



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2021

Project Charter

Title of the Project :	Inventory Control System for Casanova
Batch :	Weekday – Batch 8
Development Technology :	React, NodeJS, MongoDB, Express (MERN)

Description of the Project:

The client of our project is ‘Casanova’ which is an apparel manufacturing company based on Sri Lanka. Casanova is importing raw materials through Priyantha Distributions who was in the industry for more than 10 years, from abroad suppliers, and they are sending those raw materials for several local garments to produce a ready-made product and the ready-made products are selling for their local buyers. Those local buyers are, Odel, Premium Casual, Liberation, Strips and Checks, Diligenze, Deedat, Coco, Biconic, Cotton collection. The task we have to do is to implement the Inventory Control System. As a group, we have come up with some main functions to implement and those functions have several tasks to perform.

As a brief indication of the system, the buyer of Casanova is placing an order by giving details of the order with making the necessary payments. The order must deliver to the buyer on date. The order function is checking required amount of raw materials need for an order is having in the Raw Material Stock Management function. If there is not necessary amount of materials to fulfil the order, Raw Material Stock Management function is informing the order function the less amount of materials. Less materials and generally needed raw material amount are informing to the Import Management function to get imported and Casanova doing the necessary payment for the suppliers. After receiving the raw materials from suppliers, they are sending to Raw Material Stock Management function through Import Management function. Raw materials are transporting to the warehouse after purchasing from suppliers. Raw materials are categorized into three main categories in Raw Material Stock Management function. As per the orders from buyers, the necessary raw material amount which is needed to complete the order is taken from Production Management function and distributed to each garment through Production Management function. at that point, a payment will be done for the garments. The garments are sending the apparels after completing the order. There will be a transport in between garment and Casanova. The completed apparel orders are sending to the Quality Check function to check the quality of the final output. In this function, if the order is not satisfied the given requirement and the final output is not at the best quality they will be reported. The completed quality checked apparel products are going to the ready-made product stock store. In Ready-made Product Management function, there will be a schedule to distribute the orders to the buyers. There will be a transport. After above mentioned procedure, all the revenues and expenditures management, all the profits and losses calculations are done by the Account Management function. all functions are generating reports. Admin role can access all those reports.

The main problem to be addressed in this system is to manage the Inventory system. It is more important to Casanova because, they can manage all the import raw materials and give the correct amount of products to the given time for their buyers and manage all the revenues and expenditures.



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Details of the Group Members: *(Provide the details of the group leader in the first row)*

	Name with Initials	Registration Number	Contact Phone Number	Email
1.	Fernando W.T.P.R	IT20198640	0719406454	it20198640@my.sliit.lk
2.	Hewage H.K.P	IT20185220	0750245384	it20185220@my.sliit.lk
3.	A.M.K.B Abeykoon	IT20203658	0765828343	it20203658@my.sliit.lk
4.	Dhanushanka A.K.L	IT20244484	0717122895	it20244484@my.sliit.lk
5.	Liyanage D.K	IT20109462	0766984289	it20109462@my.sliit.lk
6.	Malluwawadu K.T	IT20109530	0767472964	it20109530@my.sliit.lk
7.	Jayasuriya J.A.D.A.S	IT20067342	0764397731	it20067342@my.sliit.lk
8.	Senanayake S.M.H.S	IT20041052	0703144965	it20041052@my.sliit.lk

List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Fernando W.T.P.R	Production Management - According to the buyer's order, raw materials are requested from Raw Material Stock Management. The garment factory is selected according to their capacity and conferring to the buyer's order. Order is given to the selected garment factory. Completed ready-made garments are rechecked for any deficiencies. If there are not any deficiencies payment is done. Finally, generates a report mentioning the deficiencies of the garments and the number of received garments. Then, sends it to the admin. A suitable transport will be selected and implemented for both sending raw materials and receiving readymade stocks.
2.	Hewage H.K.P	Account Management - All the payments are managing. Takes the payment details of the system and prepares the Purchase journal, Sales journal and General journal. Details of the transactions among buyers are included in the sales journal and details of suppliers are included in the purchase journal while the details of transport and other expenses which paid for the system are included in the general journal. Account Manager makes the profit of the company using the system. Finally, system generates a report including all above mentioned information.
3.	A.M.K.B Abeykoon	Import Management - Getting a stock request order from Raw Material Stock Management. Raw Material Stock Management sends a request of defects. After getting request, pays to the Supplier and get the stock. Then transport stock to the Raw Material Stock Management. Then generate a report and send to the admin.
4.	Dhanushanka A.K.L	Ready-made Stock Management - Store and transport the final product to the buyer. After the quality checked orders will be grouped by our section into different categories and schedule will be created. Finally, report will be created according to orders. when transporting is done according to capacity of the bulk and invoice will be generated.



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5.	Liyanage D.K	Raw Material Stock Management - Managing the raw materials in the system which is coming from the suppliers through the Import Management function are adding and analyzing to the system. If the raw materials limit is not satisfied to the set limit, the system is informing that. Acting intermediate in between the order function and import management function to inform the less materials for an order to be done. The stocked raw Materials are categorized in to three main categories as fabric, accessories, and packing materials. Also, sending the raw materials which was selected in order function for orders to the Production management function. Generating reports according to distributed materials and Exported materials when updating the stocks. Can view by admin.
6.	Malluwawadu K.T	Quality Check - Quality Check is dividing into three main processes as Testing, Monitoring, and Reporting. In Testing, Quality Check function checks the given requirements and the design of the ready-made products which is coming from the production management function. All the testing are monitoring in the Monitoring section. Also, doing the Monitoring of tested products Quality, whether it is a high quality or low-quality product. Finally, if there are some products which is not matching to the given requirements, will report to Production Management function through Reporting. They can view by Admin.
7.	Jayasuriya J.A.D.A.S	Transport Management - Import management buy raw materials from suppliers, and they are transport from harbor to company by own vehicles of company. All the Imported stocks are transport to the garments by own vehicles of company. Transport Manager should arrange schedules for transportation and updated record of available and not available vehicles according to relevant schedules. Other managers also can access to the transport schedules which is arranged by transport manager. Transport management has a list of all the vehicle details, driver details, routes. also, he is the responsible person for above records behalf of the company. After fulfilling the order, all the readymade items are handover to production management to check quality. All the readymade items are transport to the Ready-made Stock Management and Account Management can retrieve invoice of every transaction regarding to transportation. Usually end of the month Transport Manager should generate monthly payment report.
8.	Senanayake S.M.H.S	Order Management - Getting an order from a Buyer. After getting the order, if the needed items to complete the order are available, confirm the order. If not inform the Raw Material Stock Management to get the needed items. Buyer can place an order after filling an order form and making the relevant payment. A summary report is shown to the buyer after the order is placed. At the end of the month, a report on all orders taken will be available.