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Online Grains Shopping Store

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Abstract: *In the present scenario peoples like to shop online. For the better and easy shopping, website is created for Online Grain shopping store. Through this website peoples were able to select shop online grains. This website aims to buy and sell products online and can be accessible from anywhere to the globe.*

Keywords: *Online shopping, Grains, web store.*

1. Introduction

The Online Grain store is a web based application intended for online customers. The main objective of this application is to make it interactive and easy. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for user's to search for products specific to their needs according to Category: such as Grains, Fruits, and Vegetables. The search engine provides an easy and convenient way to search for products and the search engine would refine the products available based on the user's input. The application also provides "add to cart" feature so that a user can add a product to the shopping cart by adding the item from add/remove button and customer can buy objects by adding delivery details in checkout form. This website will available online and easily accessible from anywhere.

2. Related work

The goal of this application is to develop a web based interface for online retailers of vegetables, fruits and Grains. The system would be easy to use and hence make the shopping experience pleasant for the users. [1]The goal of this application is to develop an easy to use web based interface where users can search for products, view a complete description of the products and order the products. Add to cart feature which would allow the users to add a product to or remove a product from the shopping cart by add and remove button. A user can view the complete specification of the product along with various images and they can order product by adding delivery details in checkout form online web stores, such as Amazon and eBay, have gained huge popularity over the years because one can buy almost everything at these stores. These web stores also give an opportunity to a lot of small-scale companies and manufactures to reach the global market and to directly sell their products to people without involving different other companies or middlemen before their product can reach the shelves of a physical store. Further, instead of using the available platforms, manufacturers can bring a concept of designing their own web store to sell their products directly to the masses.

3. Software Interface

This section lists the requirements that are needed to run the system efficiently. The operating system needed for the system to run effectively, the interface to run the application, the driver for running Java web applications, the integrated development environment to develop the application, and the third-party tool used for editing purposes are as follows:

1. Operating System: Windows (Windows 10) or MAC OS
2. Web Brower: Internet Explorer (10.0 and above), Mozilla Firefox (3.0 and above), or Google Chrome
3. Drivers: Java Runtime Environment
5. Third-Party Tool: Pycharm, MySQL

4. Grain Store in use

The users of the online shopping-cart application can modify changes based on their roles, are customers (users) and the administrator (owner). These users are identified based on their experience and technical expertise.

1. Admin: The administrator is the owner of this online shoppingcart application. One must have a basic understanding of computers and the internet as well as prior knowledge for operating the eclipse and Java programming languages. The administrator is responsible for maintaining all the training documents required for the system. The administrator can perform the following functions:

- Assign or change the price of the items, update the items in the list, and delete the items.
 - View the history of the customers who purchased the items.
2. Users: [2]The users of this online shoppingcart application are all customers who would shop to test the application. These users are anyone with shopping experience and the know-how to browse through a shopping-cart application. They must have basic understandings about computers and the internet. The users should be able to perform the following functions using this system:
- View, browse, and select a category on the home page.
 - View, add, and update items in the cart.
 - Delete items from the cart.
 - Check out the items from the application or continue shopping.
 - Sign-on/login using a username and password.
 - Place the order by completing the order form.

5. The Functionality

This section contains the functionality of the online shopping cart application.[3]The functional requirements, as collected from the users, have been categorized as follows to support the types of user interactions that the system shall have.

5.1 Dashboard: Front page of the website display main contains of the project such as: website name, Buy option, Category, Cart and Sign Up.

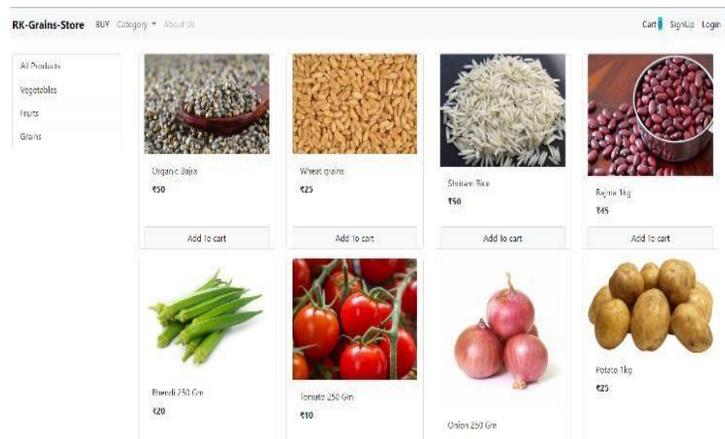


Fig. 5.1.Front Page

5.2 Login/Sign up page: To use this website user need to signup first by adding information like: First name, Last Name, Contact info, Email ID, Password

5.3 Product Category: User can categories different product by clicking on category tab. The users shall be able to view the different categories, select categories, browse through the items in each category, and add items to the shopping cart. The users shall be able to view the shopping cart and more information about each item.

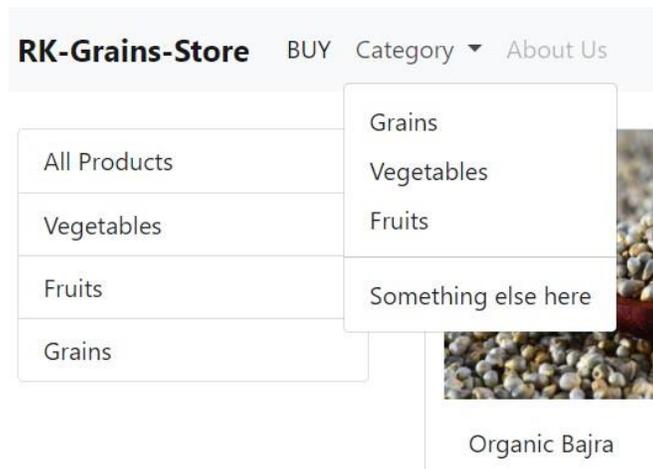


Fig. 5.3. Category Dashboard

5.4 Shopping Cart: After the first run of the application, the users shall be able to see their designated home page. After browsing through the items and adding items to the shopping cart, the users should be able to view the items in the shopping cart. The users shall be able to check out or continue shopping. The users shall be able to delete items from the cart.



Fig. 5.4. Shopping Cart

5.5 Add/Update/Delete Shopping Item: Admin can perform different Administrative task from Django Administrator: he administrator is able to add new items to the list of shopping items. The administrator is able to modify/update an item's price and description. The administrator is able to delete items from the main page of the shopping-cart application.. [2].

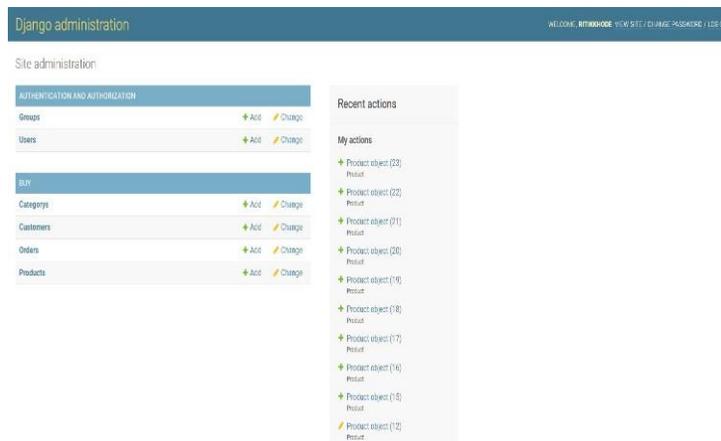


Fig.5.5. Administrative Dashboard

5.6 Class Diagram:

1. User Authentication: [4]This class is utilized to get user information from the database and is for authenticating the users. The class diagram in Figure 4 shows the methods that are used in this class and the description of each class is listed below. Authenticate User: This message is used to authenticate a particular user who has provided the login credentials and wishes to login in the system. This method checks the credentials in the database. Check User Name: This method checks to see if the provided username already exists in the database. If there is an existing user with the same name, then the user is prompted to select another username to create an account. Register User: This method allows a new user to register for an online shopping-cart account by entering a valid username and password. If the username already exists in database, the user will be prompted to choose another name. Login User: This method allows the existing users to log in to the database with the credentials they used for first registering.

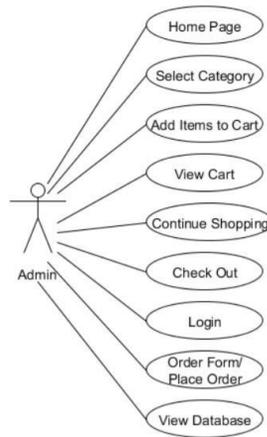


Fig. 1. Online Shopping Cart Application System Use-Case Diagram: Admin.

6. Future scope

Increasing number of mobile shoppers thanks to the high mobile penetration in India. We may see wearables becoming more commonplace with more small stores going online, local marketing and branding may get a further boost Greater personalization of ads, retargeting, and automated marketing to ensure maximum conversion of visitors, abandoned cart shoppers etc.

Advantages offers to sellers:

Sellers can increase and widen their reach to way beyond their cities – they can get customers from literally anywhere in the world, provided they are willing to ship. Even small businesses can increase their sales and grow by selling online They can enjoy massive savings in infrastructure, as they need not rent or purchase space in pricey locations or spend on interiors, display etc. [5]As online stores can be operated with minimal staff, there is huge savings in salaries; sellers can also save on overheads like electricity and other utility bills. Decision making is another popular area. The importance of Decision making has been reported by many researchers in varied fields. Some of them being E-LEACH protocol, Smart Home Appliances Controller Using IOT, predicting suicidal behavior by Machine Learning [6, 7, 8]. Online storefronts are open 24/7 to serve customers – no more worrying about missing out because of holidays, strikes, or even lockdowns. They can respond quickly to market demands, Sellers can deal in a wide range of products.

Advantages to Shoppers:

Convenience in time – [9][10]people can shop from home, while travelling, and whenever they want. No worrying about store closing, holidays, commuting, traffic jams etc. They can easily compare products and prices at different online stores With multiple payment options, it offers more convenience and safety as the gateways are secure and encrypted Elderly people, differently abled people, those who are confined to their homes due to illness or injury, mothers with little children – for such people, online shopping is especially helpful, as they can shop comfortably and without fear of falling, kids running amok, getting pushed and shoved, and so .Online stores clearly mention return and exchange policies on the site, making it easy for shoppers to decide.

7. Conclusion

The 'Online Shopping' is designed to provide a web based application that would make searching, viewing and selection of a product easier. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. User can buy product and add into cart. For purchasing they can add delivery details in checkout form.

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