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ARTICLES

Business Analysis and Product Innovation to Improve SMEs Business Performance

R A M Febrianti, A S N Herbert

1-10

[FULL PDF](#)

The Effect of Digital Technology and Agility On Company Performance with Management Accounting System as Mediation

W A Astuti, Y Augustine

11-29

[FULL PDF](#)

Implementation of Blockchain in Minimizing Tax Avoidance of Cryptocurrency Transaction in Indonesia

Siti Kurnia Rahayu

30-43

[FULL PDF](#)

Design of a Customizable Preview Feature on Clothing Website

Eddy Soeryanto Soegoto, Muhammad Ananta Hafidz, Rania Febiananda, Daniel Maruli

44-53

[FULL PDF](#)

Designing Information Systems for General Administration Management in Playgroups in North Cimahi District

M Fitriawati, R H Lestari

54-60

[FULL PDF](#)

ZionimeArt App: Designing Mobile Application as A Medium For Selling Anime T-shirts

Eddy Soeryanto Soegoto, Novia Aenu Rizqi, Iluh Sri Purwani, Zanjabil Zulkarnain

61-70

[FULL PDF](#)

The Effect of Using Applications to Facilitate Medicine Purchase Amid the Covid-19 Pandemic

Eddy Soeryanto Soegoto, Nadia Tahiyah Alifia, Tiara Salsabila, Cindy Nuke Mardika

71-81

[FULL PDF](#)

Consumer Behavior Analysis

Analyze customer segmentation, sentiment on product review, and a product recommendation system

Ghanasiyaa Sundareswaran, Harshini Kamaraj, Shanmathy Sanjay, Akalya Devi, Poojashree Elangovan, Kruthikkha P

82-90

[FULL PDF](#)

How do online shopping platforms shape compulsive buying? A case study of university student

Nita Luciana, R.A Febrianti

91-99

[FULL PDF](#)

Clean Living Culture through Online Learning Using Digital Media for Junior High School Students

Desi Arita Maryani Br. Sinaga, Asep Bayu Dani Nandiyanto

100-107

[FULL PDF](#)

Application of the Use of Digital Media in Learning Solar System in Elementary School

Dennis Surya Putra, Asep Bayu Dani Nandiyanto

108-113

[FULL PDF](#)

Literature of Waste Management (Sorting Of Organic And Inorganic Waste) Through Digital Media In Community

Indah Nur Chazanah, Asep Bayu Dani Nandiyanto

114-123

[FULL PDF](#)

Literature About Maintaining Physical Fitness Through Digital in Community

Zharfan M Salman, Asep Bayu Dani Nandiyanto

124-131

[FULL PDF](#)

Microcontroller Based Parking Lot Monitoring System Prototype

Heri Purwanto, Budi Prasetio

132-141

[FULL PDF](#)

Digitalization Through Creative Writing on social media

Eddy Soeryanto Soegoto, M Mulyanto, Sri Yuliawati, Adhea Vinora Putri

142-150

[FULL PDF](#)

E-learning Media for the Ability to Recognize and Count Numbers in Kindergarten Students

Fikri Andika Putra Mulyana, Asep Bayu Dani Nandiyanto, Tedi Kurniawan

151-157

[FULL PDF](#)

Application of Plant Fertilizer Serum Using Natural Ingredients

Erlangga Dwi Putra, Rafli Fadhilah Baehaki, Muhammad Rizki Ramdhani

158-162

[FULL PDF](#)

Digital Marketing Communication Strategy for Micro, Small and Medium Enterprises (MSMEs) in Business Competition

N R Rusdana, S J Choirani, A S Friska
163-168

[FULL PDF](#)

Application-Based CRM Relationship Implementation for Micro, Small and Medium Enterprises

B S Kusuma, I F Ramdhani, Z Azhara
169-173

[FULL PDF](#)

Know More Metaverse as The Technology of The Future

M F N Amirulloh, M Mulqi
174-177

[FULL PDF](#)

Social Media Affect on Contemporary Design for Architect and Client via Instagram Sites

Imam Baihaqi Kosasih, Muhammad Abdul Gahar Sangaras
178-187

[FULL PDF](#)

Utilization of Augmented Reality Technology as an Interactive Learning Media

Muhammad Iqbal Qatrunada, Muhammad Fadhlih Sephia Harasta, Ismail Tosofu
188-195

[FULL PDF](#)

The Application of Financial Recording Applications Towards Financial Report for Micro, Small and Medium Enterprises

Finna Afrilia Elmanda, Gusnerlisa Gita Merdikawati, Ratih Wahyuni
196-203

[FULL PDF](#)

Web-Based Student Extracurricular Value Monitoring Application

Richard Septiandi Karim, Aldi Hisyam Pratama, Wildan Ramdani A
204-209

[FULL PDF](#)

The Importance of Building Design and Its Contribution to Human Health

Alif Khusaini, Mohammad Arziz Raka Pradana, Dandi Kusmayandi
210-217

[FULL PDF](#)

Prefabricated House Development With Tetra Pak Carton Recycling Processing

Seftiyandi Kurniawan, Caesar Rai Finaldy, Gumiwang Tresnakalingga

218-225

[FULL PDF](#)

Podcast Media Credibility as a Means of Fulfilling Public Information

A Renisyifa, S Sunarti, A Pebriyanti

226-232

[FULL PDF](#)

The Influence of Facebook Advertising on Increasing Sales of Micro, Small, and Medium Enterprise Products in Bandung

A Rezma, R Elsa, A Zahrotun

233-239

[FULL PDF](#)

Marketing Innovation in the Digital Communication Era

Jihan Afifah Wahyu Aroyssi, Maulana Raihan Fathin, Yudis Ilmi Priabas

240-246

[FULL PDF](#)

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Design of a Customizable Preview Feature on Clothing Website

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Abstract. Clothing trends that always change over time, and the tight competition in the clothing business make producers have to rack their brains so that the business they run has additional points for consumers, ranging from changes in design, use of materials, colour selection to the promotion section. The purpose of this research is to create a custom clothing feature on the website that is useful for consumers who have a special desire for the clothes they want to buy. The research method used in this research is descriptive analysis with a quantitative approach. The results show that the addition of the Custom Clothing feature can provide better clothes ordering experience on a digital platform that can be accessed through each computer. The main concept of this feature is a choice of sizes and pieces of clothing that can be chosen without thinking about stock availability. In the end, this feature is here to help consumers who have a special desire for the clothes they want to buy, so that consumers who have special desires can have clothes from that brand without thinking about stock availability.

1. Introduction

Clothing is one of the primary human needs in addition to food and shelter. At first, clothing was only used to protect the human body from the scorching heat of the sun or the cold. But along with the development and civilization of human culture, clothing also aims to add aesthetics and can cover shortcomings, so clothing and accessories are needed [1-5]. Clothing trends that always change over time, and fierce competition in the clothing business make manufacturers have to rack their brains so that the business they run has additional points for consumers, starting from changes in design, use of materials, color selection to the marketing

department [6-10]. Today's marketing has adapted to the environment and consumers, marketing must get used to a time when consumers are the initial priority of business [11-15]. Now, consumers can receive data from various sources and have greater creativity, they have become standardization. In other words, customers pay for goods or services not only for functional needs, but also for identities that help show their identity [16-20]. Therefore, mass customization is an inevitable trend in the development of the clothing industry. Mass customization can efficiently solve the problem of large inventory in the traditional clothing industry. This participatory design requires technology to be able to reach everyone's wishes, businesses must adapt to the behavior of consumers who no longer want a finished product [3]. (Hart,1996). Four significant types of customizations allow customers to submit their requirements to the factory prior to production: (i) Adaptive customization: the company produces standard products [2]. He leaves the option to the customer to modify some of the product features to some extent. (ii) Collaborative customization: the manufacturer works closely with the customer to accept all possible requirements and creates the perfect product to answer the customer's needs. (iii) Cosmetic customization: this type of customization involves standard products and offering other products for different customer representations; (iv) Transparent customization: the company produces a unique item for its customer without notifying the customer that the item has been customized [4].

The purpose of this study is to help consumers who have special desires for the clothes they want to buy, so that consumers who have special desires can have clothes from that brand without thinking about stock availability.

2. Method

This study uses descriptive analytical research methods and by using a qualitative approach to convey the research design [21-25]. We use figma and adobe illustrator applications for system design with the prototype system development method. The prototype represents the product model to be built or simulates the structure, functionality and operation of the system [26-28]. Interactive communication from users is required to support this development method. Therefore, users can provide more input for this development method. In the development of systems that focus on the user interface, this method is very useful. Therefore, the communication relationship between developers and application users is very important to maintain so that application specifications are also good [29]. The prototyping system development method is shown in Figure 1.

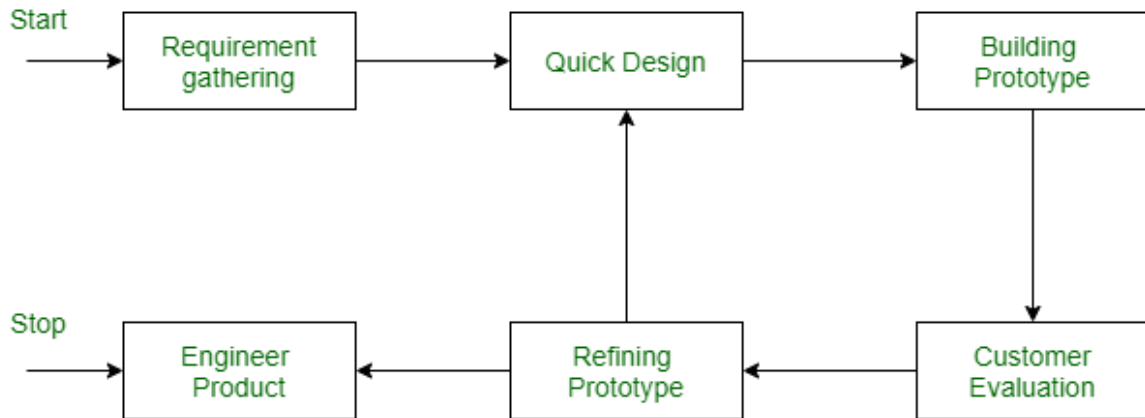


Figure - Prototype Model

Figure 1. System Development Life Cycle Prototype

Requirement's identification is carried out as the first step of the prototype system. User interviews conducted at this stage aim to obtain information about the things that will be entered into the system to be created. After the interview stage is carried out, a prototype design will be made by the developer as an initial design that will be used as discussion material for users to do better development. After the initial prototype has been successfully created, the user will review the prototype in order to provide criticism or suggestions on the design that has been made. After receiving criticism or suggestions about the prototype, the developer can improve its prototype until the prototype is finished [7-10].

3. Results and Discussion

3.1. Identifying Requirement

This custom clothing application is designed to meet customer needs that differ from what is offered with ready stock items. developers do simple research to find out and map what needs to be included as features in the application. This custom clothing application is equipped with features of custom sizes and colors for all shirts or pants, and also the addition of accessories such as pockets for several types of clothes and pants, so customers can freely choose what they want. The custom application menu structure is shown in Figure 2.

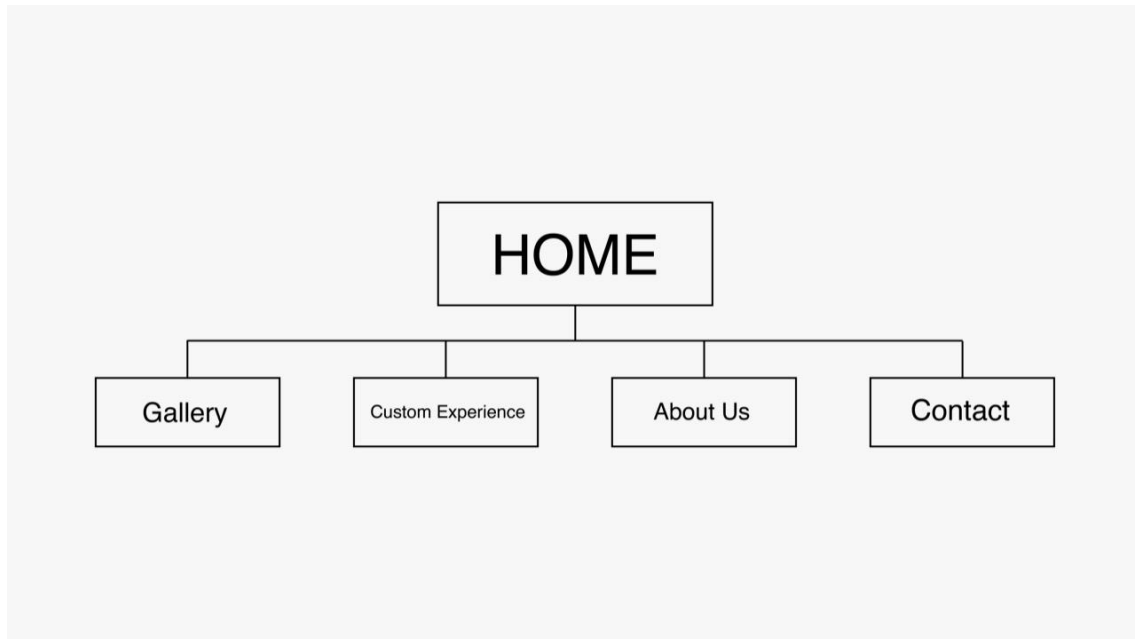


Figure 2. Custom Application Menu Structure

Figure 2 shows the design of the Custom Clothing Application menu structure. The Home menu which is the main menu contains the login feature and there is a navigation bar containing 4 sub menus, namely the about us menu, size guide, team, and contact us.

3.2. Developing the Initial Prototype

In the early stages of prototyping, the developer designs the front page of the Custom apparel application (see Figure 3) [11-15]. The Home screen contains the custome outfit Application logo, the application slogan and the login feature.

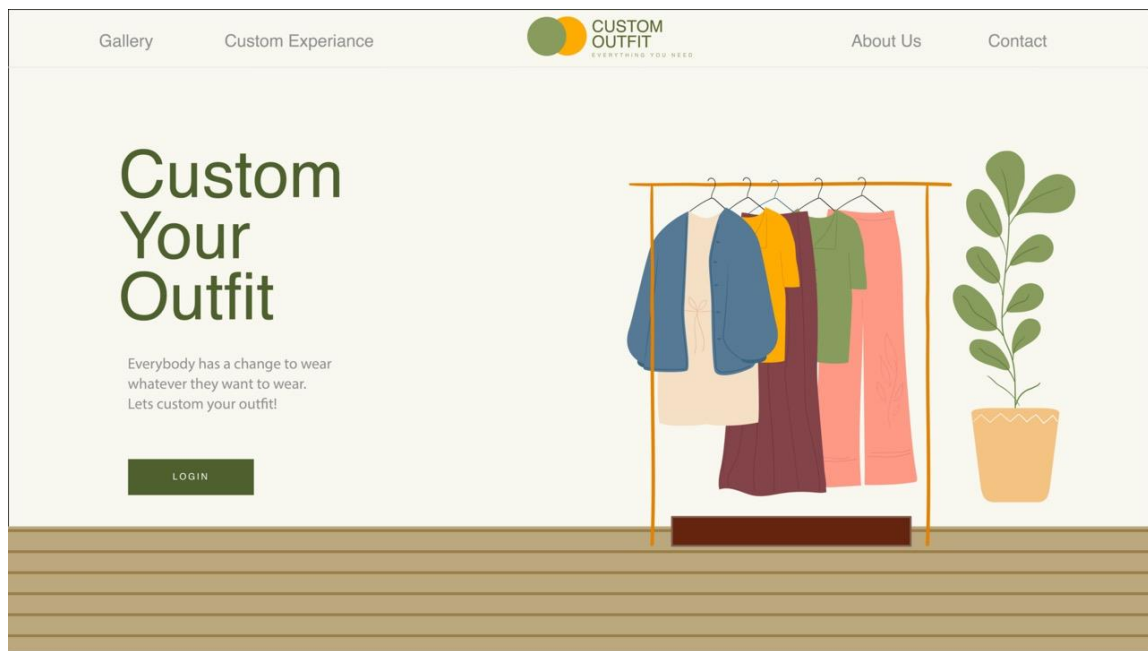


Figure 3. Welcome Page Custom Outfit Application

Figure 3 shows the start page of the Custom Outfit application. From the slogan, it can be seen that the name of this application's mission is to make it easier for consumers to wear what they want to wear. The main Custom Outfit Application page is shown in Figure 4.

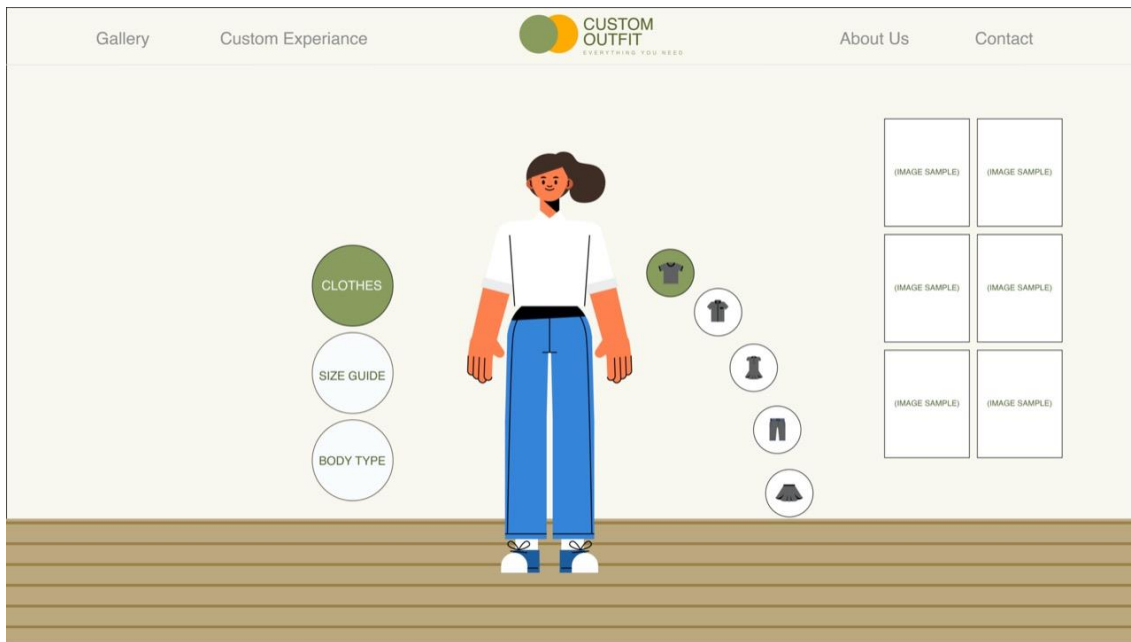


Figure 4. Home page Custom Outfit Application

On the main page, there are 3 options, namely the clothes section, size guide and body type, in the clothes section there is an option to choose the type of clothing, there are shirts, shirts, dresses, trousers and skirts. and on the right, there is a selection box to choose the type of accessories or the type of clothing cut.

3.3. Testing the Prototype

The explanation of the three menus above is shown in Figure 5.



Figure 5. Custom Guide Page

Figure 5 shows a custom clothing page. On this page, customers will be given the option to choose what type of clothing they want to customize, and on the right side there is a box whose function is to store photo assets, types of accessories that can be added for clothing customization, and there is also an option to view size guide and body type. to be a benchmark for customers when doing customization.

The Custom Outfit application prototype is designed to provide more flexible choices for consumers who want to be different or have special needs. This application provides a size guide, body type, and various types of clothing which of course can be customized regarding new cases in a certain area. This application is also designed because many people have to have to shop online because of the pandemic. the result of this research is an application prototype that does not exist in previous studies [31-32]. So that in the end the results of this research become the latest innovation for online clothing business actors so that they can be developed even better.

4. Conclusion

In the current business era, business is very growing, clothes where many boutiques appear or distribution. The custom outfit application is designed to be a model for today's outfit buying applications. In this application there is provides a size guide, body type, and various types of clothing which of course can be customized regarding new cases in a certain area.

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