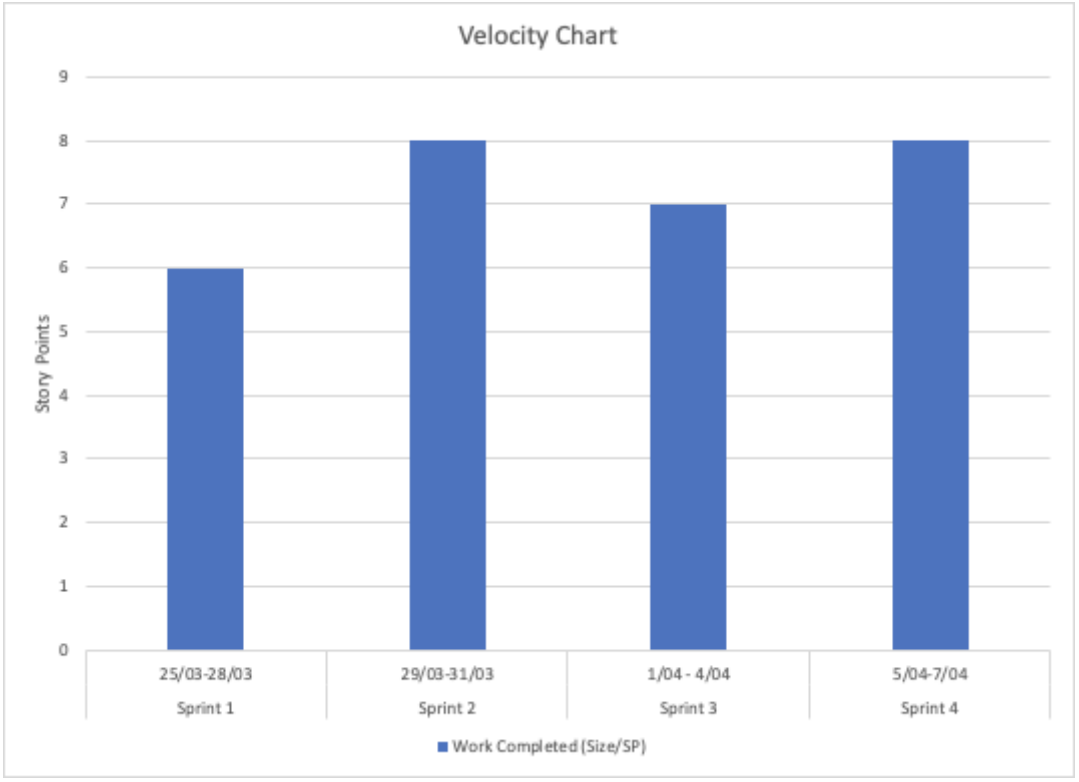
- *Gary:* Develop Flask and Jinja according to the user stories
- *Gaurang:* Beautify the front-end `HTML` and add `CSS` file
- *Kanadech*: Refactor the `pytest` files and test the front-end

22/5 Week 10 Group Meeting

Location: CSE Building | Participants: Kanadech, Gary, Gaurang | Duration: 0.5 hrs

Milestones: Finished all the development and testing work

Content: Mainly discussed the presentation for the final deliverable

Velocity Chart

Sprint	Date	Work Completed (Size/SP)	Completion %	Details
Sprint 1	25/03-28/03	6	20.69%	Finished US1.1, US1.5, US1.6
Sprint 2	29/03-31/03	8	44.83%	Finished US1.2, US1.3, US1.4, US2.1, US2.2
Sprint 3	1/04 - 4/04	7	72.41%	Finished US1.7, US1.8, US1.9,
Sprint 4	5/04-7/04	8	100.00%	Finished US3.1, US3.2