National Institute of Business Management

Diploma in Computer System Design 16.3

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This Project Proposal is submitted in partial fulfillment of the requirement of the Diploma in Computer System Design of National Institute of Business Management.

"Water is one of the most abundant and common materials on earth. It covers 70 % of the surface of the earth as water and ice but drinking water is very low percentage. Because of that the water system operators most important is that guardian of public health."

ABOUT THE COMPANY

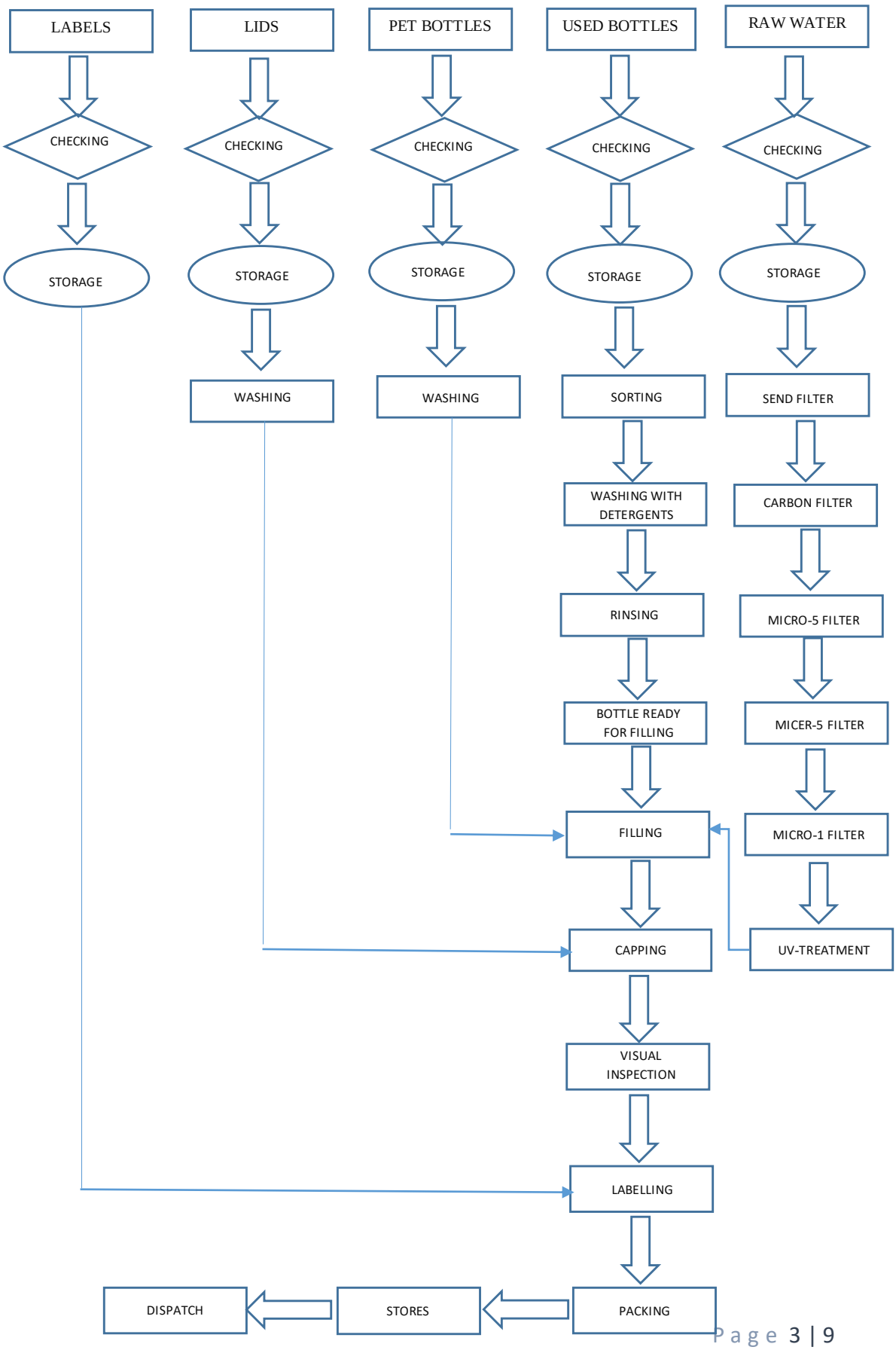
Established in 2014 Nilgala Drinking Water System and this company produced quality, best products of bottled drinking water to the customer.

At Nilgala Drinking Water System, management focus is directed toward producing and improving the best processes to bring customers, clean, healthy, and hygienic water to quench peoples thirst.

Nilgala drinking water system company in UVA province, Monaragala district in Sri Lanka. This company situated in Nilgala land bounded to Nilgala forest. Therefore, company can direct access to the pure water source and company can produce best quality products.

Nilgala Drinking Water Systems Company is awarded company and this is SLS certified company.

ABOUT THE WHOLE PROCESS OF THE COMPANY



ABOUT THE EXISTING SYSTEM

The existing system of Stock Management system totally is done by manually. All the details are recorded in following item.

- Stock item
- Purchase item
- Purchase return item
- Sales item
- Sales return item
- Supplier details
- Reports details

Employees tend to make errors like data entry and others, Manual entry is also huge time consuming, Reports are not attractive are also conduct in this system.

Terms of reference

This Stock Management system is most suitable for larger business to manage and keep account of their stock accurately.

The main objectives of this academic exercise are followings,

- Study the existing Stock Management system and identify the difficulty of the stock activities.
- Purpose of a Stock Management system, which is capable of overcoming above deficiencies.
- Carry out a feasibility study in related to the user to determine the capability of the proposed system.
- Generate the benefit justification for the proposed web based system.
- Provide program specification for implementation of the system.

Disadvantages of the Existing System

- Less security.
- Need more is.
- Data isolation.
- Report generation is complex.
- Data redundancy.
- Time consuming.
- Inflexibility.
- Need more office space and stuff.

REQUIREMENTS OF THE SYSTEM

The company wants to do the relevant transactions under fully controlled manner through the system.

A part from that they expect follows,

Usability

- The system must be easy to use by users such that they do not need to read an extensive amount of manuals.
- The system must be quickly accessible by users.
- The system must be intuitive and simple in the way it displays all relevant data and relationships.
- The menus of the system must be easily navigable by the users with buttons that are easy to understand.

Reliability

- The System must give accurate stock status to the user continuously. Any inaccuracies are taken care by the regular confirming of the actual levels.
- The system must provide a password enabled login to the user to avoid any foreign entity changing the data in the system.
- The system should provide the user updates on completion of requested processes and if the requested processes fail, it should provide the user the reason for the failure.
- The system should not update the data in any database for any failed processes.

Interfacing

- The system must offer an easy and simple way of viewing the current stock.

Performance

- The system must not lag, because the workers using it don't have down-time to wait for it to complete an action.
- The system must complete updating the databases, adding of recipe, ingredient, vendor and occasions successfully every time the user requests such a process.
- All the functions of the system must be available to the user every time the system is turned on.
- The calculations performed by the system must comply according to the norms set by the user and should not vary unless explicitly changed by the user.

Supportability

- The software is designed such that it works even on systems having the minimum configuration.
- The system is adaptable even if additional plugins or modules are added at a later point.

ABOUT THE PROPOSED SYSTEM

We mainly focus our attention to following area.

Automated calculations.

Since all the calculations are handled by the system it eliminates many mundane and time consuming processes of the organization like credit amount, remaining amount calculation, etc.

Produces high accurate outputs.

since all the calculation parts are done by the software there won't be any errors in calculation processes so the organization can get necessary expected outputs from the system.

Highly reliable.

Because of the calculations are done by the system and because of their high accuracy the reports and the final outputs that will be generated by the system will be highly reliable.

Scalability is high.

While the Organization will expand, the complexity of the processes will be much complex. But using this Computerized system everything will be kept straightforward, because using this system will be much easier than doing a bunch of paperwork.

High data security.

The data can be saved and stored using MySQL/ Cloud databases the data will be more secure and will be saved form natural and human disasters.

Processes will be faster.

Using this system, the entire process of calculating salary and all will be much faster and easier for the organization. The reports and the output can be generated instantly at the click of a button.

Cost effective.

Since the Computerized Stock Management System is more efficient than present paper based manual system the workload can be done much faster so that the time can be saved, and the cost that should be spent on more staff members can be also reduced.

Can view data on different formats.

Viewing the information by this System allows the company to take the advantage of the option to view information using tables, so the management of the organization can sort or filter the information as they need.

Basically the system will cover maintaining Suppliers, Stock, Stock, Sales and Purchases.

CONCLUSION OF THE PROJECT

Stock Management system is a computer-based system for tracking Stock levels, orders, sales and deliveries. It can also be used in the manufacturing industry to create a work order, bill of materials and other production-related documents. Companies use Stock management software to avoid product overstock and outages. It is a tool for organizing Stock data that before was generally stored in hard-copy form or in spreadsheets.