**Assignment:**

**Problem Statement:**

**I own a small restaurant which has started becoming very popular amongst the people off late. However I have limited seating capacity so I want to provide my customers a way to order online and get food delivered at their home, or order online and pick it up when it is ready without too much of a wait time.**

**As an owner of the Ching’s Noodle Bar, I want to understand how much time and money will it take for me to get these things working, what is a good way to go about working on this need that I have and how early can I get it online.**

**Non Technical Assignment:**

**Create a prioritised backlog of features and refined user stories for the features. There should be a clear indication of why a certain priority has been set, and what are the features of this system. Also chart out a plan of how / when the system will be released and ready to use. To avoid ambiguity in requirements, there should be well documented feature specification in Cucumber that the product team can pick up and start working with without having to clarify what is to be done and more importantly “when to stop”.**

========================== **SOLUTION** ===============================================

The feature to be developed is to enable end users to be able to place orders online using ching’s Noodle bar’s web site. I have broken down the requirements provided into user stories and captured below how I would plan to develop the same in multiple iterations. The PI stories as I see are the ones needed immediately to get the user to order online, P2 are the features which provide more flexibility to the user in terms of updating/availing discount/providing more payment options. P3 are the ones which are good to have and should be done as the business grows and expands.

I have provided estimates for Iteration 1 items, based on that effort we can update Ching’s owner about the time and money needed to get things up and running for him.

**Note:**

Though I have broken down the requirement for creating a customer facing portal and corresponding APIs, additionally there will have to be a portal need for vendor /Ching’s as well where they can see the orders coming, update the status of the order. For the expected delivery time, I am assuming we need to show a static time say 30minutes but if we want to dynamically calculate it, it would involve whole gamut of implementing a Machine learning Algo.

**Feature**: Enable customer to order food online from Ching’s Noodle Bar (Can be created as an EPIC in JIRA)

**Must have in first iteration (P1) to be picked in the order below:**

**User Stories:**

1. **Browse Menu [Website home page for menu (1day) + API (4hours)]**

As a user:

* I need to be able to open the website for Ching’s Noodle bar in a browser, [www.chingsnoodlebar.com](http://www.chingsnoodlebar.com) so that I can enter the website as a **guest**.
* I need to be able to see the listing of food items (category wise) in the Menu along with their prices so that I can browse and check them out

1. **Place an order to the API [Place Order workflow(2-3days) +**

**APIs for creating order (6hours) + adding/ removing from cart (4hours) + Changing home delivery/Pickup (2hours) + Finalizing Order (6hours) + e-wallet integration at backend (2-3 days)]**

As a user:

* I need to be able to choose whether I would pick up the order or get it delivered to home.
* I need to be able to enter/ select my location from a drop down if I choose Home Delivery so that order can be delivered.
* I need to be able to change between Home Delivery and Pickup during anytime while placing the order.
* I need to be able to add and delete items from my cart so that I can decide and finalize my order.
* I need to be able to review the order and amount so that I can check out and place the order
* I need to be able to enter my personal details like address, phone # and email id while checking out so that I can be contacted if need be.
* I need to be able to pay through e-wallet so that I can confirm my order.
* I need to be able to see the transaction successful message when the payment is complete so that I can view details of my order.

1. **Get notified of expected delivery time**

As a customer,

* I need to be able to see the Order Id, Items ordered, total amount, expected time of delivery/ pick up for the order on the order confirmation screen.

1. **Check status of order [APIs for updating and returning the order Status - 3 hours]**

As a customer,

* I need to be able to browse to [Track order] and enter my order Id to monitor the state my order is in so that I know how far my order has reached.
* I need to be able to see the order in either of the following states: Received, Getting Ready, Prepared, Dispatched, and Delivered.

1. **Cancel an order any time after confirmation but before preparation [API - 4hours]**

* I need to be able to see a [Cancel Order] button if the status of the order is either [Received] or [Getting Ready]
* Clicking on the [Cancel Order] button should cancel my order and if already paid, should initiate the refunds.

**Second iteration (P2) to be picked in the order below:**

1. **Update an order any time before dispatch to delivery**

As a customer,

* I need to be able to see a [Update Order] button if the status of the order is other than Dispatched or Delivered so that I can change my order if need be.
* I need to be taken to my cart when I click on the [Update Order] button so that I can add or delete items in my cart. (Requirement Clarification: Should the customer be allowed to update the order even if his new order total is less than the original one?)
* I need to be able to review the updated order and amount so that I can check out and update the order.
* Given that I paid through net banking/ credit card / e-wallet and updated order is of more amount than original, I need to be able to see the difference in the amount so that I can pay the extra amount.
* Given that I paid through net banking/ credit card / e-wallet and the updated order is of lesser amount than original, I need to be able to see a refund being issues.
* Given that I paid through Cash on delivery, it should prompt me to enter the OTP and confirm.

1. **Avail discount coupons**

As a user,

* I should be able to apply a discount coupon while checking out my order.
  + If the coupon code is valid and applicable, the discount should get reflected in the bill amount
  + If the coupon code is invalid, a message stating the same should be shown to me.
* I should be able to apply a coupon code more than once across different orders if it is valid.
* For a specific order, I should be able to apply only one coupon code.

1. **Enable user with more payment options**

As a user,

* I need to be able to choose to either pay online through credit card or cash on delivery so that I can confirm my order.
* I need to be able to receive an OTP on my mobile number if I choose to pay by cash so that I can enter it and validate myself.
* I need to be able to see the transaction successful message when I enter the OTP or when the online transaction is complete so that I can view details of my order.

1. **Order details over email & SMS**

As a user,

* I need to be able to receive an email with my order details so that I can see the details even at a later point of time.
* I need to be able to receive the order details through SMS with a link to track my order so that it is easier for me to track.

1. **Browse Menu**

As a user, I want to be able to see specials, so that I can see the current deals

1. **User Registration**

 As a user,

* I need to be able to register as a new user, so that I can have more access to the site
* I want to be able to register with my Google account

1. **User Login**

 As a user,

* I  need to be able to login with my username/password, to gain access to the site
* I  want to be able to login with my Google account, to gain access to the site

**Third iteration (P3):**

1. **As and when Ching’s Noodle Bar becomes a hit and has a chain of stores across country**
   * Enable user to choose between various stores of Ching’s Noodle Bar within a particular city when he chooses [Pickup] as an option
   * Enable user to select his city and location when he chooses [Home Delivery] as an option
2. **Creating Android & iOS apps for Ching’s Noodle Bar**

Enabling the user to download the app and place orders.