



Creation of Appsheet-Based Vendor Database System at Savoy Homann Hotel Purchasing Division

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ABSTRACT

The tourism industry in Indonesia is experiencing rapid development. One of these industries is hospitality as a place for tourists to stay. In carrying out its operations, the hotel depends on vendors to meet the needs of goods and services. Therefore, the vendor selection stage needs to be done properly. An improper selection process can result in a mismatch between the goods received and the needs of the hotel. Based on these problems, this project was created with the aim of building an Appsheet-based vendor database system that contains complete information about vendor data and quality to support a better decision-making process. This project began with a needs analysis through interviews with Savoy Homann Hotel Purchasing. In addition, a literature study was conducted as a reference for designing solutions. Next, the system was developed and tested using the Blackbox Testing method and interviews. As a result, the system successfully fulfills all the company's needs, ranging from vendor data, product quality, to performance ratings. The test shows that the features run well and according to plan. In conclusion, this vendor database system effectively helps the Purchasing division in managing the procurement of goods and services more efficiently, structurally, and optimally.

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1. Introduction

The tourism sector in Indonesia has experienced quite rapid development in recent years. This is evidenced by Indonesia's score in the Travel and Tourism Development Index (TTDI), published by the World Economic Forum in 2024 showing that Indonesia managed to rank 22nd out of 119 countries. In the tourism sector, there are several supporting components to support this growth, including accommodation such as hotels, transportation systems, dining or culinary venues, entertainment venues and culture [1]. One important element in accommodation is the hotel, which is a type of lodging that offers rooms for overnight stays and offers various other facilities needed for guests [2].

Based on data from the Bandung City Statistics Agency (BPS), the number of tourist visits to Bandung reached 3,741,680 people, consisting of domestic and foreign tourists. This is because Bandung offers various attractions for tourists. One of the historical places in Bandung is the Savoy Homann Hotel, which was founded in 1880 by A. Homann on Jalan Asia Afrika No.112, Cikawao, Kec. Lengkong, Bandung

City, West Java. This hotel is a witness to the history of Bandung because it became a stopover for state delegates during the Asian-African Conference in 1955 [3].

In supporting its operations, Savoy Homann Hotel requires a system to facilitate the movement of information, material, or energy to achieve a certain goal [4], where the system has specific characteristics that include components, boundaries, and connectors [5]. One of the important parts in the hotel operational system is the Purchasing Division, which plays a role in handling product procurement and ordering [6] and managing the process of purchasing the necessary goods or raw materials [7]. In addition, this division is tasked with finding and evaluating vendors, conducting negotiations, and overseeing supplier compliance with agreements [8]. A vendor is a person or organization responsible for supplying and supporting a business in its operations [9] or a company that sells raw materials to make finished goods or services [10]. However, based on current conditions, the Purchasing Division of Savoy Homann Hotel in selecting vendors often only considers the lowest vendor bid price without considering other factors. This results in some of the goods received not being as expected, thus having an impact on hotel operations. In choosing vendors, companies should pay attention to other important factors because there are still many suppliers who still do not meet the required standards, such as responsiveness, flexibility, price, quality, and delivery [11]. For this reason, a comprehensive approach is needed that covers all aspects, one of which is by applying the Vendor Performance Indicator (VPI), namely quality, cost, delivery, flexibility, responsiveness [12].

One of the causes of the above problems is the absence of an information system that stores vendor data in a structured manner. Currently, vendor records made by the Purchasing Division of Savoy Homann Hotel only include vendor names and addresses, without other important information. Therefore, a database-based information system is needed using Appsheet application that can store vendor data in a structured manner. The implementation of a database system allows companies to manage and organize effectively [13], because the database has a function to group data by creating many tables or columns so as to facilitate data identification [14]. By definition, a database is a set of data that has been organized with certain rules or guidelines that are interconnected to facilitate users and search for information [15] or information that combines and provides a group of information for various organizational purposes [16]. Some types of databases that can be used include Operational Database, Relational Database, and External Database.

Appsheet is an application that can help in creating a vendor database system. Appsheet can help anyone with no coding experience still create web and mobile applications [17]. Data sources used to create Appsheet apps include Google Sheets, Excel, CloPT SQL, Salesforce, and other comparable connectors [18]. The app can be accessed through various devices, such as computers, tablets, and smartphones [19], allowing users to quickly obtain data through any available device. The main benefit of Appsheet is its ability to act as a tool in the creation of applications [20].

From the problems experienced by the Purchasing Division, the authors took the title "Creation of an Appsheet-Based Vendor Database System in the Purchasing Division of Savoy Homann Hotel" for a more effective solution for the procurement of goods and services. therefore the purpose of this study is to create a system that serves to improve the efficiency of vendor selection by creating a vendor database for the Purchasing Division of Savoy Homann Hotel and then assessing the results of using the vendor database system in the Purchasing Division of Savoy Homann Hotel.

2. Research Method

In the development of software or information systems, one of the SDLC models that is often used is the Waterfall method. This method is sequential and systematic [21]. Here is the application of the Waterfall method:

- 1) Analysis

At this stage, observation and analysis are carried out to find out the problems that exist in the goods and services procurement system. The information obtained will be used as a development feature that will be in the system.

- 2) Design

After observing and analyzing the system requirements, the next step is to design the system using Data Flow Diagram (DFD) and Entity Relationship Diagram (ERD). In designing the database application, the platform used is AppSheet.

- 3) Implementation

At this stage, after various designs have been made and are ready to be implemented, the system development process begins with the basic creation of a database system using Google Sheets. Then,

the data will be processed and integrated with AppSheet to produce visuals that will be displayed to users.

4) Testing

After the database system has been created, a testing and checking process is carried out by the Purchasing Supervisor to ensure the system runs according to the predetermined needs and specifications.

5) Evaluation

After the testing process is complete, the results of the system development will be evaluated based on the feedback received. The project is then handed back to the Purchasing Supervisor to ensure it meets the needs. If the system has met the criteria set, then this database system can be implemented and used by the company as part of the operational process that supports business activities.

The method used to assess the success of this project involves two approaches, namely Blackbox Testing for application testing and interviews based on the Technology Acceptance Model (TAM) to assess user acceptance of the system. TAM is a method used to analyze the extent to which users accept and use technology [22] with two main factors influencing acceptance, namely perceived usefulness and perceived ease of use [23]. To support the application of TAM, interviews were conducted with Purchasing to obtain more accurate data and avoid misunderstandings between interviewers and respondents [24]. Meanwhile, the Blackbox Testing method is used to test the functionality of the application without requiring an understanding of the programming language used. The advantage of this method is its ability to identify discrepancies or ambiguities in system requirement specifications [25].

Testing with the Blackbox Testing method is done by compiling test cases that test each input based on predetermined functions. The first step in this test is to create a table that describes the flow of the system, so that each process in the system can be tested clearly. Then, test scenarios are compiled which include tests, desired results, test results and conclusions. During testing, each scenario is tested by entering data according to predetermined categories. Then, the results obtained are compared with the expected results to assess whether the system functions as it should.

3. Result and Discussion

3.1 project result

The results of this project were obtained after a series of needs analysis conducted in the Purchasing Division. Based on the results of the analysis, an Appsheet-based vendor database was created. This creation is an effort to overcome problems in managing vendor data that was previously unstructured due to the absence of an adequate information system and aims to improve efficiency in managing information. The features available in this application are as follows:

1) Menu Login

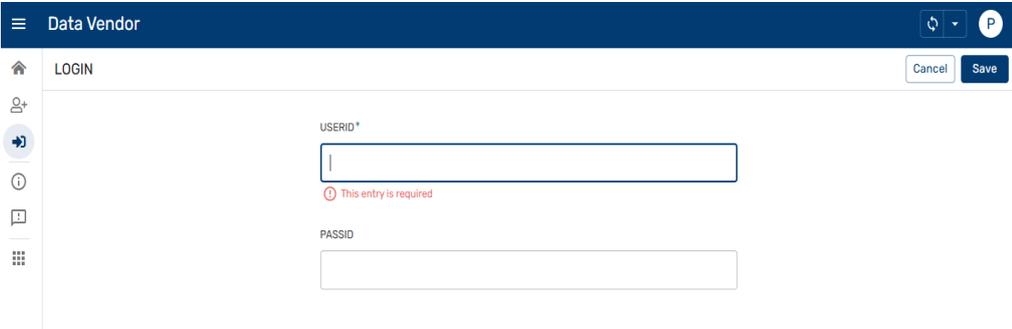


Figure 1. Login Menu

In Figure 1 is a view of the login page that serves as the main access to the vendor database system. On this page there are two input fields that must be filled in by the user, namely USERID and PASSID. The button in the upper right corner, namely the Save button used to process login information, and the Cancel button to cancel the process.

2) Dashboard menu

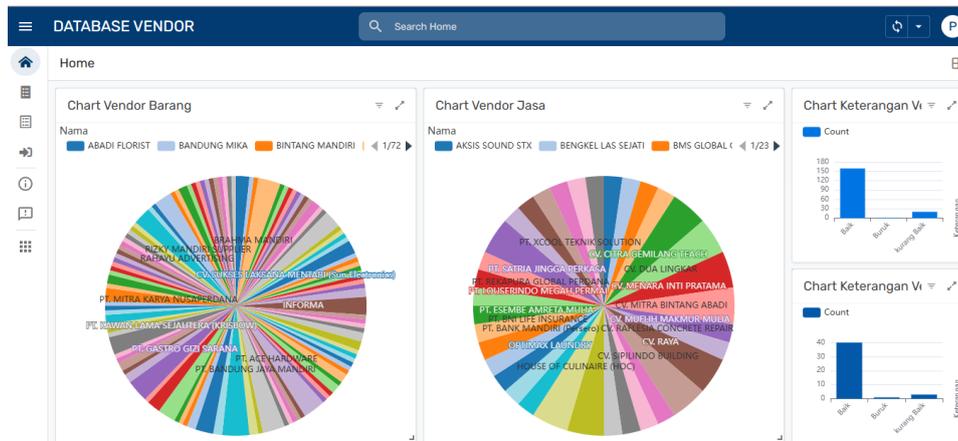


Figure 2. Dashboard Menu

Figure 2 is a dashboard view of the vendor database created to group vendor data into two categories, namely goods vendors and service vendors. This dashboard uses two types of visual charts, namely pie charts and bar charts. In the pie chart section, each slice on this diagram represents one vendor name that has been used. The size of each slice reflects the intensity of use of that vendor. The larger the size of the slice, the more often the vendor is used in the procurement process. Meanwhile, the bar chart section located on the right side of the dashboard presents information related to the vendor quality assessment, ranging from good quality vendors, less good, to vendors that are considered poor. This assessment is based on an evaluation of the vendor's performance during the cooperation period.

3) Goods and Services Vendor Data Menu

Nama	Alamat	Narahubung	Kontak	Jenis Barang	Nama Barang	Harga	Quality	Cost	Delive
PT. CAHYA L.E.	Jl. Sunda No.34	Fenny Cahya Per...	08122438505	Electronic	AC Daikin 2 Pk	6.500.000	10	9	10
PT. CAHYA L.E.	Jl. Sunda No.34	Fenny Cahya Per...	08122438505	Electronic	AC Daikin 2,5 PK	13.700.000	10	9	10
INFORMA	Jl. Ahmad Yani N...	Jasmin	085759279161	Furniture	Meja dan Kursi Set	2.928.000	9	10	9
CV. MAKMUR	Jl. Ibrahim Adjie	Rilla Rahayu	081222700051	Electronic	Komputer HP All in ...	8.328.330	9	10	9
PT. ACE HAR...	Jl. Kepatihan No...	Rizky	0895371934077	Kitchen	Insect Killer 3x20	649.900	10	8	10
CV. MAKMUR	Jl. Ibrahim Adjie	Rilla Rahayu	081222700051	Electronic	Keyboard Wireless ...	175.000	8	8	9
PT. TASKIPRI...	Jl. Bukit Gading ...	Stanley Wijaya	0214513972	Operational	Wet & Dry Vacuum ...	13.236.750	7	8	9
CV. MAKMUR	Jl. Ibrahim Adjie	Rilla Rahayu	081222700051	Electronic	Voice Recorder So...	1.400.000	10	7	9
PT. BIZMEDIA	Jl. A. Yani No. 22...	Chandra Hartanto...	081220246456	Electronic	Mesin Scanner	8.991.000	10	9	9
PT. INFOTEK	Jl. Gading Kirana	Harli	0811099599	Operational	Scanner ID	47.730.000	9	10	9
PT. EFATA CA...	Jl. Indrawarman	Yohan Andreas Fe...	082251483897	Furniture	IBM Table	2.325.000	8	9	6
PT. GASTRO G...	Jl. Sukajadi No.2...	Andreas Ferry Har...	0222040041	Kitchen	Food Processors	32.200.000	7	9	7

Figure 3. Goods and Services Vendor Data Menu

Figure 3 shows the goods and services vendor data menu page which contains a collection of information about the list of vendors used in the procurement process. Although the databases for goods vendors and services vendors are presented separately, they share a similar information structure. The information displayed includes important elements such as vendor name, address, contact person, contact, item type and name, price, as well as various evaluation parameters, ratings, vendor description, and reviews. The green indicator symbol in the first column indicates that the vendor is performing well, the yellow indicator symbol indicates that the vendor is performing poorly, and the red indicator symbol indicates that the vendor is performing poorly.

4) Item Vendor Data Submenu

Nama	Alamat	Narahubung	Kontak	Jenis Barang	Nama Barang	Harga
INFORMA	Jl. Ahmad Yani No.296, Plaza L.	Jasmin	085759279161	Furniture	Meja dan Kursi Set	2.928,0
PT. EFATA CAHAYA GRATIA	Jl. Indrawarman 11, Cibaduyut	Yohan Andreas Febrin	082251483897	Furniture	IBM Table	2.325,0
INFORMA	Jl. Ahmad Yani No. 296, Plaza L.	Jasmin	085759279161	Furniture	Lemari Loker	3.368,1
PT. ROMANCE BEDDING & ...	Jl. Wolter Monginsidi No.99B...	Victor	081325871067	Furniture	Extrabed Folding	4.100,0
PT. CEMERLANG ABADI MUJ...	Jl. Pasirkaliki 140, Bandung	Bayu	081129139	Furniture	Mattress Lady Americans 200 ...	2.886,0
PT. CEMERLANG ABADI MUJ...	Jl. Pasirkaliki 140, Bandung	Bayu	081129139	Furniture	Divan Lady Americans 200 x 1...	1.770,0
PT. ACE HARDWARE	Jl. Kepathian No.17, Balongged...	Rizky	0895379934077	Furniture	Safe Deposit Box	3.499,0
INFORMA	Jl. Ahmad Yani No. 296, Plaza L.	Jasmin	085759279161	Furniture	Lemari Arsip	3.199,0
INFORMA	Jl. Ahmad Yani No.296, Plaza L.	Jasmin	085759279161	Furniture	Lemari Kantor Swing Half Door	2.399,0

Figure 4. Item Vendor Data Submenu

Figure 4 is one of the submenus of the goods vendor data, namely the furniture submenu. This page presents a list of vendors that provide various types of furniture items, such as tables, cabinets, shelves, and the like. There are eight main submenus in the vendor data that are classified based on the type of goods, namely furniture, electronic, kitchen, operational, k3, amenities, food and beverage, and other. On the left side of the system page, there are navigation icons that represent each category.

5) Service Vendor Data Submenu

Nama	Alamat	Narahubung	Kontak	Jenis Jasa	Nama Jasa	Harg
CV. RAYA	Komplek Bojong Matak Indah ...	Supriyanto	08122073283	Construction	Perbaikan Lantai Kolam Renang	52,7
CV. MUFLIH MAKHUR MULLA	Jl. Mars VIII No.3, Bandung	Rudiharto	081129805746	Construction	Penggantian Meter Air Sumur ...	5,80
CV. MENARA INTI PRATAMA	Pondok Ungu Permal Sektor 5 ...	Rusmardera	082129103347	Construction	Recoating Bathrub	8,25
CV. SOFTCODE DIGITAL IND...	Sesko Aji Replita 4 No. 100, Ba...	Rochmat Ginanjar	081382910284	Construction	Pekejaan Infrastruktur Jaring...	1,00
PT. LOUSERINDO MEGAH P...	Jl. A. Yani Plaza No.296 Blok D...	Arief Hafidh	0227238513	Construction	Penggantian Sparepart dan Pe...	113,9

Figure 5. Service Vendor Data Submenu

In Figure 5 is a display of the service vendor data submenu, with one of the categories displayed, namely Construction. This submenu contains data on service vendors in the construction sector. Each data in this submenu includes important information related to vendor identity, services offered, and others. On the left side of the display, there are navigation icons that are part of the service vendor data, namely, construction, outsourcing, and other.

6) Data Export Feature

Nama	Alamat	Narahubung	Kontak	Jenis Barang	Nama Barang	Harga	Quality	Cost	Delivery	Flexibility
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Figure 6. Data Export Feature

In this vendor database system, a feature is provided to export data from the system into a spreadsheet format. As shown in Figure 6, the system interface provides an export button with an airplane icon that allows the data export process to be done automatically.

7) Search Feature



Figure 7. Search Feature

Data in the system can be quickly found by using the Search function, which is located at the top center of the dashboard as can be seen in Figure 7.

8) Filling Form

Nama	Alamat	Narahubung	Kontak	Jenis Barang	Nama Barang	Harga	Quality	Cost	Delivery	Flexibility
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Figure 8. Form Filling Button

Users can access this form by clicking the +Add button located on the top right corner of the display, as shown in Figure 8. Through this form, users can input various information related to the vendor.

Figure 9. Vendor Data Entry Form

Figure 9 is a display of the vendor data entry form. The form consists of several fields that must be filled in by the user before the data can be saved into the system. The data that can be input includes:

- a) Name
This column is used to enter the official name of the vendor as the main identity in the system, which will be used in the process of procuring goods or services as well as reporting.
- b) Address
This column is to record the vendor's full address to verify the vendor's location, create cooperation documents, and track the delivery of goods.
- c) Contact Person
This column is used to record the name of the person who can be contacted as a vendor representative.
- d) Contact
This field contains the phone number of the vendor's contact person.
- e) Type of Goods

Figure 10. Item Type Form

The form shown in Figure 10 prompts the user to select the category that corresponds to the type of goods or services to be entered. For the goods form, the available category options include: Furniture, Electronics, Kitchen, Operations, K3, Facilities, FnB, and Others. As for the services form, the categories that can be selected are Construction, Outsourcing, and Others.

f) Item Name

Figure 11. Item Name Form

In Figure 11, the system will display the Item Name form used to record the identity or description of the item to be entered into the system.

g) Price

Figure 11 at the bottom displays the price column which functions to display the value of the unit price of goods.

h) Vendor Assessment

Figure 12. Vendor Assessment

This form serves as an evaluation material to assess vendor performance based on predetermined indicators, namely Quality, Cost, Delivery, Flexibility, and Responsiveness. Through this form, users can provide an assessment using a scale from 1 to 10. The assessment scale has the following meaning:

- A score of 1-4 indicates low or unsatisfactory performance.
- A score of 5-6 indicates fair performance or requires improvement.
- A score of 7-10 indicates excellent performance.

i) Total Ratings

As shown in Figure 12, this form is designed to assist users in automatically finding out the total amount of ratings filled in on each evaluation indicator.

j) Description

Figure 13. Description Form

In Figure 13 is the description of the assessment results, the system will automatically display information according to the total score obtained by the user. Based on the total score, the system will automatically display the appropriate description, with the following conditions:

- a. If the total score is in the range of 1-4, a description of “Poor” will appear.
 - b. If the total score is in the range of 5-6, a description of “Not Good” will appear.
 - c. If the total score is within the range of 7-10, a description of “Good” will appear.
- k) Review
In this section, users can provide reviews freely about the vendor in question, both related to service quality, as well as other aspects deemed relevant. This review column can be seen in Figure 13 after the description column.
- l) Other Goods
In Figure 13, especially at the bottom, there is the Other Goods column that allows users to include information about other goods or services provided by the vendor, apart from the goods or services that have been ordered previously.

3.2 Project Success Analysis Using Blackbox Testing

In analyzing the success of this project, the Blackbox Testing method is used with a focus on testing all features in the application to ensure that each feature runs well and in accordance with the conditions that have been set from the start. The following are the results of the tests that have been carried out:

Table 1. Login Testing

Testing	Desired Results	Test Results	Conclusion
Entering userid and passid in the login view using the registered account	The user successfully logs in and is directed to the main menu display.	The user successfully logs in and is directed to the main menu display.	Successful

Table 2. Dashboard Testing.

Testing	Desired Results	Test Results	Conclusion
Enter the dashboard view	The system displays a dashboard page along with pie charts and bar charts.	The system displays a dashboard page along with pie charts and bar charts.	Successful
Clicking on one of the names on the pie chart	The system displays complete information about the vendor, including a list of items that have been ordered.	The system displays complete information about the vendor, including a list of items that have been ordered.	Successful
Click on the bar chart with the description of good, less good, and bad	The system displays a list of vendor names that match the selected information.	The system displays a list of vendor names that match the selected information.	Successful

Table 3. Testing the Item Vendor Data Menu

Testing	Desired Results	Test Results	Conclusion
Accessing the goods vendor data menu	The system displays a table of all vendor data that has been inputted.	The system displays a table of all vendor data that has been inputted.	Successful
Click on the submenu on goods vendor data (furniture, electronic, operational, kitchen, K3, amenities, FnB and	The system displays the icon and table of all vendors that match the item category.	The system displays the icon and table of all vendors that match the item category.	Successful

other)			
Input new vendor data	The system successfully saves and displays new vendor data.	The system successfully saves and displays new vendor data.	Successful
Editing existing data on item vendor data	Make edits to the data, and the system updates the data.	Make edits to the data, and the system updates the data.	
Menghaspus vendor data on goods vendor data	The selected data will be deleted and the system updates the display.	The selected data will be deleted and the system updates the display.	Successful
Trying out the automatic calculation on the total assessment	After all vendor assessments are filled in, the system calculates and displays the total score automatically.	After all vendor assessments are filled in, the system calculates and displays the total score automatically.	Successful
Trying the automatic vendor description filling feature	After the total score is calculated, the description of the vendor (good, not good, bad) will be displayed automatically.	After the total score is calculated, the description of the vendor (good, not good, bad) will be displayed automatically.	Successful
Perform data exporting process	The data is successfully exported into a spreadsheet and can be downloaded.	The data is successfully exported into a spreadsheet and can be downloaded.	Successful

Table 4. Testing the Service Vendor Data Menu

Testing	Desired Results	Test Results	Conclusion
Accessing the service vendor data menu	The system displays a table of all service vendor data that has been previously entered.	The system displays a table of all service vendor data that has been previously entered.	Success
Clicking the submenu in the service vendor data (construction, outsourcing, and other)	The system displays icons and a table of all vendors according to the service category.	The system displays icons and a table of all vendors according to the service category.	Success
Inputting new vendor data	The system successfully saves and displays the new vendor data.	The system successfully saves and displays the new vendor data.	Success
Editing existing data in the service vendor data	Perform edits to the data, and the system updates the data accordingly.	Edits were performed, and the system updated the data accordingly.	Success
Deleting vendor data in the service vendor data	The selected data will be deleted and the system updates the display.	The selected data was deleted and the system updated the display.	Success
Testing the automatic calculation of total evaluation score	After all vendor evaluations are filled in, the system calculates and displays the total score automatically.	After all evaluations are filled in, the system calculates and displays the total score automatically.	Success
Testing the automatic vendor performance classification feature based on evaluation score	After the total score is calculated, the system automatically displays the vendor performance classification (good, fair, poor).	After the total score is calculated, the system automatically displays the vendor performance classification (good, fair, poor).	Success
Performing data export process from service vendor data	Data is successfully exported into a downloadable spreadsheet.	Data is successfully exported into a downloadable spreadsheet.	Success

Based on the results of tests that have been carried out with the Purchasing Supervisor using the Blackbox Testing method, as shown in Tables 1 to 4. The vendor database system has run well and fulfills all the conditions and needs that have been set. The system is able to perform each main function optimally, starting from login, vendor data management, assessment, to information presentation.

3.3 Project Success Analysis Using Interviews

In an effort to explore further information about user acceptance of the vendor database application that has been created, interviews were conducted with the Purchasing Supervisor and buyers with an interview item guide compiled based on the Technology Acceptance Model (TAM) components. These interviews resulted in a variety of opinions, reactions, and direct experiences from users.

According to the first interviewee who serves as Purchasing Supervisor at Savoy Homann Hotel, it can be concluded that the vendor database system is considered good because it is able to store all vendor data that has worked and provide information about the track record of each vendor. This system is also very helpful for the Purchasing Division in the process of searching vendor data, especially in the procurement of goods and services. The available features are considered adequate and the most useful feature is the search feature because it makes it very easy for users to browse the large amount of vendor data. Overall, this system is considered successful in supporting the effectiveness of the Purchasing Division's work.

Meanwhile, according to the second source as a buyer, at Savoy Homann Hotel, it can be concluded that the vendor database system is considered very helpful in facilitating access and management of all vendor data. Overall, the features available are quite good, with the vendor assessment feature considered the most useful feature because it facilitates the evaluation process. The system is also considered easy to understand. This application is considered to be very supportive of the Purchasing Division's performance and successful in managing the vendor database.

3.4 Discussion

This vendor database system was created as a tool for the Purchasing Division of Savoy Homann Hotel in determining the right vendor for each procurement process. This system was created based on observations that showed that the Purchasing Division did not have an information system that stored vendor data in a structured manner.

After the vendor database system is completed and has been described in the project success analysis section, it can be concluded that this system is in accordance with the needs and initial planning that has been determined. This conclusion is also reinforced by the results of interviews conducted with the Purchasing Supervisor and buyers.

Table 5. Comparison Before and After Project Implementation

Before the Project	After the Project Completion
Vendor information was incomplete and not properly recorded	Vendor data became complete and stored in a structured format in the vendor database system.
No evaluation of vendor performance	Vendor evaluations are available, including performance classifications from good to poor
Unstructured data entry, all vendor data mixed together	Vendor data is categorized based on goods or services through submenus.
Vendor data could not be downloaded	The system provides data export features in various formats such as PDF for reporting purposes.
No performance history recording for vendors	Recorded vendor data can be updated regularly within the system.

Based on table 5, it is known that there is a difference between the conditions before and after the vendor database project. the differences mentioned above indicate that the vendor database system can support more structured operations. With this system, it is expected that the procurement process can be optimized, especially in terms of vendor selection and decision making.

4. Conclusion

As the objectives formulated in the introduction, namely designing and implementing an AppSheet-based vendor database system as a solution to the problem of vendor selection in the process of procuring goods and services that have not been structured, have been achieved optimally. This system is able to overcome the main obstacles faced by the Purchasing Division of Savoy Homann Hotel, especially related to the difficulty of recording, searching, and evaluating vendor performance.

Based on the results of the discussion, the implementation of this system shows significant results. Blackbox testing and interviews based on the Technology Acceptance Model (TAM) prove that the system is well received by users and has met operational needs. Features such as visual dashboard, vendor classification based on goods and services category, and vendor performance assessment form are proven to increase efficiency and accuracy in the procurement process.

The results of this research provide prospects for development in a broader direction, both in terms of system functionality and application to other work units or organizations with similar needs. Further development could include data security integration, advanced reporting features, and system adaptation to support more strategic decision-making processes in supply chain management.

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