Customized Apparel Shopping

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Abstract

Online shopping has become a major trend because of its minimum capital investment and locating more customers. It saves our estimable time and energy by providing everything online. Mass customization in online shopping is becoming another trend because of its ability to provide individually designed products and services to each customer. The existing application allows retailers to sell their products online and customers can select the product only from the catalog provided by the retailers. The paper describes the android application on online clothing store which uses the concept of mass customization by enabling the users to customize the apparel and place order. Inheriting the concept of mass customization in the paper will have a greater impact on development of production system.

Keywords: Online shopping, Android application, Mass Customization

I. INTRODUCTION

In today’s world, fashion plays a major role and people prefer online clothing stores over conventional shopping. It is very popular among people for its convenience, more varieties, no crowds and 24/7 availability. Internet activities have been shifted from using browsers to mobiles and everything made easy using mobility. Among many other platforms, Android platform is very popular and there are millions of users using it for its simplicity and other features. Customized apparel shopping is an android application where customers purchase clothes online and also it provides an advance feature of customizing their own apparel and ordering it online for manufacturing. The application incorporates basic designing tool which consists of predefined colors, patterns and prints using which customers can design their apparel. This will be useful to anyone who wants to purchase dresses of their unique choices and interest. The user needs to own an account to purchase clothes through the application. The user is first taken to login/signup screen followed by the screen which displays categories of products available. The products are displayed and the selected product can be added to the cart or the user can edit it with predefined templates available. The customization allows the user to edit the apparel on the basis of different colors, patterns and prints.

II. RELATED WORK

The authors B.G.V.Gautham, A.Arun, M.Hemanth Raj, D.Rajeswari of “Provisions Ordering Smartphone Application Using Android” (Volume 3,Issue 3, March 2015) describes the provision ordering application in android which saves customer’s estimable time by making complete procedure online compared to traditional online shopping. The paper describes the technologies used for providing android based ‘provisions online shopping’ for customers and the application starts with the splash screen displaying the name of the shop and logo. Next, the user is directed to login/signup page. If it is a registered user he needs to enter the credentials to login and it is validated. If not, the user needs to enter all his details to sign up and after successful completion of signup activity; the user is directed to the login activity. The list of items is displayed and the selected items are added to the cart. The user can remove if he later dislikes the item. Billing based on mobile payment and this allows user to save more time compared to queue based payment at stores. The application provides complete list of products and customer cannot miss any. It minimizes the customer’s load and error in making payment.

The paper [3] “Herbs Recognition Based on Android using OpenCV” describes the recognition of herbs based on android using Open CV. The paper describes an android application to recognize herbs based on the leaf characteristics such as shapes, veins and key points. The shape and veins of leaves are recognized by invariant moment method. It is used because it can give faster computation for smart phone device. Whereas for detection and key point extraction, a method called Oriented FAST and rotated BRIEF on Open CV library is used.
III. PROPOSED WORK

The scope of the project is to develop an online clothes shopping android application where the customer can apply designs on the apparel and make order.

A. Android:

Android is an open source platform developed by the open handset alliance which is led by google. It relies on linux for core system services and it provides a set of core libraries which supports most of the functionality in the core libraries of java. It allows components to be used by the developers.

B. SQLite:

SQLite is an embedded SQL database engine. It is the popular choice for storing the user information within the application and it is stored in the client side. It helps the developers in handling data in a simple way with the use of database features.

C. Development tool

Android studio and android SDK tools are used for designing and developing java based application. It includes the tools like debugger, libraries, emulator, tutorials, documentation and sample codes. Android applications are packaged file system with .apk file extension which holds the .dex and resource file etc.

A. Project functions

The major project functions include:

1) Customer Login
   a) Login/signup screen
   b) Home screen
      (1) Choose the product
      (2) Selected product is displayed.
      (3) Place order/edit option.
   c) Designing screen
   d) Customer’s details screen
   e) Order history

2) Admin login
   a) login screen
   b) add/edit/delete products

IV. ARCHITECTURE

Fig. 1: Architecture
The user needs to own an account to access the application. The new user can register and after successful registration the user logs in the application. The user can select the type of products and the selected type of products is displayed. The user can either add the default design to cart or go for edit option to customize the apparel. The user will be provided with basic designing template to design the apparel and after completing the design, it is added to cart, uploaded on the server for manufacture and the image of customized apparel is also saved in phone’s storage. After the payment, the order is placed successfully and the user is notified with the order details. On the admin side, the admin adds the product and also can edit or delete the products added in the database. Admin is also updated with the order details of the customers.

V. CONCLUSION

Thus it drives to the conclusion that implementing customization in online clothes shopping not only saves customer’s estimable time, also it will have a great impact on production system and it will be a competing strategies by many companies and the user will experience at most satisfaction by customizing the apparel on their own.

REFERENCES