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E-Commerce Module Using SaaS Cloud Services

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ABSTRACT: Online Grocery Shopping is something that has come to be very indispensable in the cutting-edge scenario. The purpose is simple, the Covid-19 pandemic that rattled the world when we consider that early 2019, made overcrowding stores a component to contagion. Shopping on-line for groceries from our smartphone software helps keep away from this risk. Actually, purchasing groceries on-line isn't a new phenomenon in India. It's been right here seeing that pretty a few years. In a lengthy run the estimation suggests that, grocery buying made up solely about 5% of all purchases made online. The year 2021 is offering that tons wished shot in the arm for on-line grocery shops in India. But buying fruits and veggies from on-line markets may also now not appear healthy, as they incorporate preservatives for lengthy time period storage purposes. People will have to pay a lot in assessment with the retailers they used to buy. This Project is an E-commerce internet site via which clients can purchase clean and fresh greens and fruits at once from farmland barring mediators. So that, humans will get best merchandise in brief transport timing from farmers itself. Here, SaaS cloud offerings are used for developing the webpage. The SaaS platform used is WooCommerce, a plugin to customise the website and add greater aspects to it, making the internet site extra user-friendly. The two important dreams of the assignment is, "FARM to PLATE"&"FRESHER AS WELL AS CHEAPER".

I. INTRODUCTION

PROBLEM DESCRIPTION:

Due to Covid-19 pandemic, the ratio of the humans shopping for merchandise on-premises like, markets, stores, avenue carriers are lowering day with the aid of day. Meanwhile, the ratio of human beings shopping for merchandise online, in structures like, Flipkart, Amazon, Alibaba have been increasing, due to pandemic protection regulations. Also, they flourish due to the fact of on-time shipping and rapid on-line transactions. But through these systems it is solely feasible to purchase merchandise like family goods, furniture, recreation essentials, and it is quiet essential for these web sites to attain the believe of consumers in accordance with the timing of delivery, value and nice of the products. There are identical necessities whilst promoting greengroceries on-line as well.

GREENGROCERY SHOPPING MODULE:

When it comes to greengroceries on-line buying websites, the first and predominant worry of consumers will be the Quality of the product that they receive, whether or not the product is sparkling or rotten, wholesome or spoilt counts. Packaging pleasant is incredibly essential because, the merchandise we provide want cautious and appropriate packing. Timing of transport is additionally essential as the product may additionally get spoilt in a brief span.

IDEOLOGY BEHIND THE APPLICATION:

Being a phase of this lockdown, we being aware of how hard it is to go out and purchase the greengroceries from the market following the security measures at the identical time. To keep away from this, we have developed a utility which helps the human beings by means of overcoming the penalties of the pandemic where, clients can view the depended on farmer's portal and vicinity orders of fruits and veggies in required quantity. The utility ensures the first-class of packing and timing of transport with prior notification.

II. PROPOSED SYSTEM

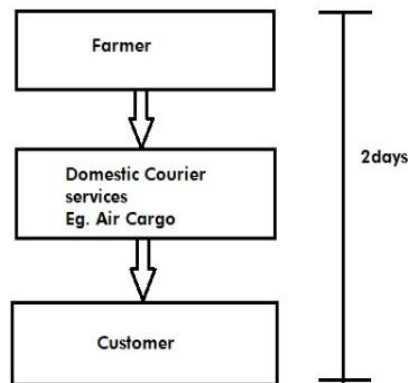
MODE OF OPERATION:

Sites like BigBasket, JioMart, Groasket, Grofers, which are supposed for on-line greengroceries and groceries purchasing are some of the proposed device of this project. These applications have been following traditional method, i.e., the fruits and veggies are accured from a range of sources and saved in a warehouse. Later they are packed and shipped from the warehouse in accordance to the requirements/ orders of the customer. But the items that are saved in a warehouse may also comprise delivered preservatives or colouring in order to preserve them clean till the items get delivered. In our mission we comply with the Drop-ship method, the place the items are packed and couriered by way of the farmer itself. The exact is delivered through Domestic couriers like Air Cargo courier services.

FLOW DIAGRAM:

Under is the drift sketch of how the shipping is carried out in proposed method.

Proposed method of delivery



III. WORKING OF THE APPLICATION

LOGIN:

Basically there are two types of login. They are as follows,

- SELLER LOGIN
- BUYER LOGIN

SELLER LOGIN:

- The Admin of the Platform logs into the WordPress portal and Updates the data for the application.
- The admin gets information about the Quantum of goods available and the respective prices in order to enter them into the application.
- Once the Data are uploaded, the Goods are picked up from the farmers and delivered within 2 days of time, in cases of long distances.
- Later, the orders and their payments will be collected from the customers who place the orders.
- The money collected from the customers are transferred to the farmer s without any loss.

BUYER LOGIN:

- The buyer's login is similar to any other login portals.
- The buyer's need to create his/her own account in order to purchase.
- Coupons and offers are updated daily which can be applied by the customer.
- Buyers can view their cart, and add or delete products in accordance of their needs.

APPLICATION SPECIFICATION

SOFTWARE REQUIRED:

- Operating system:- Windows 7 or above.

- RAM:- 512MB+
- Xampp 8.0.2 (64 bit)
- WP 5.6
- Woocommerce Plugin

SPECIFICATIONS:

- WP(Frontend) : It is an open source software and any one can use. WP is a strong content management system because of its origin in blogging.
- Woo Commerce: Woo Commerce is a free WP plugin that adds e-commerce functionality to your WP website so you can have an online store. With just a few clicks, your WP website turns into a fully-functional E-commerce website.
- Backend: PHP
- Database: MySQL

IV. IMPLEMENTATION AND RESULTS

ADMINISTRATOR FUNCTIONS:

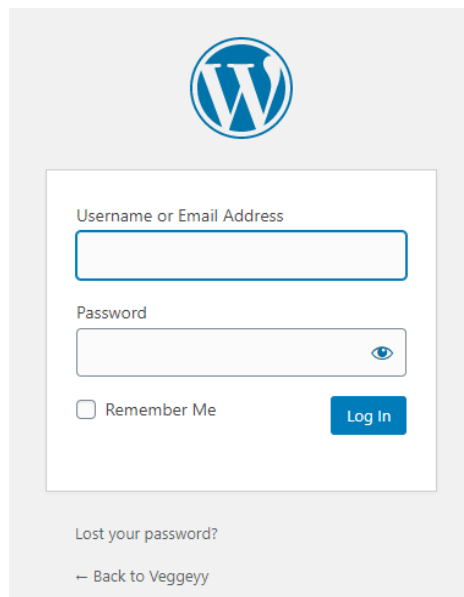


Figure: 1 WP Login for Admin

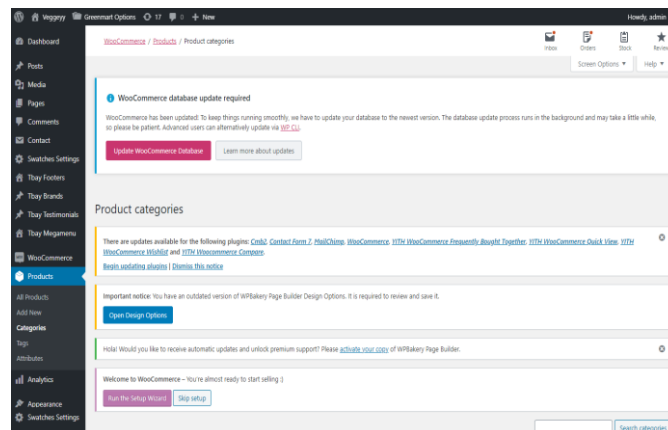


Figure: 2 Admin Dashboard

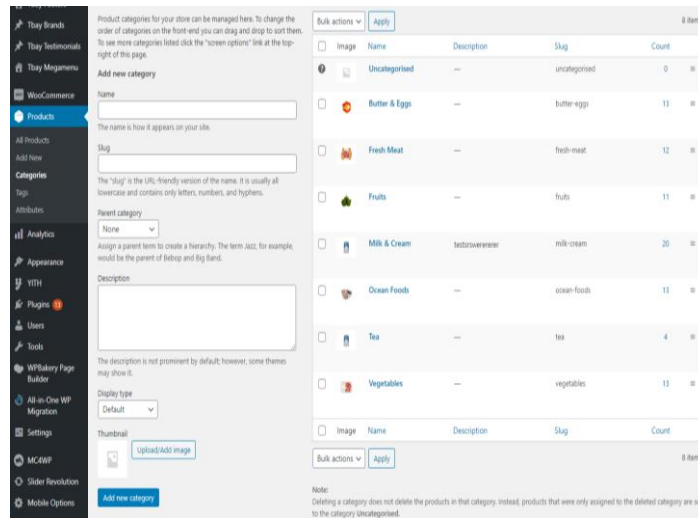


Figure: 3 Products dashboards, where the admin can add, delete and update the products.

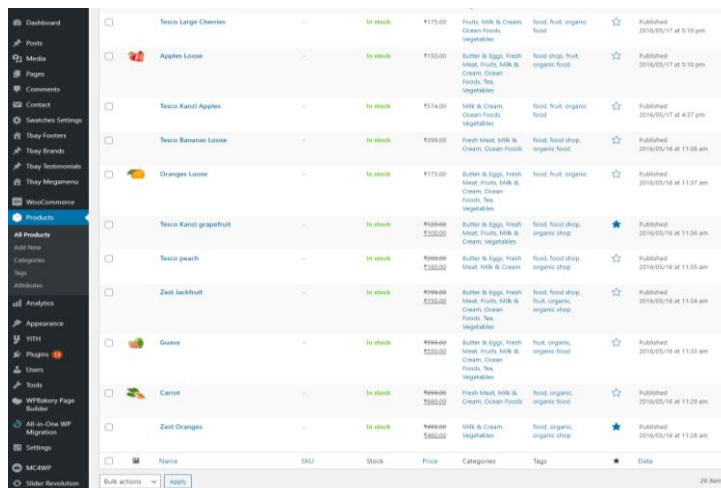


Figure: 4 View all products page.

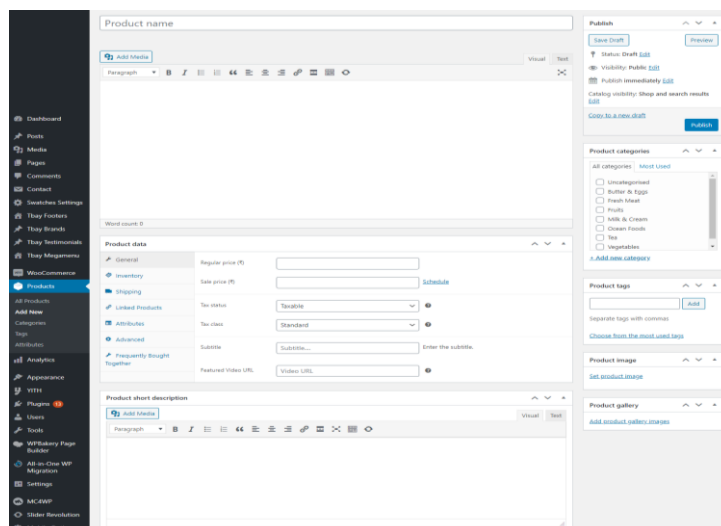


Figure: 5 Add new product page

USER FUNCTIONS:

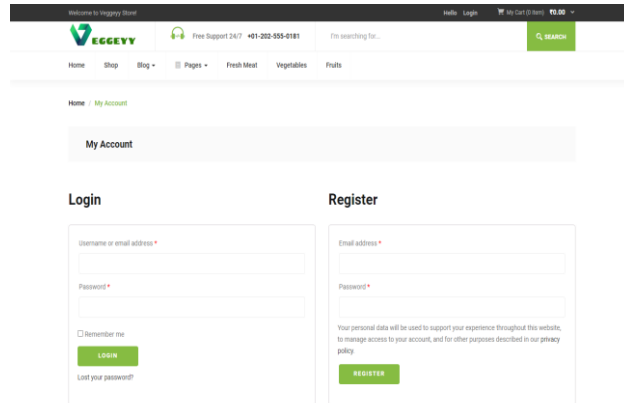


Figure: 6 User login and registration portal

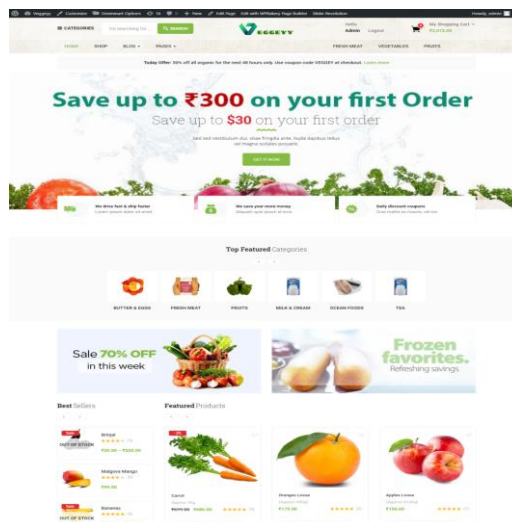


Figure: 7 Home page of the site

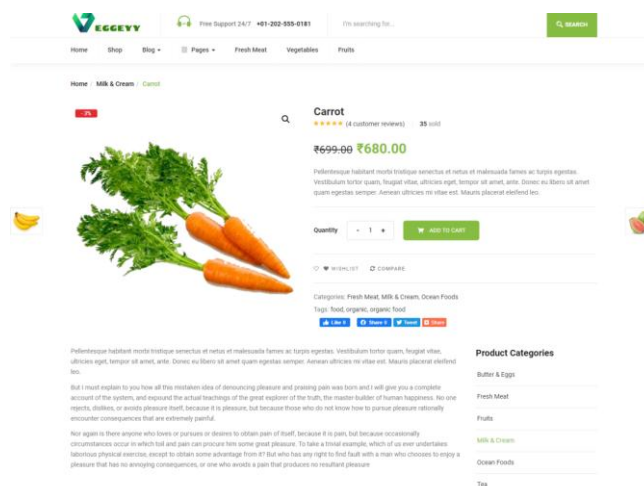


Figure: 8 Single product page with product description, product price, and other information.

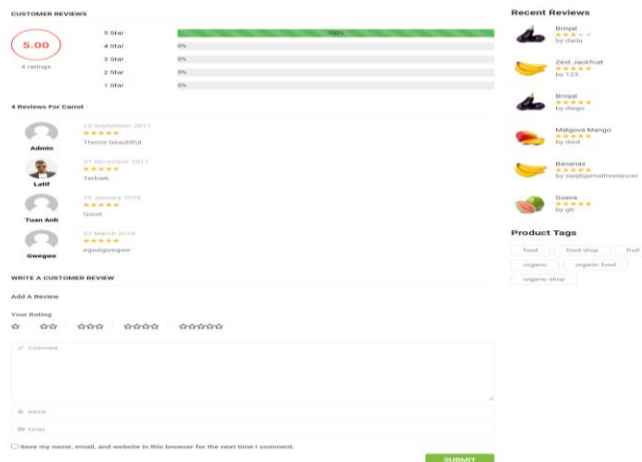


Figure: 9 Reviews and Comment section

PLACING ORDER AND DELIVERY:

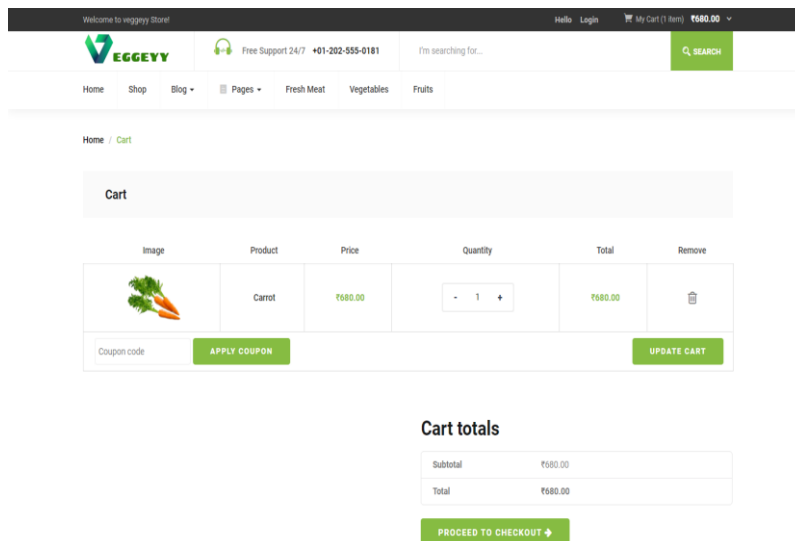


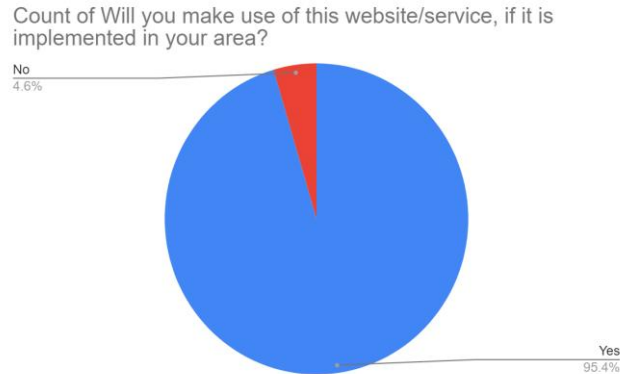
Figure: 10 View cart and checkout page

- The delivery of the goods is done by The Domestic Courier Services , for example: AirCargo.

V. ADVANTAGES

- This project serves as an exclusively free platform that helps linking of small scale farmers and the customers. During delivery or Purchase neither of them will have to pay excess money other than courier charges.
- Date of delivery is set default as 2 Days, so quality of the good is assured.
- The rate of sale is fixed on basis of the Daily Market Pricing, So that farmers receive expected money back and customers can also buy goods of reasonable rate.
- Both the buyer and seller can sell/buy the vegetables at their doorsteps itself, reducing the transport budget.
- This project will encourage farmers to sell their produce with an expected gain, rather dumping those on roads.

VI. SURVEY



VII. CONCLUSION

Through this project, the farmers can deliver their products to the buyer at a decent price, using this website that has lot of functionalities provided by Woo Commerce plugin, makes the website more user-friendly and preferable. This project paves way in understanding the needs of both customer and farmer. The most important thing a customer expects is, consumption of fresh and healthy vegetables without any preservatives or chemicals. The most prominent thing from a farmer side is that, they receive an expected and a reasonable sale for their greengroceries. Through this project, both of their needs can be reached. According to the safety regulation of this pandemic, avoiding crowds and appreciating online shopping has also met its purpose. Implementing this project may help people get fresh greengroceries in a very reasonable rate.

VIII. FUTURE ENHANCEMENT

- The movement of order can be tracked using the “Order-Tracking System”.
- The Quality of the Product can be verified using Quality tracker with AI.
- Automated quality tracking, which would operate on a weekly basis, will also be Enabled.

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