



# E-Commerce User Interface with Virtual Trial Room

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**ABSTRACT:** Everyone loves to customize their goods, be it colour, shape, dimensions, the manufacturing materials or the actual content in the original product be it a small ring or an expensive car, enhancing its visual appearance. And in today's world, the demand for custom-made products is increasing ever so with expectations of a quick, safe, and convenient delivery of the products. With the ever-growing trend of getting personalized products, several markets have come up with various options to cater to the needs. The objective of the paper is to develop a website that will produce cost-effective custom-built products with the benefit of previewing the options before the purchase of the actual product.

**KEYWORDS:** Lazarus ( Web Site ) , Canvas ( Designs ) , Database ( History ) , SMTP- Simple Mail Transfer Protocol , CMS – Content Management System , Bootstrap- Eye Catchy User Interface.

## I. INTRODUCTION

The Internet has become a major tool that has fulfilled the development of global business. Due to this, it has enabled people to carry out business transactions remotely. With internet access all this is possible, this explains the reasons why most businesses nowadays treat E-Commerce Website development seriously. It's an online store for fashion and its E-Commerce website with a payment gateway, user carts, and admin dashboard. The iconic feature is it has built-in editing mode for most of the products available on the site. Customers can choose their product as same as any other E-Commerce website and can add or customize the design as per their choice, the best feature is that it also provides a preview ( Virtual Trial Room) of the customized product before the move to the payment methods. Customers make debit/credit cards as well as Paytm payments. Thus, customizable E-Commerce website provides customers a better platform for online shopping using visualization, one can have their products see on themselves with trial room and can have a better assessment regarding the product.

## II. METHODOLOGY

Open the home page/product page of the website named Lazarus.

1. Choose the product of your choice. Product available here are funky tee shirts , mugs , mobile cases , etc.
2. Choose from default designs provided by the website or upload a photo of your choice for customization. For this process of customization software named Canvas is used with the help of canvas it becomes easy for customer to design their own product or upload a file on the selected product. Here in this customer gets all the customization tools like size chart and some new funky designs.
3. Once the customization is done by the customer it will move to pricing page now this pricing will be evaluated as per customers designs customer still can edit he's custom goodies any time before the final transaction . Customer still can add or remove any design as per his wish.
4. If a customer is satisfied with the final preview of the product he then moves to the payment gateway . Payment gateway is completely secured by Token approach and customer can have an payment option of cash on delivery , Paytm , debit/credit card.
5. If customer is not satisfied with the product then customer can add a product to a dedicated cart which is completely saved on the database for this MySql is used. To add/ delete product from the cart Content Management System ( CMS ) is used with the help pf cms data is secured in the database of the login name.



6. If customers is done with the payment page a Thank You message will pop on screen and a sms as well as an email is sent on the registered mobile no and email address. For this service of tracking Simple Mail Transfer Protocol (SMTP) is used with the help of this a customer can track its own packaging . Once the product is delivered a feedback sms will be generated to rate product as well as delivery. All the feedbacks are collected by admin dashboard.

**FRONTEND:**

In this, we have used HTML CSS and JavaScript for building frontend for smooth and greater user experience. For our main part of the system which is to create your custom goodies, we have used canvas. We have also implemented an admin dashboard for managing orders. As already mentioned above customers may tend to add/delete products from the cart for that adding/deleting CMS is used. In our website coupons can be generated for bulk orders. We have used the Bootstrap interface to make it more eye-catchy. Once the order is placed customer can track their order via Email for this SMTP protocol is used for sending messages or order status checks.

**BACKEND:**

In this, we have used Spring MVC for the backend to frontend purposes. Just to keep customers cart available and safe MySQL is used for database purposes. Customers may tend to add/delete products from the cart for that connection from the server to the database is required to achieve this connection tool named Hibernate is being used. As the payments are done online so the security should be the priority just to maintain high standards of security Token approach is used. This application is fully ready to deploy with payment gateway integration.

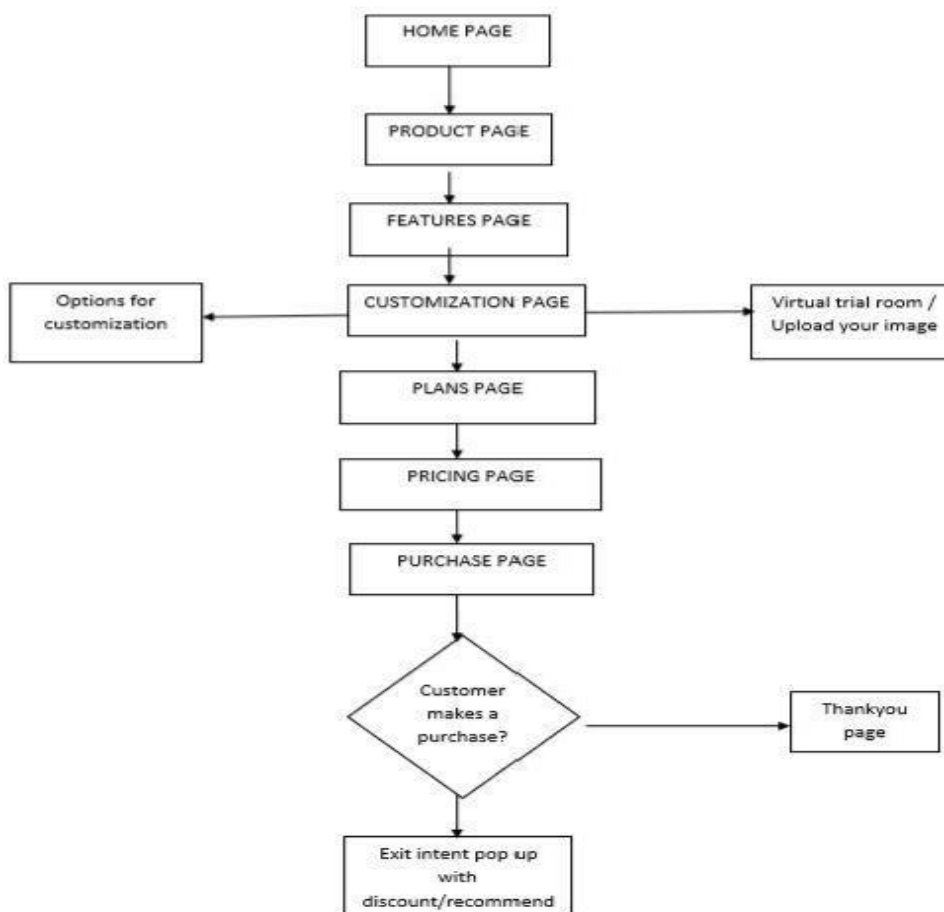


FIGURE 1 : FLOW CHART



### III.RESULTS

Initially, the webpage would require your login credentials if the customer does not have a user id website will ask the customer to create one for smoother transactions. Customers can still visit the site without login into it. Once you login to the page customers' database is created with this customer is the benefit with features like add/delete to cart or autofill address or autofill card credentials apart from CVV number. Once the product is purchased customer will receive an SMS /mail on the provided Mob no or email address.

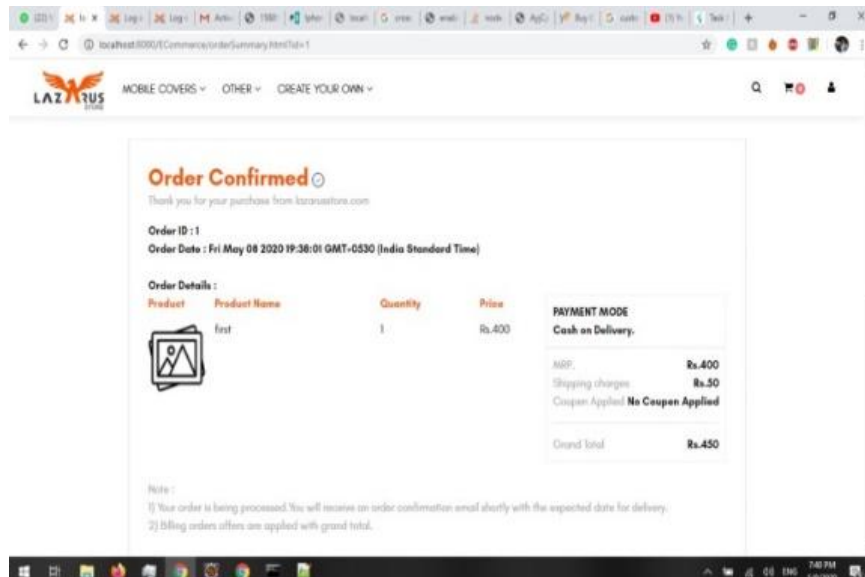


Fig 2-Order Confirmation Page.

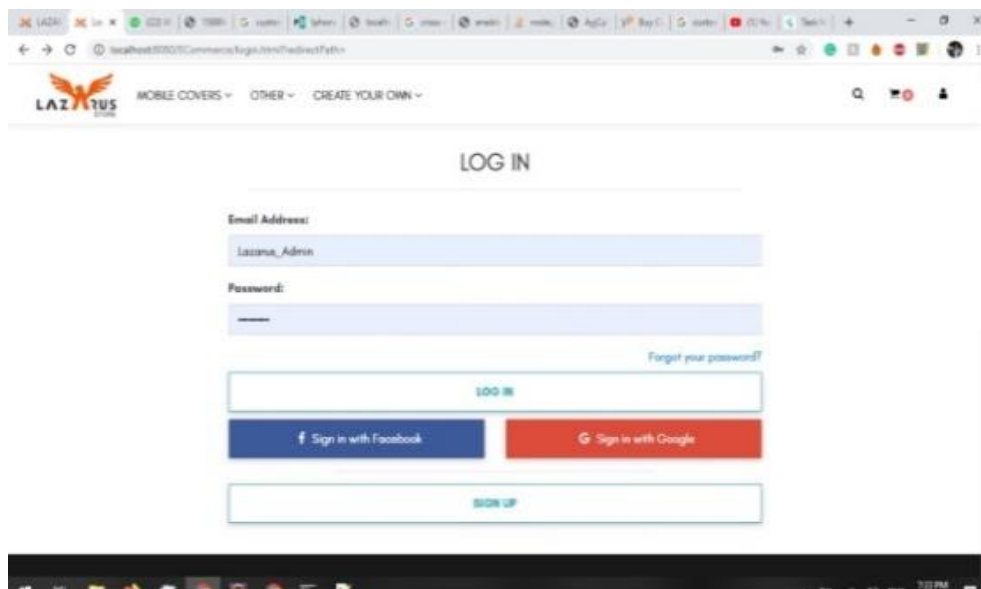


Fig 3- Login Page

### IV.CONCLUSION

In this paper, we have successfully explained E-Commerce User Interface with Virtual Trial Room as this user interface is ready to deploy. This user interface is developed keeping in mind the needs of customers who always wants their product customize in a very unique manner this user interface will provide a platform to customers to design their product as per their desire . This user interface is very eye catchy yet simple to use at the same time. Many customers



will be able to design their own product in a timeless manner . Literature survey says that currently there is no such user centric interface being made at this platform where a customer can really customize their product can also have preview of the same with a reasonable costing as many other user interfaces provides a customer only a shopping as an option here Lazarus provides a unique way of shopping as well as customization as an option.

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