

E-COMMERCE WEBSITE FOR BIKE ACCESSORIES

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Abstract:

In this era of internet, E-commerce is growing by leaps and bounds. ECommerce(electronic-commerce) is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. These business transactions occur either as Business-to-Business(B2B), Business-to Customer(B2C), Customer-to-Customer(C2C) and Customer-to-Business(C2B). Here we are building an e-commerce website based on Business-to Customer(B2C). An e-commerce website built for a bike accessories company to scale up business throughout the pandemic and post-pandemic. Our solution is well equipped with an upfront tech stack, the backend is built on python, frontend vue.js and elastic server capabilities. Our Project eases people to have their biking accessories within their reach without moving out and can also avail great varieties with customized options which put them in a comfortable zone.

Keywords: *E-Commerce, Bike Accessories, Business-to-Customer(B2C).*

INTRODUCTION

It is known globally that, in today's market, it is extremely difficult to start a new small-scale business and its sustenance with competition from the well-established and settled/brand owners. Most often, even if the quality of the product is really good, due to a lack of advertisement or business at the small scale, it just becomes another face in the sea, and the product does not reach a larger group of customers. In today's fast paced life of today when everyone is squeezed for time, the majority of people are finicky when it comes to doing physical shopping. Logistically, a consumer finds a product more interesting and attractive when they find it on the website of a retailer directly and are able to see item's details online. The customers of today are not only attracted because online shopping is very convenient, but also because they have broader selections, highly competitive prices, better information about the product (including people's reviews) and extremely simplified navigation for searching

regarding the product. Moreover, business owners often offer online shopping options at low rates because the overhead expenses in opening and running a physical store are higher. Further, with online shopping, their products have access to a worldwide market, which increases the number of customers from different ethnic groups, adds customer value, and is overall sustainable in the marketing. 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.

LITERATURE SURVEY

E-Commerce websites are increasing rapidly now-a-days. If we look at Amazon, Flipkart and other websites they use enterprises to reach the product to the customer. Coming to our website it is our own brand where people can directly buy the products from the manufacturer. Due to this the price of the product is also less which is very beneficial to the customer. Our website also encourages startup companies where they can sell their quality products on our platform. A literature survey or a literature review in a project report is that section which shows the various analyses and research made in the field of your interest and the results already published, taking into account the various parameters of the project and the extent of the project. It is the most important part of your report as it gives you a direction in the area of your research. It helps you set a goal for your analysis - thus giving you your problem statement. The buzzword e-Commerce is spreading widely in the present world of ICT by its simple applications. The basic objective of this study is actually exploring the difference between the traditional & online shopping and the effectiveness of eCommerce in India. From the study of Daffodil International University, we can come to a conclusion that convenience and time are the main attributes for making the decision to shop online rather than traditional shopping in India and we also found out that young consumers are more comfortable and satisfied to make online purchases.

PROPOSED SYSTEM WITH SPECIFICATIONS

We built a system that collects all the data using machine learning and also detects the intruder using the no of requests from the browser client. The advantages of the proposed system are Machine learning techniques can help to reduce the website maintainer to manually take care of the intruders, Computationally simple and fast. Also helps in improving the accuracy performance by detecting the right intruder as our system continuously monitors all the status. The Software requirements used are Python, nodejs(javascript run time) ,vuejs. The python version used is 3.9.1, vuejs 2 Operating System Linux / Windows, IDE Visual studio code. The hardware requirements are Processor I3 or above RAM Capacity 8GB, 4GB Processor Speed 2.40 GHz .Following Non-Functional Requirements will be there in the insurance to the internet: Secure access to consumer's confidential data, 24X7 availability, Better component design to get better performance at peak time. Flexible service based architecture will be highly desirable for future extension. Non-Functional Requirements define system properties and

constraints. Various other Non-Functional Requirements are: Security, Reliability, Maintainability and Portability.

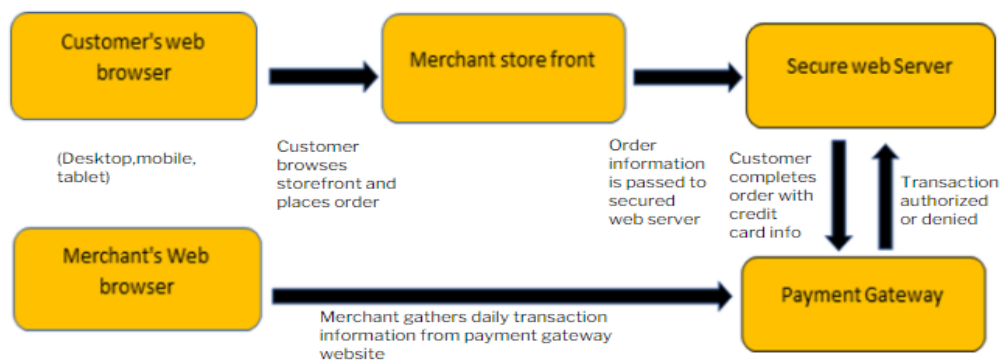


Fig. 3.1 Architecture for E-Commerce Website

Pseudocode:

Productdetail.vue:

```

<template>
<v-row justify="center">
<v-dialog v-model="dialog" fullscreen hide-overlay
  transition="dialog-bottom-transition" >
  <template v-slot:activator="{ on, attrs }">
  <v-btn color="purple" class="mt-5" small dark v-bind="attrs" v-on="on">
  Add Product
  </v-btn>
  </template>
  <v-card>
  <v-toolbar dark color="purple">
  <v-btn icon dark @click="dialog = false">
  <v-icon>mdi-close</v-icon>
  </v-btn>
  <v-toolbar-title>Add Product</v-toolbar-title>
  <v-spacer></v-spacer>
  <v-toolbar-items>
  <v-btn dark text @click="dialog = false"> Exit </v-btn></v-toolbar-items> </v-
  toolbar>
  <v-subheader>Add Product</v-subheader>
  <v-stepper v-model="e6" vertical>
  <v-stepper-step :complete="e6 > 1" step="1">
  Create Product
  <small>Admin</small>
  </v-stepper-step>
  
```

RESULTS & DISCUSSION

Home page:

In the homepage of an E-commerce website for bike accessories, it contains a register or login button along with the cart button to show the items which are saved in the cart. There are many accessories like helmets, luggages etc so that the user can buy the accessories which are required.

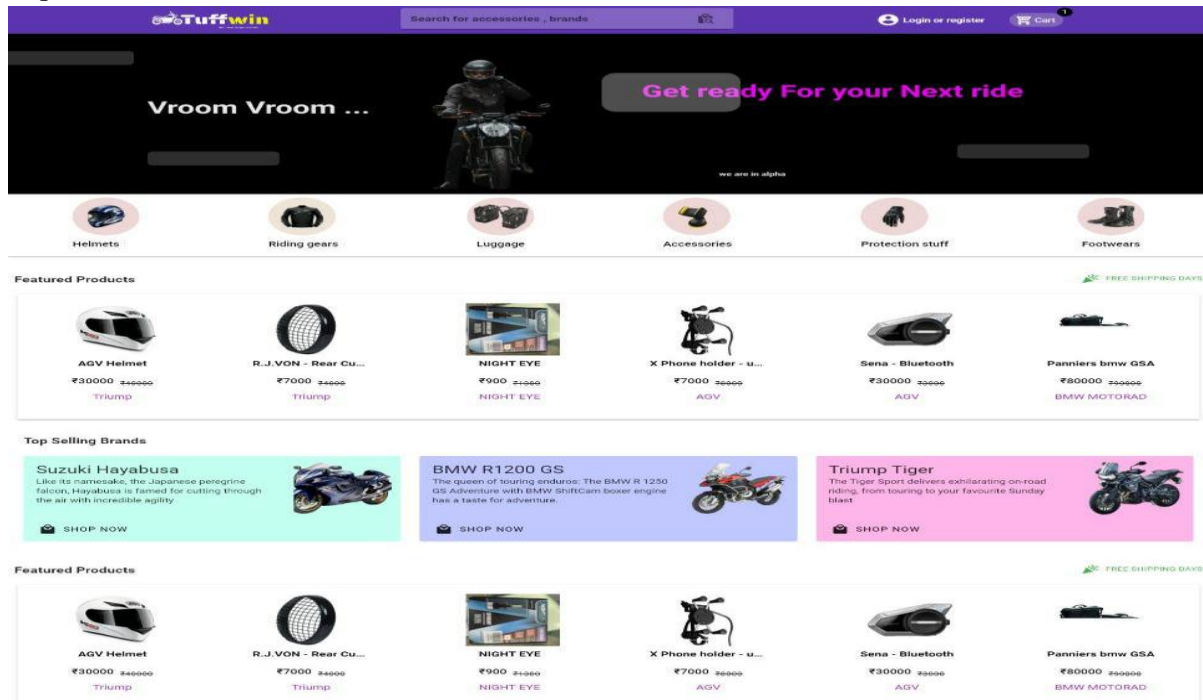


Fig. 3.2 Home Page

Registration page:

In the registration page the user has to register so that he can get access to all the products which are available. The registration page contains the details of the user like email-ID, password and phone number. After the user enters the following required details the account will be created.

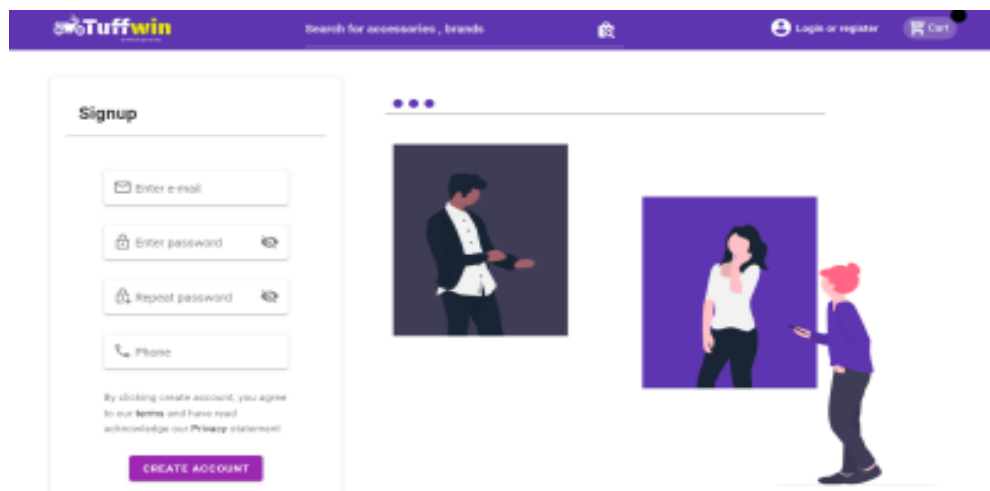


Fig. 3.3 Registration page

Order Successful page:

After the user selects the product, the user will be redirected to the payment page and after the completion of payment the order will be confirmed and the following message will be visible to the user on the screen.

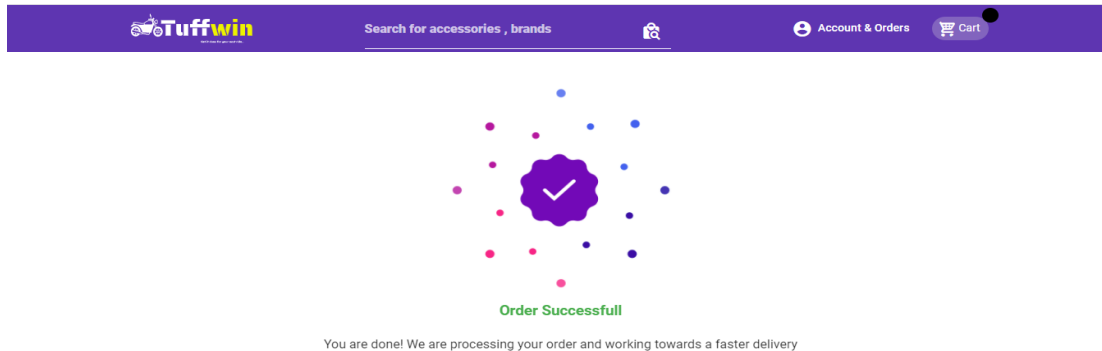


Fig. 3.3 Order Successful page

Table. 4.1 Test Cases

Req_id	Tkt_id	Req_description	Expected Output	Actual output	Req_tckt_status
1	101	If the user is new then he Registers	Home page	Home page	Pass
2	102	If the user is existing then he Log In	Home page	Home page	Pass
3	103	User browses or searches for the product and adds the product to the cart	Shopping cart	Shopping cart	Pass
4	104	Before buying the product user checks the shopping cart, If he wishes to buy he clicks “Buy Now”	Check Out	Check Out	Pass
5	105	Before buying the product user checks the shopping cart, If he don't wishes to buy he clicks “Remove the product from cart”	Home page	Home page	Pass
6	106	The User adds the Quantity of the Products he wish to buy and clicks “Check Out”	Payment page	Payment page	Pass
7	107	User gives the shipping address	Order Successful	Order Successful	Pass

		and Mode of payment and buys product and he gets a invoice Message and Email	page	page	
8	108	User gives the shipping address and Mode of payment, If payment fails	Payment page	Payment page	Pass

CONCLUSION & FUTURE SCOPE

Economic growth is defined by, among other things, material capital formation, human capital formation and the creation of innovation. Put another way, economic growth is determined by the amounts and types of capital and labour that are invested, and how they are utilized for production and innovation. The Conclusion is that no matter what kind of economic society one visualizes, the issues of investment of capital and labour resources, as well as innovation, are of extreme importance. The E-Commerce industry is seeing tremendous growth in the country. While several factors contribute to this growth, you must keep in mind that not all ventures are successful. You must design a website with the relevant workflows that will help you draw more visitors to your website.

There is a better scope for E-commerce websites in the coming days. They really encourage a lot of people to shop online. As E-commerce is very convenient to shop and there are a lot many options compared to traditional shopping, people really will be more enthusiastic to shop online. In the future E-commerce will definitely have wonderful scope like user experience will be improved, growth of their own branding and there is more outreach for E-commerce.

REFERENCES

- 1) Postman API- Django Documentation. Version 2.0. 2018. Web Document. . Accessed 15 April 2018.
- 2) Django Documentation – FAQ: General. 2018. Django. Web Document. . Accessed 15 April 2018.
- 3) Django Documentation – Templates. 2018. Django. Web Document. . Accessed 5 May 2018.
- 4) Model-View-Controller (MVC) in iOS: A Modern Approach. 2016. Peres, Rui. Web Document. . Accessed
- 5) Programming API's In Python
- 6) <https://www.django-rest-framework.org>
- 7) <https://docs.djangoproject.com>
- 8) <https://vuejs.org>
- 9) AWS Mastering e-Business 1 ED by Paul Grefen 0415557879 US ED 10) International Journal of Electronic Commerce volume 25
- 11) Journal of Electronic Commerce in Organizations
- 12) The Complete E-Commerce Book
- 13) Building a Story Brand
- 14) Digital Business and E-Commerce Management