



Sales and Inventory Applications on Davinci Acoustic Medan Based on Mobile Application

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ABSTRACT

The development of information technology at this time, bringing updates to everyone both in the means of communication and to buying and selling methods that are not left behind by their impact, the rapid development of information technology makes it easier for people to sell and buy goods online, both via the web and on mobile devices. now often referred to as Android. Android makes it very easy for people to sell and buy goods, because Android uses information technology, namely web and mobile-based applications that are connected to the internet network, so people no longer need to come to the store first to sell and buy goods. In this final project, it will discuss the design of a mobile application-based Davinci Acoustic Medan store sales and inventory application by facilitating customer registration, ordering information, payment confirmation and stock checking.

1. INTRODUCTION

Davinci Akustik Medan is a business engaged in the sale and purchase of musical instrument equipment, especially acoustic guitars. The musical instruments consist of various types, such as cajon, acoustic guitar and guitar accessories. Meanwhile, Davinci Akustik Medan serves guitar services that are problematic or damaged. In order to support the smooth running of the trading business, Davinci Akustik Medan needs an inventory such as an acoustic guitar. This

inventory will be resold in the future in order to help run business operations. Without any business inventory, it can be said that it cannot run optimally because it is a principal asset for the trading business.

Inventory that is too large (over stock) is a waste because it causes too high costs for storage and maintenance while in the store. Besides that, too large an inventory means a large amount of idle capital so that it cannot be replayed. Likewise, the lack of inventory will interfere with the smooth sales process

so that the delivery time as determined by the customer is not met, making the customer turn to another place. The many types of inventory make it difficult for employees to find where it is located and the number of items available for sale. Inventory recording carried out by Davinci Akustik Medan is still very simple, namely by recording it in the inventory book. This is the main cause of the difficulty in knowing the number of items available in the store, so that there is a buildup of unsold goods but still adding goods. To find out the number of items, store employees must calculate it first. This is the cause of inaccurate, effective, and efficient work due to frequent miscalculations.

Therefore, we need an application that can improve the performance of Davinci Acoustic Medan in order to provide maximum results and increase work efficiency and effectiveness. A good inventory application will greatly assist management in determining decisions or policies that will later affect the course of the stock process. The application is expected to be able to answer the above problems, namely, by producing information on the number of goods available for sale so that there is no need to perform physical calculations.

1.1. Literature Review

A. Application

In his research, in terms of understanding the application is a ready-to-use program that is made to carry out a function for application service users and the use of other applications that can be used by a target to be addressed. According to the executive computer dictionary, application has the meaning of problem solving that uses one of the application data processing techniques which usually races on a desired or expected computing or expected data processing. Meanwhile, mobile Application is software that runs on mobile devices such as smartphones [8] or PCs (Personal Computers). Mobile Applications are also

known as applications that can be downloaded and have certain functions that add to the functionality of the mobile device itself. To get the desired mobile application, the user can download it through certain sites according to the operating system they have. Google Play and iTunes are some examples of sites that provide various applications for Android users to download the desired application.

B. Sales

A sale is a process in which the salesperson satisfies all the needs and desires of the buyer in order to achieve sustainable and profitable benefits for both the seller and the buyer. Sales are also the results achieved in return for services carried out by the business world. Sales is part of marketing activities that have a broad meaning that includes various company functions, marketing is the overall system of business activities aimed at planning, determining prices, promoting to be marketed.

C. Mobile Application

Mobile Application is software that runs on mobile devices such as smartphones or PCs (Personal Computer). Mobile Applications are also known as applications that can be downloaded and have certain functions that add to the functionality of the mobile device itself. To get the desired mobile application, the user can download it through certain sites according to the operating system they have. Google Play and iTunes are some examples of sites that provide various applications for Android users to download the desired application.

2. METHODS

2.1 Application Design

Designing this application the author will design an application that will be built on the Sales and Inventory Application at the Davinci Acoustic Store Medan. The design that will be made as an illustration in building the application includes diagram context dan waterfall model [7][10].

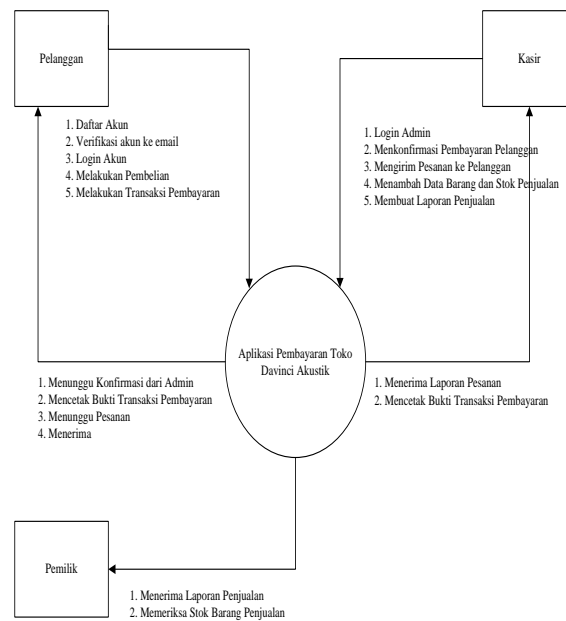


Figure 1. Context Diagram

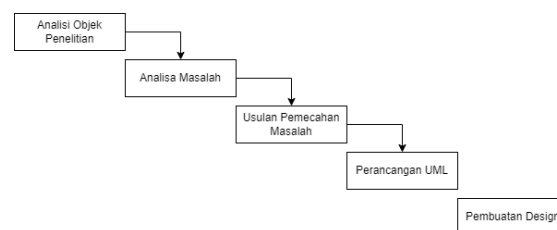


Figure 2. Waterfall model

3. RESULTS AND DISCUSSION

The following is a display of the results and discussion of each Sales and Inventory Application form at the Davinci Acoustic Store Medan based on the Mobile Application.

3.1 Some pages

The registration page display is an account registration to enter the login page. This display contains a page that includes your name, address, email, mobile number, username and password so you can access the login page and verify your account from e-mail so you can access the account. The following registration page can be seen in Figure 3

The login page display is a page to access the account before registering me and verifying the account and being able to access the account. This display contains a page equipped with a username and password where only application users who know the username and password can access this page. The following login page can be seen in Figure 4. The homepage view is the display that will appear after the user logs in using the username and password into the application. The home view is a view that displays products, best-selling products and about guitars. Home display can be seen in Figure 5 and Figure 6 shows the transaction page.

The registration form is titled "DAFTAR AKUN" and is located on a brown header bar. It contains the following fields: "Nama" (Name), "Alamat" (Address), "Tulis Loh Alamat Lengkap Mungkin" (Write the full address if possible), "No HP" (Phone Number), "Email", "Email Opsi lain untuk Verifikasi Akun" (Alternative email for account verification), and "Password". A "DAFTAR AKUN" button is at the bottom right. The footer says "Powered by 000webhost".

Figure 3. Registration

The login form is titled "Login" and is located on a brown header bar. It contains the following fields: "Email" (with a sub-label "Enter Email") and "Password" (with a sub-label "Enter Password"). There are three buttons: "Login" (grey), "Daftar" (green), and "Close" (red). The footer says "Powered by 000webhost".

Figure 4. Login

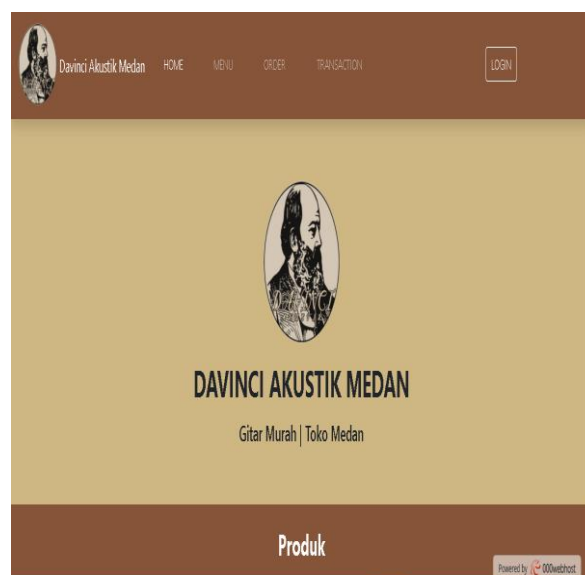


Figure 5. Homepage

No Order: #2	No Order: #3	No Order: #4	No Order: #7
Menu Qty	Menu Qty	Menu Qty	Menu Qty
Delta DD-300CE 1	Delta DA-300CE 1	Delta DD-300CE 1	Mixer Yamaha MS120U 1
Nama: Rio Tobing	Nama: Rio Tobing	Total Harga Rp2.042.004	Nama: Rio Tobing
Alamat: Jl. Taduan	Alamat: Jl. Taduan	<input checked="" type="checkbox"/> Menunggu Pengiriman	Alamat: Jl. Taduan
No Hp: 081242551086	No Hp: 081242551086		No Hp: 081242551086
Total Harga Rp2.042.002	Total Harga Rp2.042.003		Total Harga Rp4.250.007
Tanggal Dikirim 2021-11-17 12:13:59	Tanggal Dikirim 2021-11-17 19:18:21		Tanggal Dikirim 2021-11-18 04:48:16
Tanggal Arrival 2021-11-17 12:14:56	Tanggal Arrival 2021-11-17 19:19:38		Tanggal Arrival 2021-11-22 14:14:14

Figure 6. Transaction

4. CONCLUSION

The conclusion is based on the results of research and discussion of the Mobile-Based Davinci Acoustic Medan Sales and Inventory Application, as it can be concluded that is:

1. This application can facilitate transactions for selling musical instruments at the Davinci Store.
2. The application is designed to print sales reports every time you make a transaction.

3. Can help the cashier see the stock or inventory of goods that have been sold or not.
4. With a better sales and inventory application, the store, especially the cashier, is able to do the job faster, efficient, and effective.

5. ACKNOWLEDGMENT

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6. REFERENCES

- [1] A. Alif, "Intelligent Computing For Beginners. Malang." ABC Press. 2013
- [2] M. Berndtsson, at el, "Thesis Projects: A Guide for Students in Computer Science and Information Systems." 2nd ed. London: Springer-Verlag London limited. 2008.
- [3] Alawiah, E. T. "Rancangan Aplikasi Smart City Berbasis Mobile Untuk Meningkatkan Kualitas Layanan Publik." JURNAL, 25. 2017
- [4] Raharjo, B. "Modul Pemograman Web." Bandung: Modula. 2018
- [5] Wedyawati, Veni, dkk. "Perancangan Aplikasi Pengarsipan Surat Program Studi Sistem Informasi Pada Sekolah Tinggi Teknologi Industri Padang Menggunakan VB NET 2010". Jurnal Sains dan Teknologi Vol. 18 No. 1. 2018.
- [6] R. I. E. Saragih and O. Simatupang, "Regression Genetic Algorithm (RGA) Based Approach For Optimizing Bank Deposit", IEEE publisher., 2019.
- [7] L Jeffry. at el. "System Analysis and Design Methods". 5th edition, McGraw-Hill. 2004
- [8] R. I. E. Saragih and Rhamadani. "Context Mobile Application (CMA) for Increasing the Service of Koperasi in Indonesia" JTKSI. 2022.
- [9] Valacich, S. Joseph, F. G. Joey. "Modern Systems Analysis and Design. Ney Jersey: Pearson Education." 2017.
- [10] G. B. Shelly, and H. J. Rosenblatt. "Systems Analysis and Design. Boston: Nelson Education." 2014