Technical Feature Description (draft version 0.1)

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*Client Side:*

**Role – Normal User: (6 Activities)**

1. Registration Activity (username, password)
2. Login Activity (username, password)
3. MainPage Activity ( select Tim/Subway/Pizza)
4. SubCategoryMenu Activity (select food in a Menu), Add to shopping cart
5. CheckoutActivity (Balance check and create an order)
6. Redeem Gift Card code Activity ( input a code and get gift money)
7. Notify Administrator.

Role – Administrator:

1. Login As an Administrator ( Same Activity as User)
2. Check Order Activity (can be click the refresh manually or automatically refresh a listView), Click a button Ready to change the order status.
3. Notification Function (when order status change will send a notification to a user)

*Server Side:*

Tables and Columns:

**User Table**: username(varchar50), password(varchar 50, MD5), balance(float), userid(int ,PK), registorDate(datetime)

**Gift Card Table**: cardID(int, PK), status, cardcode(varchar50, PK), redeemedBy(int, FK userid)

**Order Table**: OrderId(int,PK), orderUserId(FK, userid), createdTime(date), OrderStatus(int), OrderDetails(varchar 1023), restaurantID (int, also can be userId)

**Optional:**

Menu Table for each restaurant,

Restaurant list,

Orderline for each order (which can be more specific with each food on Menu)

Interfaces:

1. **Registration (if we need this fuction)**

Input( username, password)

Output(errormessage / success message)

1. **CreateAnOrderByUser**

Input: userid, orderDetails

Output: (errormesssage / success message)

1. **Login**

input: username, password

Output(errormessage / success message)

1. **ChangeOrderStatus**

Input: orderId, status code

Output: (errormessage / success message)

1. **GetFoodListByRestaurantId (optional)**

Get food list by restaurant Id.

1. **GetNotificationByUserid**

Input : UserId,

OutPut: message list

1. **GetNotificationByRestId**

Input: restaurant id (also Userid)

OutPut: message list

*Challenges we may have(need discussion)*

1. Tablet layout problems. (do we really need tablets or just in normal android device resolution)
2. Push Notification design and Implementation.
3. TDC….