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## Functional Requirements

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### 1. Process-oriented

**1.1** Customers can scroll through the menu and select the dishes as per their preferences.

**1.2** Customers can request to cancel or edit the order.

**1.3** Customers can request for bill ask for help through the system.

**1.4** Customers can provide feedback regarding the food and overall service of the restaurant.

**1.5** Head Chef can assign the dishes in an order to Chefs according to their specialties.

**1.6** Chefs can check dish queues and their status.

**1.7** Chefs can check the availability of the Ingredients.

**1.8** System admin can perform CRUD(create, retrieve, update and delete) operations on Staff Members, Menu Items and Inventory.

**1.9** Head Chef can mark orders as 'Completed' can approve cancellation of dish or order.

**1.10** Hall Manager can mark the bill as paid.

**1.11** Hall Manager can receive notification when a particular order is complete.

**1.12** Hall Manager can check or edit status of tables reserved and available and their capacities.

**1.13** Popular Payment Gateways must be available in the system so that Customers can pay Bills apart from Cash

Payment.

**1.14** Management also can pay the employees using the Payment Gateways.

## **2. Information-oriented**

**2.1** The system must show all available and unavailable dishes to the Customer and the operations of unavailable dishes must be disabled.

**2.2** System will classify the dishes in the order according to category and add this dish on a particular Chef's queue in the kitchen screen.

**2.3** For order cancellation, all the dishes will be presented for approval to the Head Chef. Only approved dishes will be dropped.

**2.4** Hall manager can check the order no, table no and total payable amount.

**2.5** Customers can check their order history of atleast last six months.

**2.6** The system must include budgeted and actual sales and expense amounts for current year and last two years.

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## Nonfunctional Requirements

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### 1. Operational

**1.1** The system can be run on Tablets and the Tablets would be present in the restaurant. It should be available both for Android & iOS.

**1.2** The system should be up and running for most of the time and server should not be down for more than a few minutes to avoid inconvenience of the customers.

**1.3** The bill generated by the application must be accurate and the orders placed should exactly be the same which the customer has selected.

**1.4** Management can easily install the App on devices and the system would run smoothly according to the requirements.

**1.5** Interface of the software must be easy to use. It would not be complex since managers, chefs have a view, so interface should be simple.

### 2. Performance

**2.1** In case of scrolling through the menu there should be a delay of no more than 2 second before the next page of menu items is displayed otherwise our people's dining experience will be affected.

**2.2** The order should be placed in pending orders and be visible to the Head Chef & Chefs in less than 1 second to start the preparation.

**2.3** 'Cancel Order' & 'Update Order' should be made with little delay to avoid delivery delay.

**2.4** While connecting to the Firebase server the delay to make a successful connection should be less for effective real time communication.

**2.5** The menu should have flexible fonts that can be zoomed so as to not over constrain the eyes.

### **3. Security**

**3.1** Proper and encrypted login authentication for Head Chef and Admin should be available as sensitive information of Employees as well as inventory should be protected.

**3.2** Information transmission should be securely transmitted to Firebase without any changes in information to avoid disturbances in orders and billing.

**3.3** Only Admin can access to perform add, delete, update operations on the database for menu, inventory, employees and no other person can modify the data in the Database.

**3.4** Chefs can only view the orders and cannot remove an order from their queue. Only Head Chef can interact with the queues containing orders.

**3.5** Only Admin should have access to Customers' information.

### **4. Cultural and Political**

**4.1** Customers should be able to pay bills in multiple currencies, such as, BDT & USD.

**4.2** Company policy has been set to buy equipment only from Ryans Computers and Star Tech Engineering Limited.

**4.3** Personal Information should be protected in compliance with the law of the Country.

**4.4** Customers should be provided with the detailed information of Payment. Tax Paying Information of the Restaurant should be provided on Cash Memo.