Android Online Grocery Store

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Abstract— Grocery shopping is an android application where users can order and purchase groceries online. This system will allow local or budding shopkeepers to expand their business to a greater extent. The system would make it simpler for the user to manage an online list of items rapidly without any difficulty in accessing the services which primarily includes browsing and placing the order by stepping through few easy steps. The system is developed with a user-friendly and attractive GUI. It delivers a wide range of groceries available at not just one but many stores in your locality via online. The process starts with a pretty basic registration, IF the user enters the software for the first time. Further they can have login into the system to view the groceries and add them into their cart. Payment options broadly include Credit card payment or cash on delivery payment. Both of these methods are well secured and trusted. The system functionality of products and orders is stored on server side in a web service. While the records are maintained by us, the android app is for client usage. It consists of client side scripting for placing orders by connecting to the server side web service.

Key words: Grocery, Android

I. INTRODUCTION

Ordering groceries online has tons of benefit from the business and customer satisfaction point of view. Its attractive yet simple GUI helps the customers place orders in the least complex way. Firstly in the system, the end user have to register, if the registration has been already made into the database, then they can directly login into the system and carry out their shopping.

They have got to select the items they wish to buy, these items are then placed by the admin in the database. The items are inserted by applying a comparison algorithm which compares the price of the same product available in different stores. So as to make the product available for the user at the cheapest price. The items are added to cart. Then the user can check out from the cart which will take the user to the next page where he could view, alter and finalize the items and proceed to make payments which can be made through online mode or cod (cash on delivery). User can choose the delivery time as per their convenience and get the right product at right time

A. Activity Diagram

This section lists the activity diagram and describe the flow of activities in the system. The detailed description is then given after each activity.

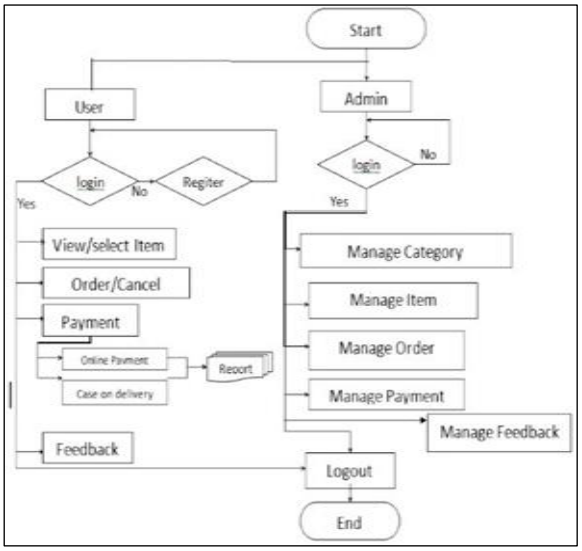

Fig. 1:

B. About us

This feature will provide the information about the owner, team members or partners and developers, information like the ranking of the website, average daily page visits, and journey (like when the system was launched, from where does the motivation came from) will be included

II. ER-DIAGRAM OF ONLINE GROCERY STORE

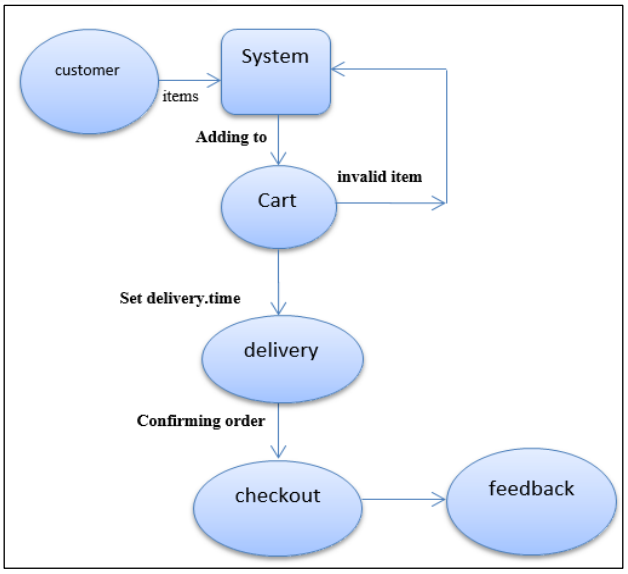

Fig. 2:

The above shown is an entity relationship Diagram depicting the working of grocery ordering system. ER diagram reflects the relationships that various entities involved in the system share among themselves, along with the entities.

III. MODULES

A. Registration Module

This application will be having registration module for the user. There will not be any registration for Admin.

B. Login

In this module the user can login with their registered username and password. The App will have login for users only whereas the web based version will have login to Admin.

C. Products Listing

Admin can add new products under specific shops. He can delete the product from the list if the product is out of stock.

D. Shopping Cart

The user can select products and add them to cart and shop the products.

E. Checkout

Checkout by entering your details for delivery.

F. Select Delivery Time

The user can select from the available timeslot and the admin will deliver the products to the user accordingly.
These were the major modules used in the android application

IV. EMPLOYEE

Rightly said by the wisest, that employees and workers are the anchors of the organization, they can't be bought but owned. They strive to give out their hundred to the organization and that is what brings up the true strength of the organization. On the whole, it's just like a cycle, everyone depends on somebody. The delivery sequence and choice is not same for everyone but varies person to person. It may happen that even sometimes a person says no to home delivery as he/she is passing by and can pick the parcel themselves. But it is almost an ideal case

V. WORKING

A. Customer

- NAME
  It is the composite attribute which contains two more attributes that are First_Name and Last_Name. That contains user's first name and last name
- .CUS_ID
  This is mainly to manage the huge database system where the entire data is being stored. It is apermanent identification number given by the admin to the customer to maintain customer history.
- CUS_ORDER_ID
  It will be unique for each order a day. But the same id can be repeated on a new day, as it is mainly for the restaurant's reference and to prevent any type of conflict.
- ADDRESS_ID
  An identity through which categorization of places may be done. As address may or may not be unique for each customer registered. But still, this identity helps the delivery person to identify the right place to deliver.
- PHONE
  The user's contact number is something that must be correct because if at some point of time delivery person gets confused with the address, it can be used for confirmation. Also, the restaurant authority can contact to their customers for any type of feed backs or know the delivery service is good or not.

B. Employee

- EMPLOYEE_NAME
  The name of the worker is important maintain their database of work and payment record. Also if any complaints are filed then it is required.
- TIMING
  Time is something most important to be valued .And one of the major reasons behind the success of this grocery ordering system. In order to maintain the business

C. Delivery Mode

- Urgent
  In some cases like uninvited guest arrival, late night. People prefer to pay more and get the order delivered urgently. So urgent delivery option is also available.so if they want some items to prepare some food they can get it urgent delivered.
- NORMAL
  This is the usual delivery option that user select it is the normal and majority people uses this option.

VI. PAYMENT

- PAYMENT_TYPE
  The user is provided with lots of options that he/she can option for making the payment depending upon their ease. There are many choices available for net banking, use of wallets like pay and i-cash cards, also the credit card and debit card also COD options are available too.
- PRICE
  It is the record of the total sum amount the user needs to pay, and after the payment, it is used to update in the server-side database to keep the record of the net profit or loss on daily basis.

VII. HOW IS IT DIFFERENT FROM OTHER ONLINE FOOD SERVICES?

1) We give the customer the best and cheapest price of the same product.
2) We have redeem point service where 1 point =1 rs which buyer can redeem to reduce the price while placing order the next time.
3) We give free shipping above 500rs.

VIII. FUTURE SCOPE OF ONLINE GROCERY STORE

A system to locate and track the customer orders in real time basis. Users can add GST to their account and the GST Number as per their Orders made and Bill Receipts received in their Login Module. We will increase the staff and will help others to generate their income by registering more grocery stores. We would also look to implement the live order tracking of the grocery

IX. HARDWARE REQUIREMENTS

- Android Phone with Api 14 and above
- 1 GB Ram
- 10 Mb Space
- Internet Permission on Android

X. ADVANTAGES

- User can purchase grocery products through his mobile phones that support android.
- User does not have to wait in long queue and does not have to struggle with trolleys.
- User can coolly sit at home and purchase the products according to his like.

XI. CONCLUSION

The users can purchase grocery online instead of going to the shop. The user can also select timing as per his convenience. Also step towards Digital India. This system is convenient, effective and easy for any legit individual to use, literally.

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