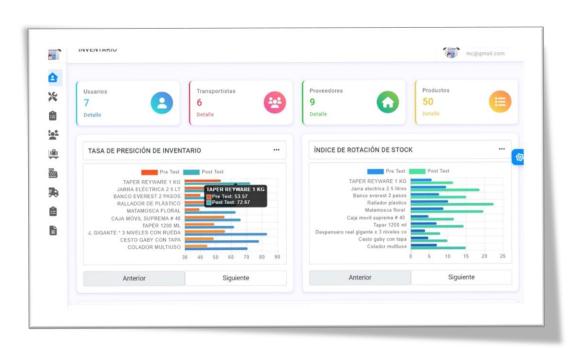
MANUAL OF THE WEB SYSTEM FOR INVENTORY CONTROL





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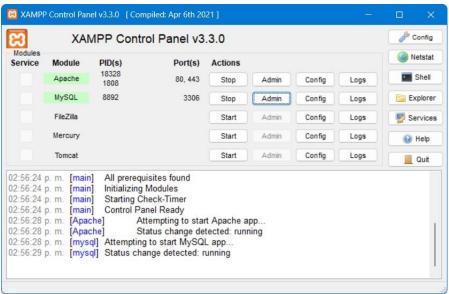
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WEB SYSTEM USER MANUAL

Initialization in XAMPP

The Apache module is activated so that it allows having a web server locally on the computer where the web system is implemented. And with the MySQL module activated you can manage the database for communication with the web system through phpMyAdmin and carry out all inventory control operations.

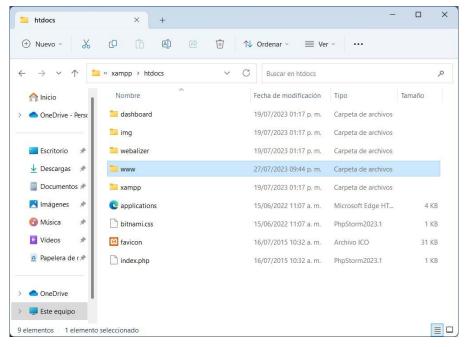
Figure 1. XAMPP running



Files in htdocs

The files from the web system are copied to the www folder for execution in the daily use browser.

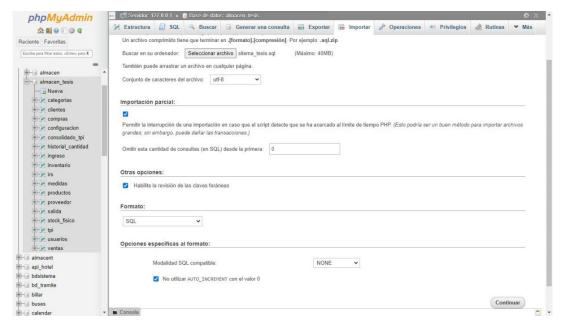
Figure 2. htdocs folder on C: drive in Windows 11



Importing the database in PhpmyAdmin

filesistema_tesis.sql is selected to continue with the import process and the database is ready to be used by the web system.

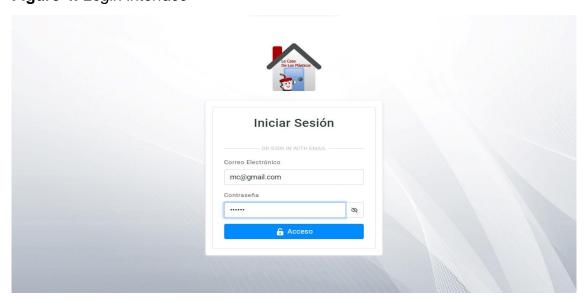
Figure 3. Database import.



Login

Figure 4 shows the login interface that has the fields to enter the operator's email and password to access the system.

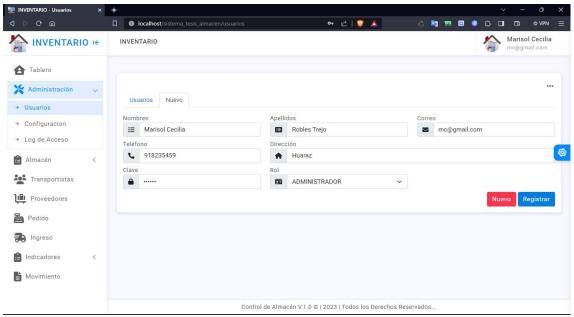
Figure 4. Login interface



Personnel record

Figure 5 shows the personnel registration interface where you enter the names, surnames, email access to the web system, telephone number, address, password and your role.

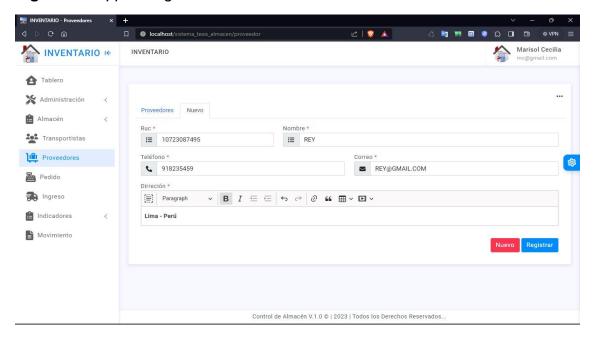
Figure 5. Personnel registration interface



Supplier registration

Figure 6 shows the supplier registration interface where the RUC, name, telephone, email and address are registered after clicking on the register button.

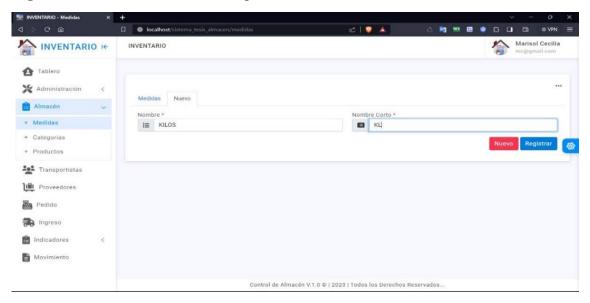
Figure 6. Supplier registration interface



Record of measurements

In Figure 7 the recording of measurements is carried out, with two fields designated for 'name' and 'short name'. In the first field, enter the full name of the measurement, for example: centimeters, grams, kilos and liters. And in the second field, a short name corresponding to the term entered in the first field is entered, 'cm', 'gm', 'kl' and 'lt' would be entered according to the previous terms.

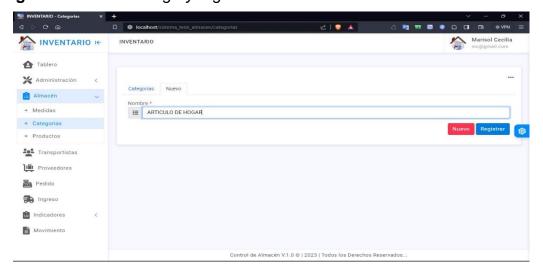
Figure 7. Measurement recording interface



Product category registration

In figure 8 in this section, the categories of products that arrive at the warehouse are recorded. On this occasion, the categories are included, 'HOUSEHOLD ARTICLE', 'BOTTLE', 'BOX', 'BATEA', 'BOX', among others.

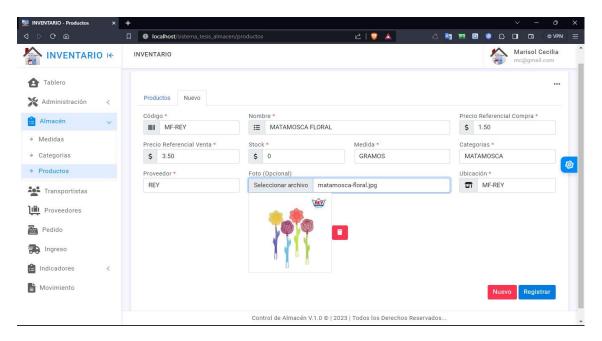
Figure 8. Product category registration interface



Product registration

In figure 9, product registration is carried out, entering the information in the following fields: code, name, purchase price, sale price, stock, measurement, category, supplier, and selecting a photograph of the product. Finally, the location is indicated before pressing the register button.

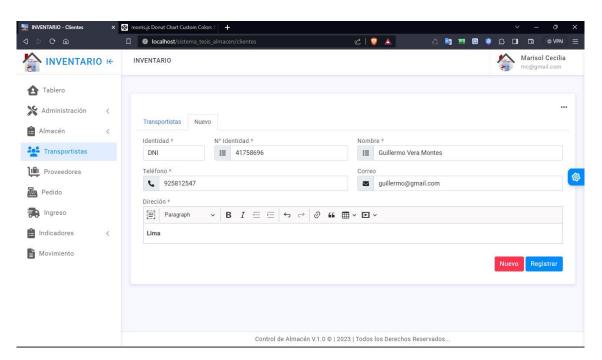
Figure 9. Product registration interface



Carrier registration

In this section designated for the carrier in figure 10, the following fields are entered for corresponding registration: identification, identification number, name, telephone, email and, finally, the address. Then, proceed to click on the registration button.

Figure 10. Carrier Registration Interface

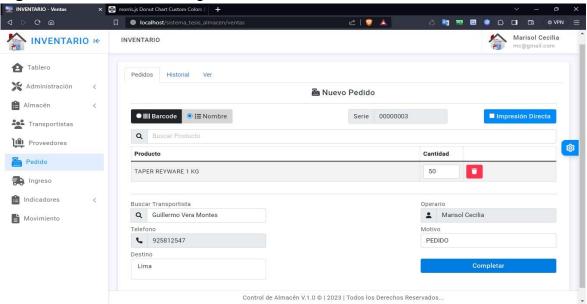


Product order registration

In Figure 11, which details the ordering interface, a combobox search engine is available. In this search engine, you can choose between the barcode and the product name. Depending on the choice, the information is entered in the corresponding field and filtered according to what is entered. In this specific case, a search by name was performed by entering 'TAPER REYWARE 1 KG' in the designated field and selecting it in the filter to display in the table.

After this, the carrier information is entered. Once the carrier is entered, the system automatically filters its associated phone number and address. The 'operator' field is automatically completed when logged in, and the reason for the order is set to 'ORDER'. All of this is done before proceeding to click the 'complete' button to successfully complete the operation.

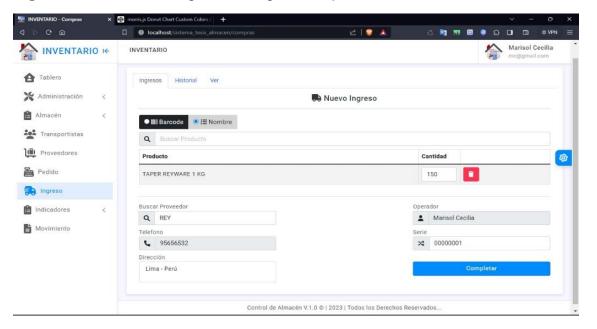
Figure 11. Product order registration interface



Product entry registration

In figure 12, which details the entry interface, there is a search engine where you can select between the barcode and the product name. The information is entered in the corresponding field and filtered according to what is entered. In this specific case, a search by name was carried out by entering 'TAPER REYWARE 1 KG' in the designated field and selecting it in the filter to display it in the table. Supplier information is then recorded, then the system automatically filters the phone number and address associated with the supplier. The 'operator' field is automatically populated and the serial number of the item is entered; finally 'complete' to end the operation

Figura 12. Interfaz de registro de ingreso de producto

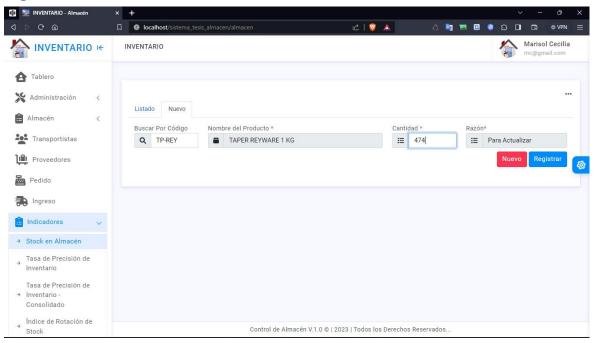


Stock in warehouse

In the 'Stock warehouse' interface in Figure 13, registration is carried out following these steps: first, a product code is entered in the field designated as 'code'. In this example, 'TP-KING' was entered. Selecting the code automatically filters the product name into a read-only field.

Then the quantity of the product is entered and the reason for the action is specified, in this case, the reason 'To Update by default' is used, since it will be edited later. Then click on the register button to successfully complete the registration.

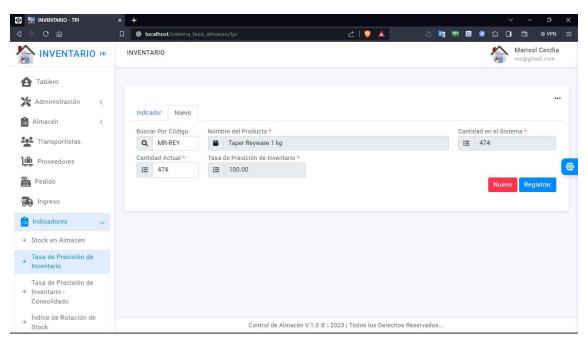
Figure 13. Warehouse Stock Interface



TPI by product

In the 'Inventory Accuracy Rate' interface in Figure 14, the functionality is described as follows: first, a code search is performed by entering an existing code, such as "MR-KING". Selecting the code automatically activates a filter on the 'product name' and 'quantity in system' field. The current quantity is then entered and the 'inventory accuracy rate' field automatically calculates based on these last two fields. After completing these steps, you click on the 'register' button.

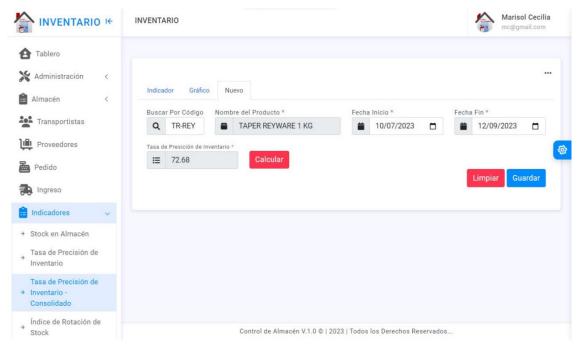
Figure 14. Inventory Accuracy Rate Interface



Inventory Accuracy Rate - Consolidated

In the 'Inventory Accuracy Rate - Consolidated' interface in Figure 15, the product code is entered, and a period is also entered to calculate the average of the product accuracy rate obtained within the evaluation days, to finally do Click the 'Save' button to record the result.

Figure 15. Consolidated Inventory Accuracy Rate Interface

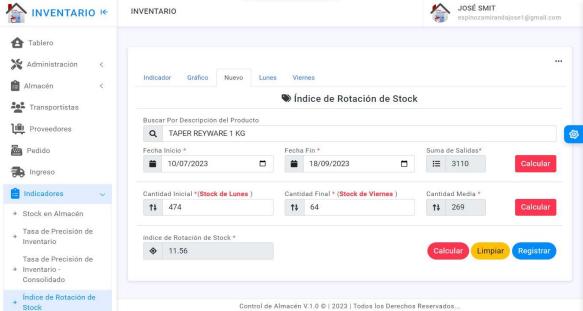


Stock turnover ratio

Figure 16 shows the interface of the 'Stock Turnover Index', the registration is carried out as follows: first, we perform a search using the product description field. In this case, 'TAPER REYWARE 1 KG' was entered. Afterwards, we select a date range and calculate the sum of outputs by pressing the 'calculate' button. Then, we enter the initial amount (Monday) and the final amount (Friday), after which we press the 'calculate' button again. This gives us the average amount. Finally, to obtain the stock turnover ratio, we press the 'calculate' button again. It is important to mention that this procedure involves the repeated use of the 'calculate' button, due to the different stages of calculating the stock rotation index.

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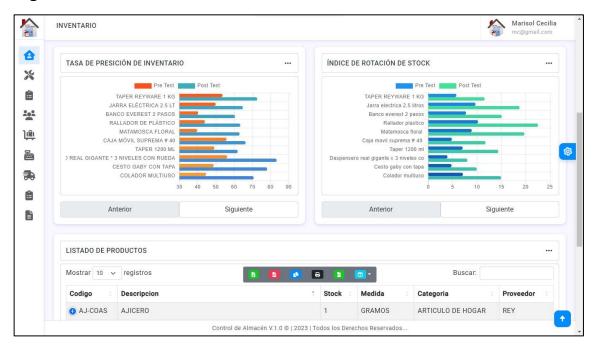
Figure 16. Stock Turnover Ratio Interface



Dashboard interface

Figure 17 shows a panel that presents data on the number of suppliers, products, carriers, and users. Additionally, bar charts representing inventory accuracy rate and stock turnover rate indicators are included. By hovering the cursor over the graph, especially over one of the bars, it is possible to view the product description and the corresponding results of the pre-test and post-test. Since there are 50 records, pagination with 'previous' and 'next' buttons has been implemented in both graphs.

Figure 17. Board



Option menu

In Figure 18, buttons are presented that offer several options for exporting the document. The first green button generates an Excel file that reflects the table in the selected view. The second button generates the report in PDF format.

In addition, there are other buttons with specific functions: the third button copies the information, the fourth prints the report, the fifth exports in CSV format and the last allows you to show or hide columns in the table as necessary.

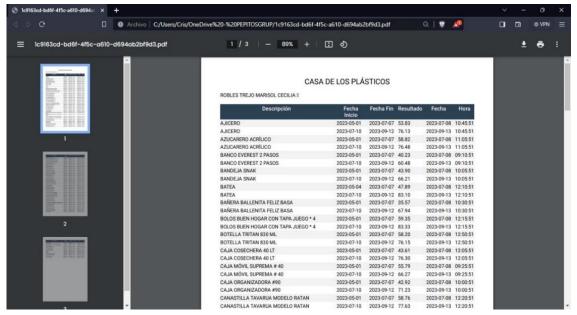
Figure 18. Option menu



Result of generating a report in PDF file

Figure 19 shows the result of generating a report in a PDF file. This report is the direct result of pressing the second red button, identified in figure 18, based on the table of the selected view.

Figure 19. Result of generating a report in PDF file



Result of generating a report in Excel file

Figure 20 shows the result of generating a report in an Excel file. This report is the direct result of clicking the first green button, identified in Figure 18, in relation to the table displayed in the selected view.

Figure 20. Result of generating a report in Excel file

