

Restaurant System for Gourmet Burgers

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User Stories

Epic Stories

ID	EP1
Role	Customer
Detail	As a customer, I should be able to pick a burger or a wrap as my main and choose either a premade burger or wrap or make a custom burger or wrap with buns, patties and other ingredients based on my own interests. Once I finished choosing my ingredients, I should be able to get the price from the screen

ID	EP2
Role	Customer
Detail	As a customer, I should be able to choose sides and drinks along with the mains. Once I have completed my selection (main, side and drink), I should be able to checkout to complete the order. Where at any point in time, I should be able to check if my order is ready to be collected using the order-id I have been issued with

ID	EP3
Role	Staff
Detail	As a staff member, I should be able to view customer orders at any time and fulfil them once they're ready.

ID	EP4
Role	Staff
Detail	As a staff member, I should be able to view the current inventory, check on the amount of supplies in the inventory and restock the inventory as needed.

User Stories

Key:

- US points: 1.5hr per each point
- Priority: 1 to 5 from lowest to highest respectively

ID	US 1.1
Title	Choosing Main
Description	As a customer, I should be able to choose the type of main I want so I could meet my own interest
Acceptance Criteria	<ul style="list-style-type: none">• Should be able to select either a burger or a wrap• Once selected, should go to next page to add ingredients if you choose a custom burger/wrap or a base burger/wrap
Priority	4
User Story Points	3

ID	US 1.2
Title	Choosing buns
Description	As a customer, I should be able to choose the type and quantities of the buns I want so I could choose a main that fits my taste
Acceptance Criteria	<ul style="list-style-type: none">• Should display all the buns in the inventory• User should be able to change quantity by typing the number or the up and down button on sides of quantity box• Should have minimal value of 1 (wrap)• Should have maximal value of 4 (triple burger)• Prints error in red if user choice reaches the maximal allowance or does not have enough buns
Priority	4
User Story Points	2

ID	US 1.3
Title	Adding patties
Description	As a customer, I should be able to add the patties from those ones that are available so I could have different flavours
Acceptance Criteria	<ul style="list-style-type: none"> • Should display all the patties available in the inventory • Impose a minimal allowance of 1 • Maximal allowance for wrap is 2 • Maximal allowance for burger is 6 • User should be able to change quantity by typing the number or the up and down button on sides of quantity box • Prints error in red if user choice reaches the maximum allowance or maximal quantity hold in stock • Prints error in red if user's choice is invalid
Priority	4
User Story Points	3

ID	US 1.4
Title	Adding other ingredients
Description	As a customer, I should be able to add other available ingredients so I could have different flavours
Acceptance Criteria	<ul style="list-style-type: none"> • Should display all the other ingredients of main in the inventory • minimal allowance of 0 • Maximal allowance for wrap is 3 • Maximal allowance for burger is 5 • User should be able to change quantity by typing the number or the up and down button on sides of quantity box • Prints error in red if user choice reaches the maximal allowance or maximal quantity hold in stock • Prints error in red if user's choice is invalid • Direct user to Main page with message "the customised burger has been added to your order"
Priority	4
User Story Points	2

ID	US1.5
Title	Reviewing main
Description	As a customer, I should be able to see the net price once I finished my creation, so I could decide if it is too expensive or not
Acceptance Criteria	<ul style="list-style-type: none"> • In the My Order Page, page should show user what's in his/her main • Should show user the total price of their main • Should be able to go back to modify the main if they wish • User can process order page by clicking the "Place Order" button
Priority	2
User Story Points	2

ID	US 2.1
Title	Ordering sides and drinks
Description	<ul style="list-style-type: none"> As a customer, I should be able to order sides and/or drinks, so can complement my main meal
Acceptance Criteria	<ul style="list-style-type: none"> Should display the information Should display the price of the sides Should be able to select different sides with a minimal quantity 0 User should be able to change quantity by typing the number or the up and down button on sides of quantity box Print error in red if user choice reaches the maximal allowance Should be able to add selected sides to order
Priority	4
User Story Points	3

ID	US 2.2
Title	Checkout
Description	<ul style="list-style-type: none"> As a customer, I should be able to checkout, so I can complete my order
Acceptance Criteria	<ul style="list-style-type: none"> Should display all items with their price in the order on the my order page Should display total in the order Should be able to go back to modify order if they wish Assign an order id to the order
Priority	4
User Story Points	2

ID	US 2.3
Title	Issuing receipt
Description	<ul style="list-style-type: none"> As a customer, I should be able to be issued an receipt, so I can check the status of my order later on
Acceptance Criteria	<ul style="list-style-type: none"> Should show the Order ID Should display all the items in the order Should display order status
Priority	2
User Story Points	2

ID	US 2.4
Title	Checking order status
Description	<ul style="list-style-type: none"> As a customer, using my order ID, I should be able check the status of my order, so I know when it will be ready to pick up
Acceptance Criteria	<ul style="list-style-type: none"> Should be able to append their order id after the link to retrieve Should then display the status of the order whether it is ready to be picked up or not Should display order detail
Priority	1
User Story Points	1

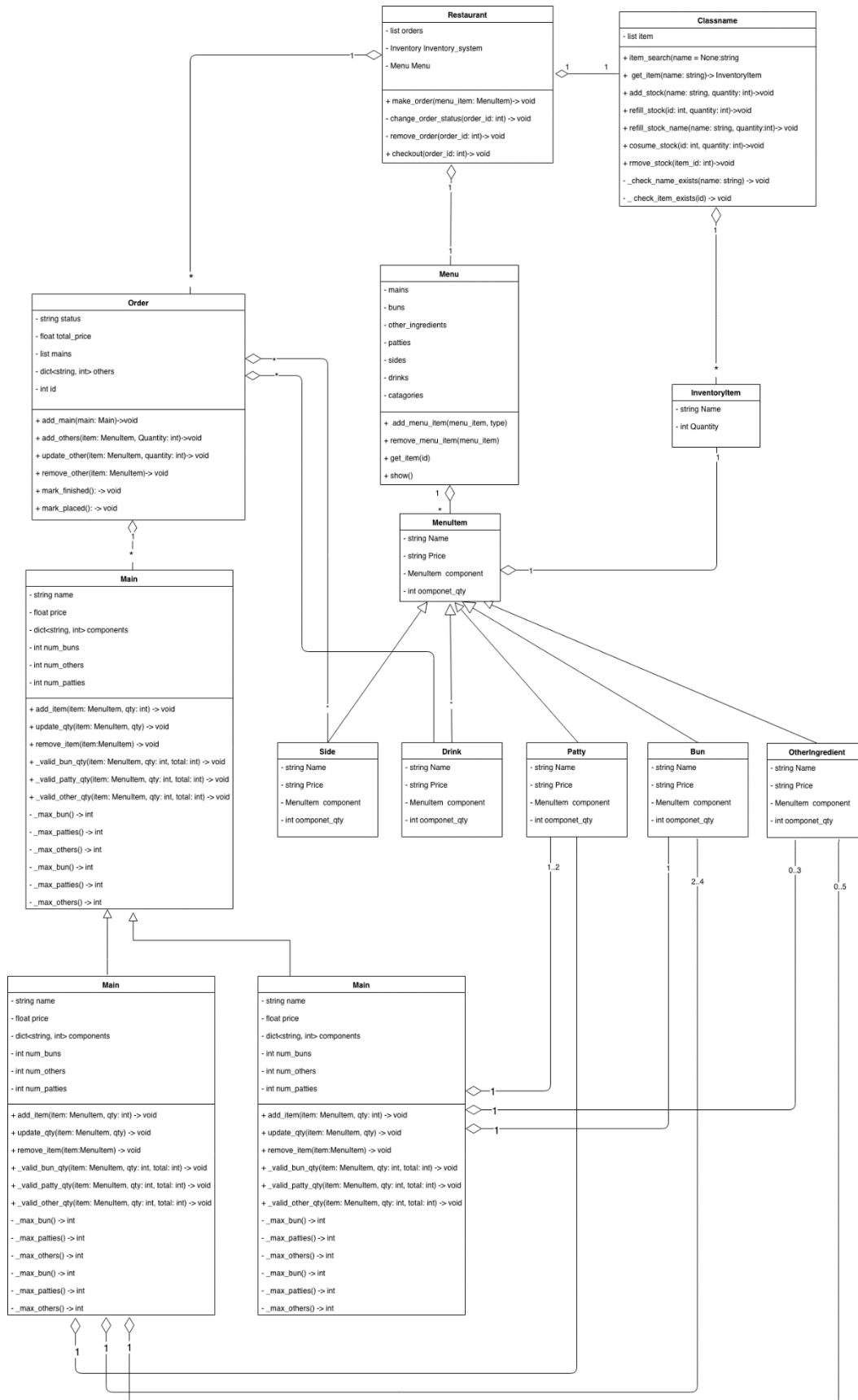
ID	US 2.5
Title	Checking On Orders
Description	As a staff member, I should be able to see all of the orders waiting to be done
Acceptance Criteria	<ul style="list-style-type: none"> • Should see all the orders that are not fulfilled • Should be able to see all the ingredients and food in the order (mains, sides, drink) • Should be able to see new orders if page is refreshed
Priority	3
User Story Points	2

ID	US 2.6
Title	Fulfilling Orders
Description	As a staff, I should be able to update order status so customers are informed their meal is ready
Acceptance Criteria	<ul style="list-style-type: none"> • Should be able to update the status of the order • Once updated, the order should be removed from the list when page is refreshed
Priority	4
User Story Points	2

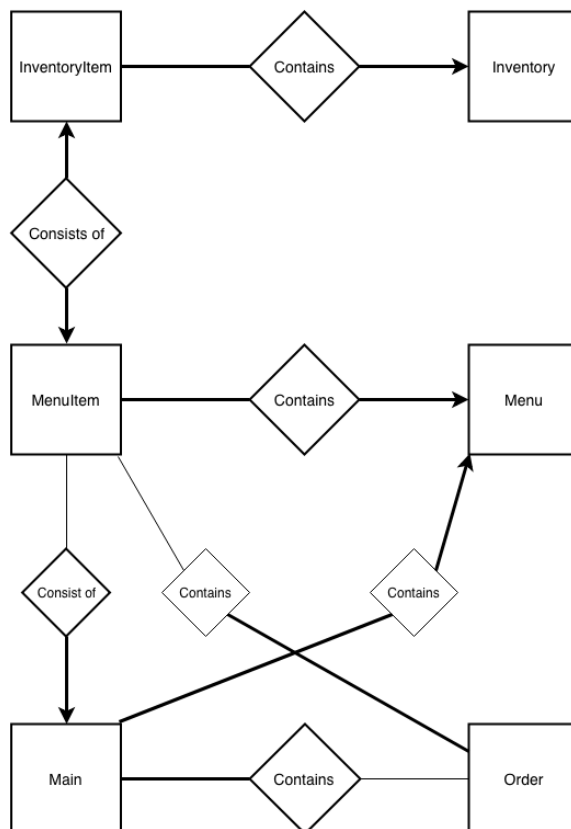
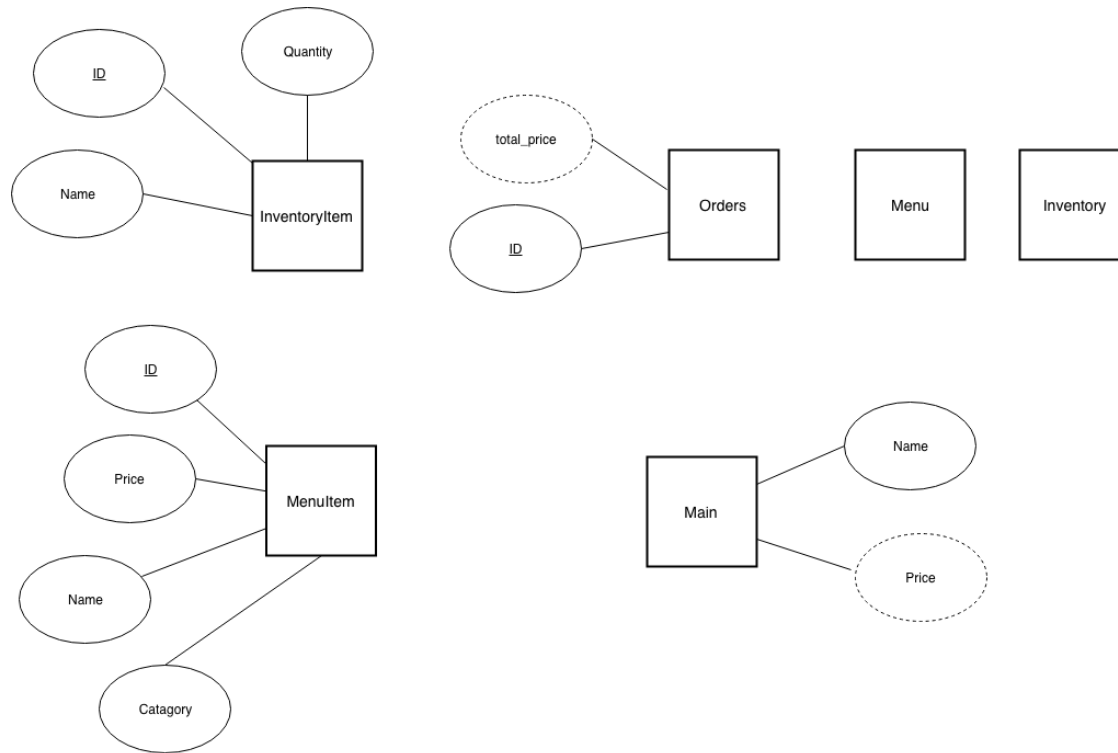
ID	US 3.1
Title	Inventory view
Description	As a staff, I should be able to view the inventory so I can know our current inventory level
Acceptance Criteria	<ul style="list-style-type: none"> • Should be able to see exact amount of all burger parts, wrap parts in exact numbers. • Should be able to see the amount of sides (nuggets, fries) in grams • Should be able to see the amount of canned drinks down and how much can still be served
Priority	5
User Story Points	5

ID	US 3.2
Title	Inventory Restock
Description	As a staff, I should be able to input an amount to restock an inventory by a certain amount.
Acceptance Criteria	<ul style="list-style-type: none"> • Should be able to input positive value integer value to represent the quantity that is restocked • Once done, the entered value should be added to the existing stock and the input box should be emptied to indicate done • By pressing “Restock Inventory” on the page, new stock should be displayed • By refreshing the pages in the order system
Priority	5
User Story Points	3

Class Diagram



Entity-Relationship Design



Logbook

Back-End Implementation

Meeting 1 – 04/03/2019

- Main Decisions Made:
 - Each part of the User Stories Task was allocated as follows
 - Chi: Customer - Online Orders: Mains
 - Peter: Customer - Online Orders: Sides and Drinks
 - Lin: Staff: Service Orders and Maintain Inventory
- Responsibilities of each team member:
 - Chi copied and pasted our user stories into a table for better viewing
 - Peter changed the user stories as need be as we kept reading the project documentation
 - Lin kept the priorities in check and reorganized them if needed
- Progress done up to and after meeting:
 - We completed the epic and user stories with:
 - Unique Story Identifier
 - RGB
 - User Story Points
 - Priority of Implementation
 - Acceptance Criteria
- Milestones Completed – Milestone 1 was completed by this time, after collecting all the user stories
- Reflections and Obstacles
 - We managed to complete our first major task, in completing Milestone 1
 - However, our reports were not uniform, and we had to make sure that we tried to keep our stories more goal orientated and be lighter on non-important details

Meeting 2 – 25/03/2019

- Main Decisions Made:
 - We allocated our first few tasks for back-end development
 - Chi: Menu, Items in Menu, Mains
 - Peter: Main Restaurant System, Order Handlings
 - Lin: Inventory Items and Inventory (as well as all functions related)
- Responsibilities of the Group
 - We had to make sure that we all had tests for the back-end software
- Progress Done up to that Point
 - Completed the UML Diagrams
 - All user stories have been fixed to conform to standards
- Milestones – UML Diagram was completed in time to be shown
- Reflections and Obstacles
 - Most of us are not familiar with PyTest at this point
 - We need to be keen and look out for possible merge conflicts when putting code to GitHub.
 - Some categories need to have other classes completed before they can be implemented

Meeting 3 – 01/04/2019

- Main Decisions Made:
 - A final decision was made to finalize the class structure of the following class systems:
 - Inventory, Order, Main and Menu
- Responsibilities of the Group
 - We started to work on the python code and to implement test cases for all the following code
 - Restaurant, Order by Peter
 - Inventory, Inventory Item by Lin
 - Main, Menu, Menu Item by Chi
- Progress Done up to that Point
 - The UML diagram has been critiqued by our tutors and the new diagram has been finalized
 - We received a class template during our lectures/tutorials to create our attributes and functions
- Milestones – UML Diagram was marked and finalized; ready to begin full coding
- Reflections and Obstacles
 - We needed to learn how to debug Python code as most of the team is not familiar with the language
 - We needed to make sure that code was being done timely as to make sure that all the classes would function with each other
 - We also needed to know how our code would match the system shown in the UML Diagram

Meeting 4 – 05/04/2019

- Main Decisions Made:
 - The integration of the final restaurant class that oversaw the entire system cannot be completed until the inventory system was done.
 - Additional tests for wraps needed to be completed to complement the burger test cases as well.
- Responsibilities of the Group
 - Assistance was given to Lin to help him to finish the inventory system as fast as possible
 - Peter was tasked with completing all the test cases for the Order class
- Progress Done up to that Point
 - Chi finished all the core code for the Main and Menu classes and has tested them
 - Peter has finished all Order classes has begun tests
 - Core code for the restaurant class has begun to be written
- Milestones – Done all the core code expect for inventory, with much of the written code being or has been tested
- Reflections and Obstacles
 - Despite having many issues implementing the code and tests for the subclasses we made significant progress, almost finishing the individual systems before we can start to integrate everything together
 - We need to test all the systems throughout and we are still awaiting the completion of the inventory system

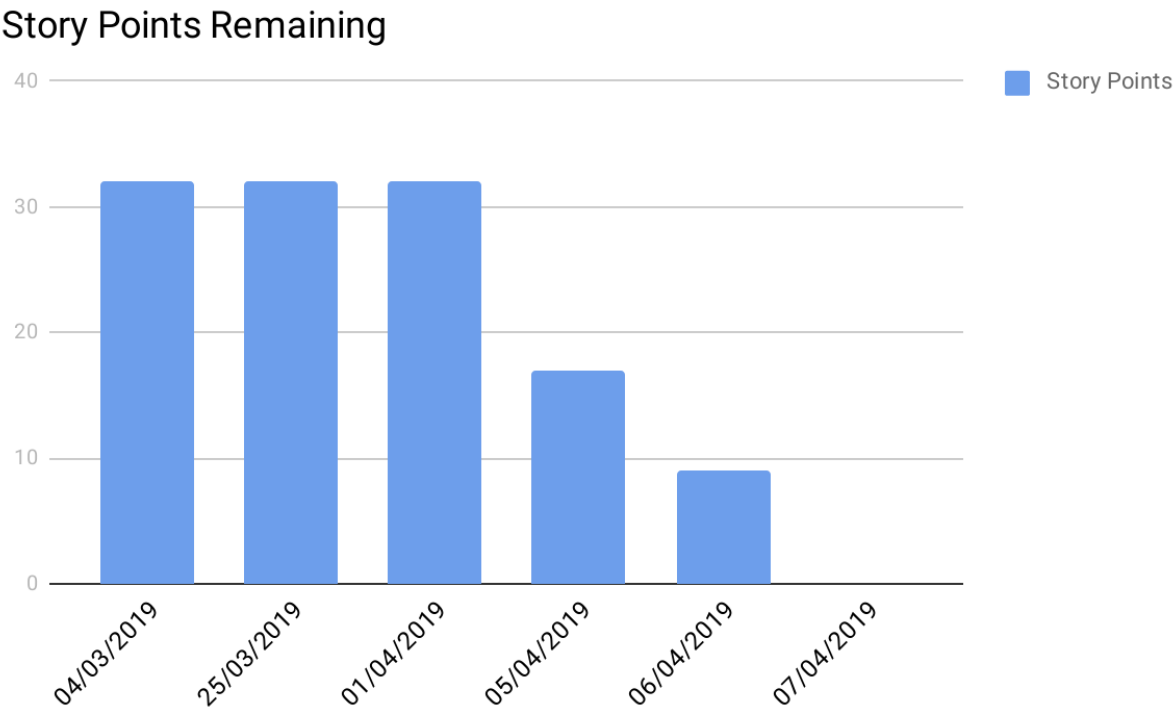
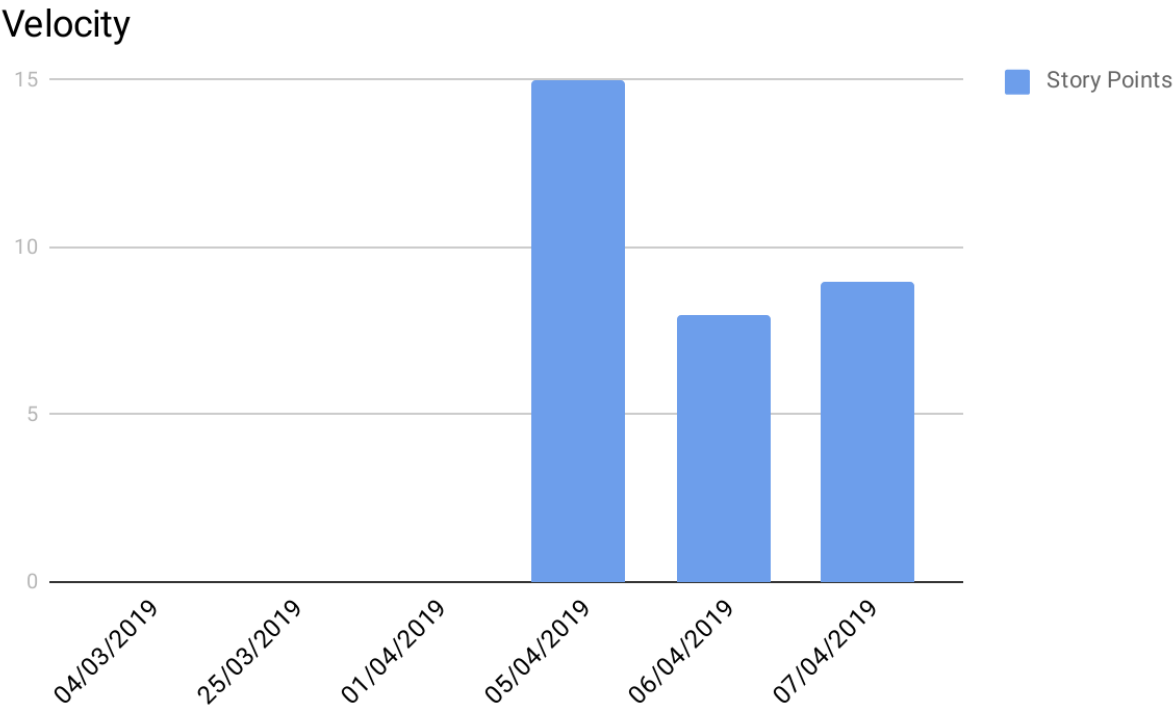
Meeting 5 – 06/04/2019

- Main Decisions Made:
 - To try and start implementation of the entire restaurant system despite some small but persistent issues with the Inventory Class
 - To make major adjustments to the checkout function so that it is compatible with the Inventory Class and system
- Responsibilities of the Group
 - To fix up the issues in the Inventory Class and continue testing with the code to ensure that it will work in the overall restaurant system
- Progress Done up to that Point
 - Finished the core code of the Inventory Class, tests still not completed
 - Finished all testing of the Order Class
- Milestones – Completed all the core code of the Restaurant System
- Reflections and Obstacles
 - Despite some bugs in the Inventory Class system, everything is coming together well
 - Focus is to complete the integration of the restaurant system
 - Need to finish the tests for the Inventory system
 - To fix the checkout function in the restaurant code
 - To figure out how to integrate all the classes together
 - To ensure all the code and tests addresses the user stories

Meeting 6 – 07/04/2019

- Main Decisions Made:
 - Peter will complete and compile the logbooks together
 - Lin will finish all the user stories-based testing
 - Chi will help finalize and fix all the tests and compilation before the setting it out for release
- Responsibilities of the Group
 - To finish all the testing to ensure it runs proficiency and satisfy the user stories and acceptance criteria
- Progress Done up to that Point
 - Finished all the tests for the inventory class
 - Fixed all errors in the class and integrated the restaurant class with all of these subclasses:
 - Main
 - Menu
 - Order
 - Inventory
- Milestone – Completed all the core code and testing of the restaurant system
- Reflections and Obstacles
 - One of the biggest concerns was the integration of the restaurant system with the subclasses has been dealt with, though some minor errors and bugs remain
 - Other than that, we need to ensure that our tests satisfy the demonstration criteria and passes the acceptance criteria

Graphs for back-end implementation



Front-End Implementation

Meeting 7 – 15/04/2019

- Main Decisions Made:
 - Each team member is assigned with a task for the front-end:
 - Peter
 - Create the HTML Base, Order and Main
 - Create the core routes.py and run.py for the HTML files
 - Lin
 - Create the HTML for Inventory
 - Compile the routes.py file with all the pages
 - Chi
 - Combine back-end and front-end elements
 - Add base burgers and wraps
 - Change Test cases
- Responsibilities of each team member:
 - To create the front-end implementation of the website and integrate that with the back-end
- Progress done up to and after meeting:
 - Establish all tasks for the front-end and complete all the back-end
- Milestones Completed – Finished all the back-end implementation
- Reflections and Obstacles
 - Our implementation of the back-end was received very well according to our tutors
 - We need to do the HTML parts according to specifications so that it can be implemented correctly with the routes.py file to get the website working

Meeting 8 – 22/04/2019

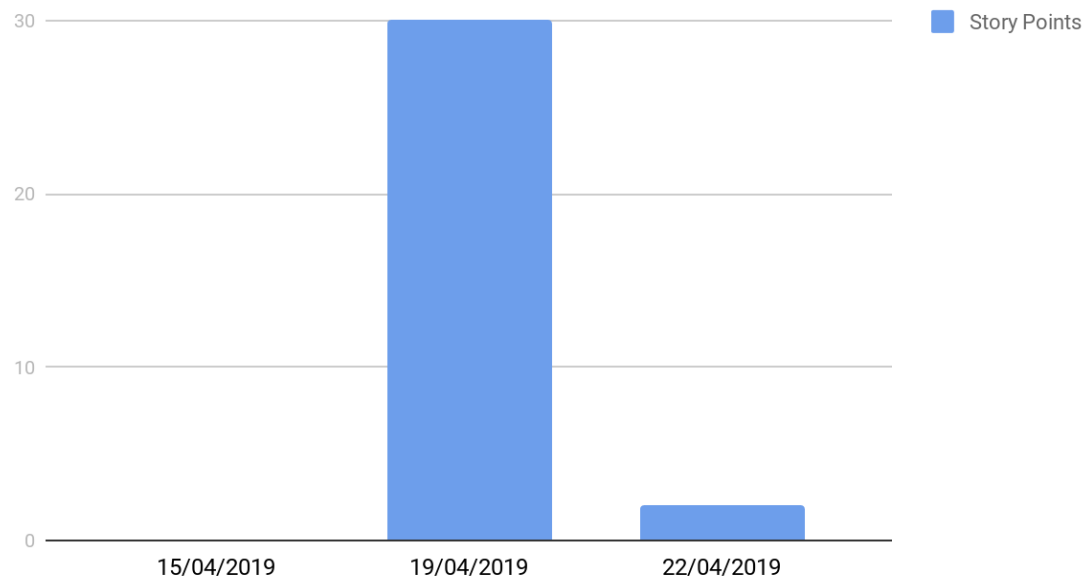
- Main Decisions Made:
 - Peter
 - Started on updates on the user stories and logbook
 - Lin
 - Compile all the available data into a report
 - Chi
 - Update the UML Diagram and create an ER Diagram
- Responsibilities of the Group
 - To finish all the documentation of the code and compile it into a report
- Progress Done up to that Point
 - Fixed all the major bugs that was stopping the inventory from updating from the front-end
 - Chi implemented CSS into the website to make it visually more appealing
- Milestone
 - Finished the website implementing the front-end and back-end and combining them together to perform core functionalities of the website making the order from the menus, processing the orders and updating the inventory according to the user acceptance testing
- Reflections and Obstacles
 - We finished the website making significant process and having most of it done by Friday April 19, however we still had to fix errors with the code's functionality until it was finalized ready to push into the release branch

Meeting 9 – 26/04/2019

- Main Decisions Made:
 - Peter
 - Updated the user stories to fit into the specifications
 - Lin
 - Finished compiling the report
 - Chi
 - Began plans for the presentation
- Responsibilities of the Group
 - To finalize the report and prepare for the presentation
- Progress Done up to that Point
 - Finished all the documentation, and working towards the final report
- Milestone
 - Finished user stories, updated UML diagrams, ER Design and the logbook in terms of the documentations
- Reflections and Obstacles
 - We finally finished all of the documentations having saw a few bugs which we didn't recognize during our testing last week but now all we have to do is finish the report and prepare for the presentation

Graphs for front-end implementation

Velocity



Story Points Remaining

