

## Digitalised Application of Regional Grocery Store

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### Abstract:

E-shopping is the emerging system now a day and the trend of e-shopping has also been started its curling steps into the field of grocery shopping but due to the superstitious belief of the customer towards their traditional local grocery vendor the due to the myth of online shopping products to be of low quality the online shopping in the field of grocery has not ensured the amicable result in order to change the trend of grocery shopping in India here we provide a web application as our product which provides a platform to linkup the local vendors and the customer in order to advertise and sell their products and to buy the products respectively both for the local vendors and the customers.

### INTRODUCTION:

Online grocery system is the emerging e-commerce now a day, but as we go through the present procedure of the grocery e shopping we come to know that the extent of grocery into e-commerce has not given the expected result due to traditional belief of the customers towards their local vendor where they have been buying since years long. Therefore there are many digital grocery apps which provide grocery via online e.g.: bigbasket.com and zopnow.com, but they provide the stock from their inventories. Where as we give a random solution to the present problem of online grocery apps i.e., to provide a platform so as to the vender's to register himself in the app which advertises himself in the application which is beenvisualised by the local area customers to buy their required product in their wishing vendors store and enjoy a an opportunity been given by our application to buy their wishing product via online from his own wishing local vender,

which reduces the time to buy the product to the customer and also provides the quality of the products which he wished to have. This application provides user friendly approach either to vendor to register himself in the application or for the customer to go through the sequence of stages from registering himself to ordering a product.

### REQUIREMENT ANALYSIS:

The online buying system these days have many ways of path but along every platform here we have to analyse the behavioural approach of the customer to buy the products and general list of products like the monthly list of products and product list according to age perspective and gender perspective and according to role of customer etc. These list of products according to all the perspectives is been generalised and a general view of all the requirement is designed so as follows. Here we have gone through the approach to provide the user friendly user interface to go through the registration and listing buying the products stages

### Requirements according to user perspective:

List of products according to categories such as age, gender and role of customer  
List of products according to the time perspective i.e month starting and middle and month ending  
List of shop vendors and marts in certain chosen 4 places  
User friendly GUI according to the user perspective

### System requirements:

Tool to create a web application  
Eg:-Eclipse  
Database, Eg hibernate H2

Back end: spring, java servlet pages  
Frontend: HTML, java scripts

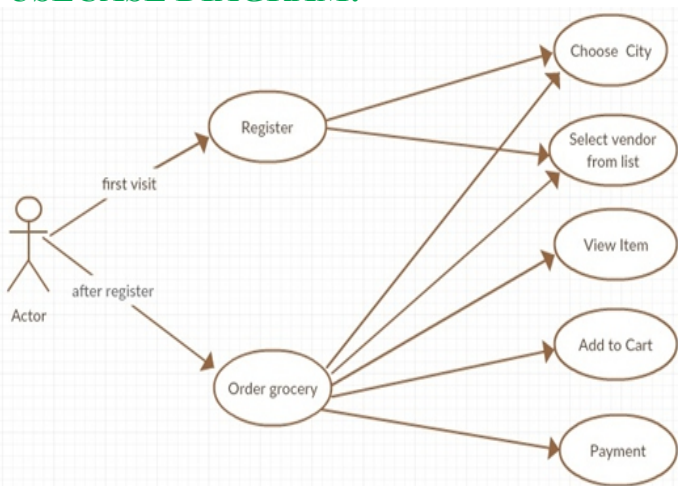
## DESIGN:

Based on the present E-commerce in the field of grocery application, we go through certain Major issues regarding user friendly GUI and application spatial requirement etc To overcome these issues we have gone through division of the design of the web application into two major parts  
Physical and logical structure of application  
External design of application

## Physical and logical structure of application:

Design based on physical requirement of the application is categorised regarding the spatial requirement of the application that is it should not exceed 50MB of size and the application should be open source  
The application should be designed in such way that the host should balance the load on application towards the user usability and maintain the application in order to reduce the time delay

## USECASE DIAGRAM:

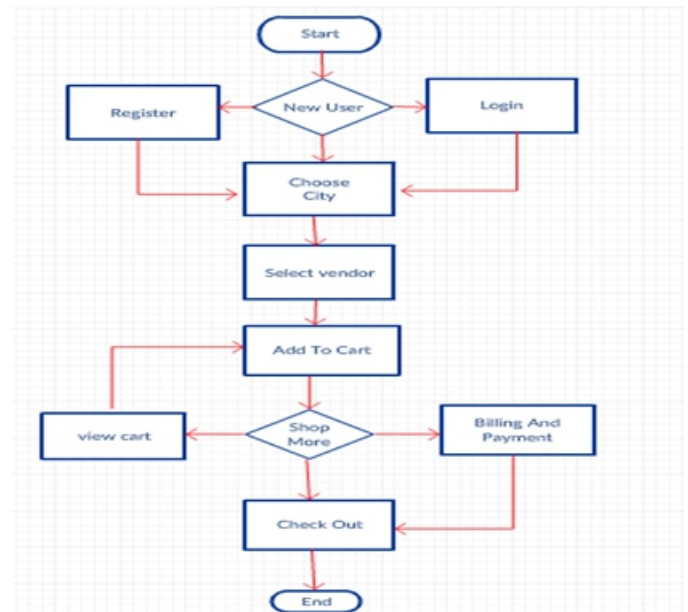


## External design of application:

The external design of the application should be design in such a way that it should have user friendly user interface.

The flow of the sessions should be arranged in unified manner

## FLOWCHART



## IMPLEMENTATION:

The online shopping is developing day by day in the world and providing all the facilities in one click manner so as to ensure the application to be developed in one click away the development cycle of this application is divided into 3 major modules

- 1.Customer module
- 2.Vendor module
- 3.Admin characteristics

The implementation of the above modules is been under-gone considering spiral model of software development lifecycle so as to ensure the accuracy in the execution of the project to produce the correct result. To implement the required application, the IDE used eclipse-mars in the environment of maven so as to ensure the java based implementation is functioning in order to implement the required application which is responsible to maintain the relation among the customer and the local vendor the application has to have the dynamic evaluation environment. The customer module of the application is responsible to provide a user friendly flow to the customer from 1- registering the details of the customer then 2- selecting the location of the customer which redirects the customer into the page which lists the vendor list in the selected locality then the further viewing and ordering flow is been carried out which redirect the customer into a cart page of the customer which after selecting the checkout button will redirect to the secure banking system in order to ensure

the security while paying the bill using any of e-money technology if at all been undergone. The application also provides an option of pay after delivery option. The vendor module of the application ensures the anonymous vendor to register himself into the application which will include to provide the details of his name and address details as well as to provide the name and address details of the shop and to provide the authentication certificate and the tax details of the vendor which has to be uploaded in the registration form. Then the vendor has to wait for the admin reply until and unless then he don't has the privilege to login himself into the application and cannot advertise himself as the vendor. After the admin been providing the privilege to the vendor he can edit or add his product list which is been displayed to the customer. The Admin is responsible to ensure the load balancing on the host of the application and also responsible to check the authentication of the vendor and to provide the permission to the customer and vendor appropriately. The implementation of the frontend of the application is been done using the html and java scripts, and backend is facilitated using springs and java servlet pages where as the database utilised is hibernate-h2.

## CONCLUSION:

The web application been designed and been given the implementation is built so as to provide the concluded webapp as the product to the customer and the vendor which ensures the responsibility to link the customer and the local vendor..

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