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Automated Food Dispatch System using Geo location Algorithm

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ABSTRACT: My proposed system is an Automated Food Dispatching System using Geo location Algorithm that enables effortless process for the customers. It overcomes the disadvantages of the old queuing system. My proposed system is a medium to order any eatables in a stress free environment from restaurants as well as mess service. This system improves the process of taking the order from customer. The automated food dispatch system sets up a food menu and users can easily place the order as per their own wish. Also with a interactive food menu, users can easily view the orders. This system also provides a feedback system in which user can provide their feedback. The admin will have a clear display of feedback provided by the users so that the restaurant will be informed for the improvements along with the quality. The payment can be made based on users choice. For more secured ordering individual accounts are maintained for all kind of user by providing them an unique ID and a password.

KEYWORDS: Automated food dispatch system, SQL Database, Web Technology.

I. INTRODUCTION

It is known globally that, in today's world, it is highly difficult to start a new small-scale trade and live-through the competition from the big MNC's. In the busy world when everyone is searching for time, the majority of people are particular when it comes to ordering a food. The users of today are attracted to order food because of the clarity into the items offered, price and simplified navigation menu for the ordering.

The proposed system will provide the ease of access to Customers/Users to order from either Hotels or Mess. It will also provide multiple options to the customers from the hotels/mess owners uploaded on a daily basis. In the proposed system, there will be no limit of orders to the customer wants. Also, same application can be used as a foundation for Business for developers. It will also provide real time customers assessment to the restaurants/mess owner.

The proposed system is designed to avoid users doing tragic errors and inappropriate actions. Scope of proposed system is reasonable because in vast amount peoples are moving to different cities so large amount of people can make a use of proposed system.

II. RELATED WORK

The concept of automated food ordering was first introduced by Waiter.com. The method was inspired by the various food dispatching system. It bridges the customers and restaurants in getting the food. This technique uses an algorithm to find the minimum distance between user and delivery person to deliver the foods in short period of time. In [1] the author shows the food ordering system in touch based application. My proposed model is based on Geo location algorithm as it based on the latitudes and longitudes of user using the system. In [2] the author describes how responsive web design is useful for users using different devices for ordering food. This feature also used in this model as it can fits into all kind of devices the user uses. In[3] the author describes about the online dining system in android application. This wireless application helps the user to connect the user in the restaurant to kitchen in the restaurant. It provides hassle free ordering for both customers and the restaurant officials. This concept has also been incorporated in this proposal. It helps the user to virtually connect with the restaurant to satisfy their needs. As apart from this many of the papers prepared by many authors have been referred during making of the project.

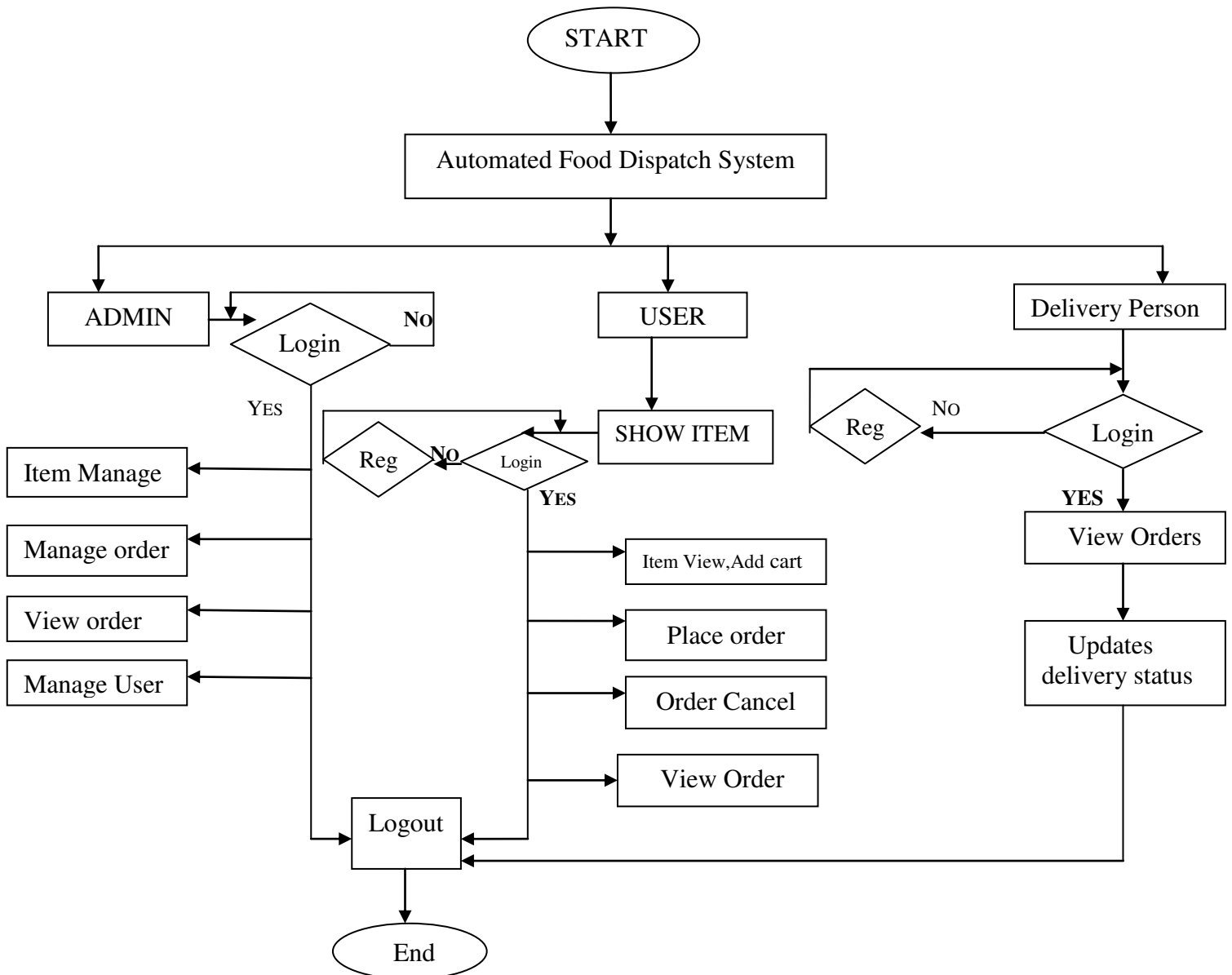
III. METHODOLOGY

The user and admin has to create an account in the portal. The admin can post the various kind of food available in the restaurants. The user can able to see the list of foods present in the restaurant. The required food can be chosen by the



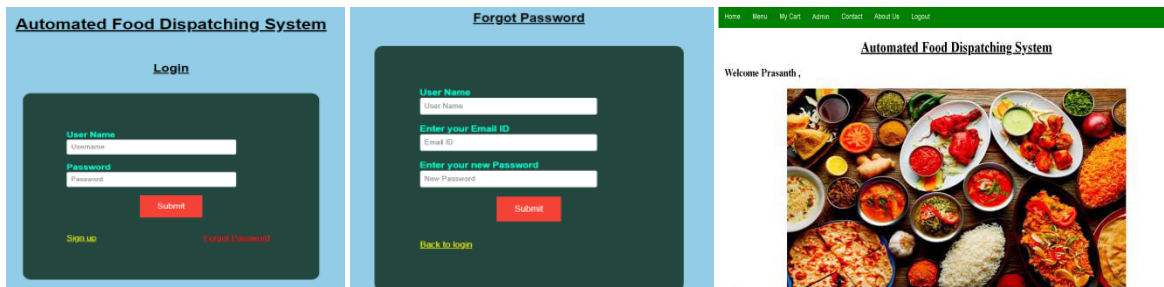
user and can be moved to the cart. After moving to the cart the user can place the order by clicking the by now option. As after that user receive the mail on confirmation of order the admin also be notified by email and the admin also will get notified by the order by the user. The nearest delivery person to the user will receive the order details using geo location algorithm based on latitude and longitude of user. As after the delivery person delivers the order. The person updates the status of the product.

The admin can able to see the number of users in the application .The admin also be able to manage the users in the application .The admin can able to update the status of the product whether the product is available or not. The admin can also be able to delete the available foods in the products section. The customer and admin receives email regarding the delivery of the order. The admin can able to monitor the order of the foods and he can able to see the status of food delivery. This is a user friendly and hassle free approach for both customer and the restaurant officials. User would be benefitted by this without any stress and tensions. By this user can get the food at their door step in a simple manner .It reduces the rush in the restaurants at peak hours. It also provides business to the restaurant /mess and also helps the user in getting the food at their door step.



IV. EXPERIMENTAL RESULTS

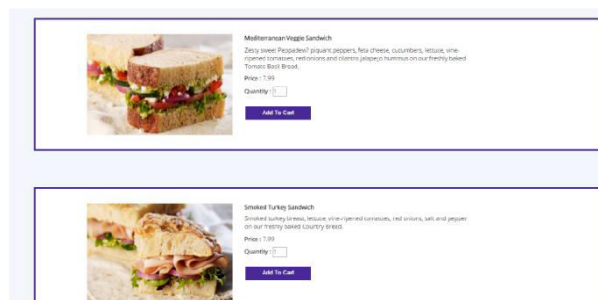
Figures 2a, 2b, 2c, 2d and 2e shows the representation of automated food dispatch system using geo location algorithm by an exemplar 2(a) shows the login screen of the automated food dispatch system . Fig 2(b) shows the feature of forgot password screen where if user can reset the password if he has forgotten. Fig 2(c) shows the home page of the application by displaying various options in navigation bar .



2 (a)

2 (b)

2(c)



2 (d)

Fig 2(d) shows the available food items which can be moved to the cart for purchasing. This application helps the user and restaurant to buy and sell the food products without any stress. This pictures depict how the application works as when the user login he sees the available foods and the desired food can be moved to cart as per his own wish. After that the user can place order for the foods in the cart.

V. CONCLUSION

Therefore, conclusion of the proposed system is based on consumer’s need and is consumer centred. The application is developed in considering all issues related to all users which are included in this system. Various issues related to Lunch/Tiffin Service will be solved by providing them a full-fledged system. By this both the user and restaurant can able to buy and sell the goods easily without any problem. This web application made for restaurant and mess can help the food industry in receiving orders. We have implemented a geo location algorithm in finding the nearest driver to the consumer in order to reduce the delivery time of the user.

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