

# The Web-based Raharja Internet Cafe (RIC) Ordering System



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## Abstract

*The buying and selling process is very often found in everyday life, starting from traders who sell merchandise to buyers who buy the goods. At Raharja University there is a facility called Raharja Internet Cafe (RIC) which provides services in the form of print, scan and volume documents for students. Not only that, there are also items of student supplies provided there, such as the installation of an iPad that has just been obtained, iPad accessories can also be purchased there. But the problem faced at this time is the process of ordering goods that you want to buy is still conventional, namely students must come to the RIC and order the needs that they need such as print or scan and others not only that students have to queue when they want to order their needs. This was felt to be inefficient because of the technology that has been widely applied at Raharja University. To overcome this, a product ordering system was made at Raharja Internet Cafe (RIC). The method used in this study is observation and literature study to collect data and flowcharts in designing the system. With the implementation of the ordering system on the RIC website, students are now expected not to bother queuing to order their needs because ordering goods can already be done online by students, so the buying and selling process can be more practical and more efficient of course.*

**Keywords:** Ordering, Sales, Purchasing, Goods

## 1. Introduction

The buying and selling process has never been separated from life, because it has become a necessity for every human being. The buying and selling process consists of traders who sell their merchandise and there are also buyers who buy goods sold. According to Natalia, quoted from his journal, sales are a direct inducement that offers incentives or more value for a product to consumers. Whereas the purchase quoted from the journal written by Dwiki is a consumer decision about what is to be purchased, where it will be done, when it will be done and how the purchase will be made. The process is often encountered all the time, even in an educational institution.

In an educational institution there can also be a buying and selling process due to the service provider needs of students. At Raharja University there is a facility called Raharja Internet Cafe, which is a place for service providers such as print, looking for lecture material, scans and other student needs. For raharja colleges that apply the iLearning learning method and there are facilities in the form of iPad given to students. To complete the needs of the iPad can be found at Raharja Internet Cafe.

But what happens when ordering goods that are needed by students is still conventional, students have to queue to get the needs they want. By queuing the process

becomes less effective and certainly not conducive. This is certainly a problem that must be solved for an educational institution to provide comfort to its students. Moreover Raharja University, which is engaged in technology, these problems should be easy to solve. Ordering is a process carried out by consumers to get something they want so that they are not obtained by others. From these problems, a website was created to overcome them.

## 2. Research Method

### 2.1 Literature Riview

Researchers use library research methods to look for research that has been carried out to perfect this ordering system. Some of the literature reviews include the following:

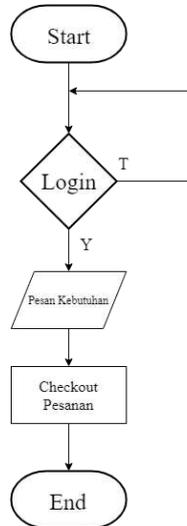
1. The research conducted by Sudaryono, Untung Rahardja, and Desy Apriani in 2019 with the title "The CICES Journal Governance Performance Improvement on Quality of Current Issues (Case Study of STMIK RAHARJA)" This study discusses the problem that occurs is the absence of an online journal google scholar indexed, and there was no information summary to make a decision and the difficulty of the prospective writer getting information about the CICES journal.
2. The research entitled "The Effect of Mailing Groups as Discussion Media in Student Learning Motivation" conducted by Qurotul Aini, Untung Rahardja, Ruli Supriyati, dan Alfiah Khoirunisa (2019). Discussing The combination of these two factors will become a new innovation in the management of education. At Raharja College, the entire academic community has a facility in the form of an official e-mail, Rinfo, which functions as a communication medium. Therefore, it is necessary to optimize the use of RinfoApps which is used as a discussion medium for online learning.
3. The research conducted in 2019 with the title "Implementation of Yii Framework-Based Viewboard Validation Status at STATUS + in Higher Education" was conducted by Untung Rahardja et al. Viewboard is an application system that can monitor or display information in graphical form, making it easier for users to control and set goals to be achieved.
4. The research was conducted by Qurotul Aini (2019) with the title "Effectiveness of Installment Payment Management Using Recurring Scheduling to Cashier Performance". This study discusses to Implementation of this system is due to the existence of good management in college to solve the problem. This recurring scheduling feature in the cloud-based accounting system is a new breakthrough that is useful for paying for lectures that use the installment payment system.
5. The study entitled "Monitoring the Performance of User Accountants Using Dashboards on Web Based Accounting Online at Universities" conducted by Untung Rahardja, Qurotul Aini, and Alfiah Khoirunisa in 2019. This study discusses that Presentation of information in the form of graphs on PenA (Attendance Assessment) will present information in the form of Nim (Student Registration Number), supervisor, and guidance time. Information on the guidance time in the graph can be used as a comparison to measure the level of student activity in following the guidance.

From a number of studies on the ordering system above, the authors conclude that the ordering system is needed to make buying and selling activities more efficient and effective. And the purpose of this research is to make the process of ordering goods easier and not difficult for students.

### 2.2 Method

In this study the author uses several research methods to solve the problems faced and also achieve the stated goals. There are several research methods used in this study, namely observation and literature. To design an item ordering system the author uses a Flowchart.

The author observes Raharja University to see how to order goods at Raharja Internet Cafe. After observing it turns out that it is true that it still uses conventional methods and students have to queue long to order their needs. To design an ordering system so that conventional methods can be replaced and become more efficient.



**Figure 1. Flowchart Diagram**

Figure 1 is a system design diagram for ordering goods at Raharja Internet Cafe. The researcher designed the system so that the process of ordering goods became more efficient and made students not queue back.

### 3. Findings

#### 3.1. Problem

Along with the development of increasingly rapid technology, making all activities nowadays cannot be separated from technology. Likewise, Raharja University is based on technology in every activity. But in the service of students still using conventional methods, one of which is at Raharja Internet Cafe. Raharja Internet Cafe is a service that provides student needs including print, scan and volumes of various documents for campus purposes. Lots of students take advantage of these services. Moreover, not only the services provided, there are several other services, namely selling various campus equipment such as accessories and iPad installations which are learning facilities at Raharja University. Complementary learning processes such as books and to search for lecture material are also there. But as a service provider needed, students still use the conventional method, namely students must come first and then mention what they need, the Raharja Internet Cafe guards provide it. This is certainly still very ineffective, making students have to queue to get the needs they want.

#### 3.2 Research

From the problems raised, a problem solving emerged as the solution. Now there is a product ordering system to meet the needs of Website-based students. Students only need to access [ric.raharja.info](http://ric.raharja.info) to find the needs they are looking for.



Figure 2. Initial View of the RIC website

The picture above is the initial display on the RIC website on this page students can login SSO using the rinfo email they have of course. If students cannot log in, they can register first. the use of the SSO login method is a form of utilization of facilities provided by Raharja University namely personal email. Not only that, by using a personal e-mail provided by the RIC guards campus, you can also see who ordered the items because they will enter the RIC e-mail.

After students log in, the next page is a display of the goods catalog provided by Raharja Internet Cafe.

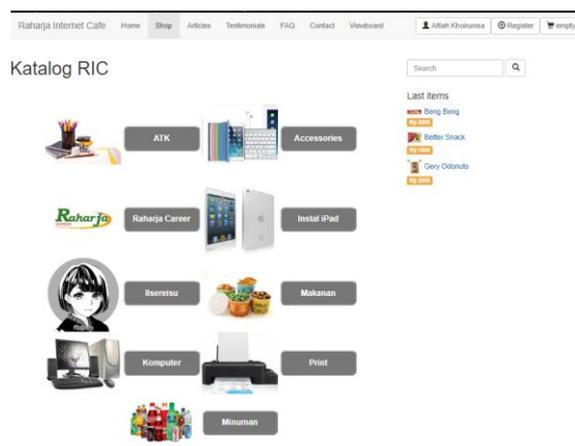


Figure 3. Display of the RIC Catalog

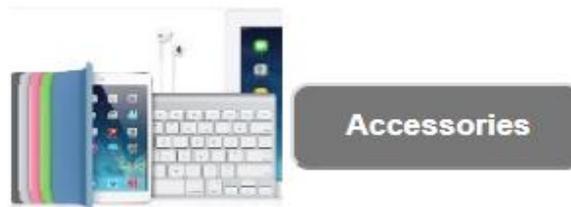
The picture above is a display of the RIC catalog, which are the needs of students provided at Raharja Internet Cafe. There are 9 catalog menus provided including:

1. ATK



Figure 4. ATK menu

## 2. Accessories



## 3. Raharja Career



Figure 6. Raharja Career Menu

## 4. Install iPad



Figure 7. Install iPad menu

## 5. Ilseraisu



Figure 8. Ilseraisu Menu

## 6. Food



Figure 9. Food Menu

7. Computer



Figure 10. Computer menu

8. Print



Gambar 11. Menu Print

9. Drinks



Figure 12. Drink menu

Students can choose what needs they need by clicking the button next to the catalog logo.

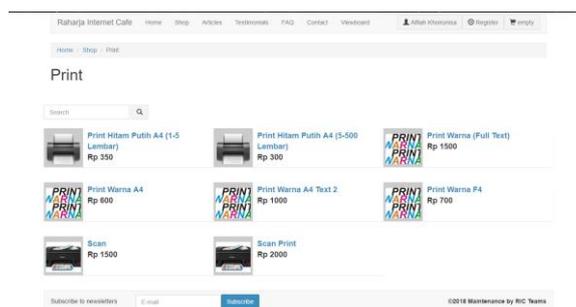
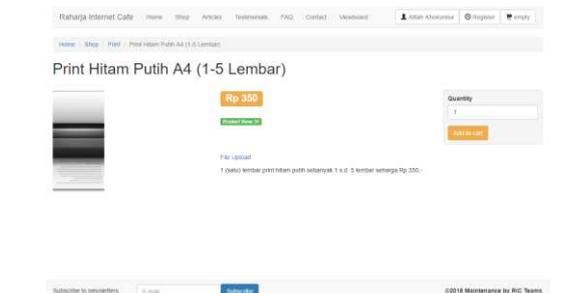


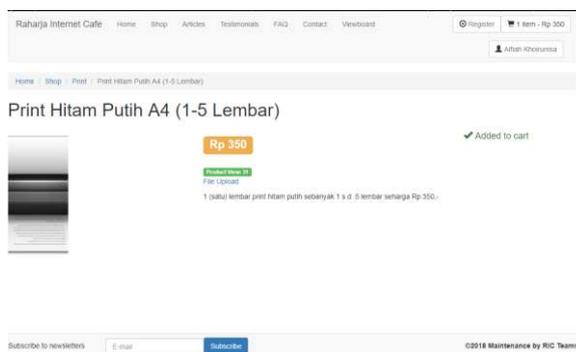
Figure 13. Display after the catalog menu

The picture above is a display after the catalog menu, students can choose the items or needs they want by clicking one of the options above.



**Figure 14. Display of Ordering Goods**

The picture above is a display of ordering goods or student needs. Students can enter their quantity of needs in the input column. After entering the quantity, you can click the add to cart below, so the display will look like this :



**Gambar 15. Tampilan Pesanan Diterima**

After that, the picture above is the display of orders received, students just click check out order to be processed further and go straight to the Internet Cafe Raharja to pay and take their orders. The ease with which the process is carried out with the appearance of a user-friendly system makes students not need to be tired of queuing to get the necessary needs.

#### 4. Conclusion

Based on the research that has been done there are several conclusions that the author can take. With the ordering system of web-based student needs, students make it easier for students to order goods for their needs. Students also do not need to be tired of queuing to get the desired item because of the easy ordering process. The user friendly display also helps students in finding their needs without having to ask the RIC admin. The ordering process can be more effective and efficient after using a system for ordering goods.

The author realizes that a system is certainly not perfect, there are still some shortcomings in it. Especially this system can be developed again by adding a payment method that still uses ordinary money and cannot be paid by e-payment. The author hopes that further research can improve the shortcomings found in this system and improve it so that it can be used more optimally by Raharja University students.

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