**ACS - 560 Software Engineering**

**H. W. Assignment - 3**

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**GITHUB URL: https://github.com/xyzrestaurant/Project**

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**Requirement Specification**

**PROJECT DESCRIPTION:**

XYZ Restaurant is a web application that supports the online ordering of foods and drinks in restaurants. Currently, there is no alternative mechanism for ordering foods, other than going to the restaurant and stand in line. Unlike the current process in which customers have to stand in line for an average of 30 minutes to order food, the XYZ Restaurant application will enable customers to order food online as per their convenience and go to the restaurant only after restaurant has reserved a table for them.

Besides the convenience of ordering food online, the XYZ Restaurant application will also give customers a choice of ordering food in the language of their choice --- the menu will be equipped with a mechanism for translating of the language. The XYZ Restaurant application will also be equipped with a mechanism for option for dynamically updating the menu to reflect food items in stock.

**FUNCTIONAL REQUIREMENTS:**

* **FR1** Customer shall be able to create/edit his/her profile in order to login to the system.
* **FR2** System shall enable user to place order as a guest.
* **FR3** System shall display the menu to the customer.
* **FR4** System shall enable customer to select a desired meal.
* **FR5** System shall enable customer to make payment online.
* **FR6** Customer shall be informed of the status of his/her payment once the payment has been

submitted.

* **FR7** Customer shall be informed when seat becomes available.
* **FR8** Customer shall specify the number of seats needed for every reservation requested.
* **FR9** Customer shall specify the check-in time.
* **FR10** System shall enable authorized restaurant employees to retrieve the order from the server.
* **FR11** System shall enable authorized restaurant employees to process the order.
* **FR12** System shall enable authorized restaurant employees update the number of available seats/table.
* **FR13** System shall enable authorized restaurant employees to allocate seats to customers.
* **FR14** System shall enable authorized restaurant employees to create new orders.
* **FR15** Administrator shall be able create restaurant employees profile.
* **FR16** Administrator shall be able remove/edit restaurant employees profile.
* **FR17** Administrator shall be able to update the menu.

**Business Rules**

* **BR1.** For guest customer, the system should ask for Email ID &Phone Number.
* **BR2.** System should accept either MasterCard / VISA card for payment.
* **BR3.** Customer shall be informed once the seat has been reserved, money will be deducted from their account.
* **BR4**. System shall generate an order summary on completion of order.
* **BR5.** System shall ask for reservation time from the customer before completion of order.
* **BR6.** Only authorized employees shall have the access to the system.

**Constraints**

* The server application shall be implemented in Linux.
* The client application shall be implemented in Windows.
* Spring shall be the framework