

Develop a Cloud Based System for Merchandising Department to Track Samples in Pee Empro

Submitted by



Ankita Ranjan



Ayushi Singh

Project Brief

- The Project was undertaken to study and analyze the pre-production processes and an effort to reduce the delay in merchandising process of Pee Empro.
- Further, reasons for the problem are found out as per the analysis made on the T&A and the suggestions are made related to the findings.
- The study will help the organization to reduce the delay in merchandising process by identifying and rectifying some of the causes of delay.
- The project is carried out at the merchandising department of the Pee Empro Pvt. Ltd. an export house in Faridabad, Haryana manufacturing all the well known brands. To name a few- Gap, Old Navy, Abercrombie and Fitch.

Project Objective

The objective of the study is to understand the merchandising process of apparel industry and tried to find out the key internal issues, its causes and suggestions which can help the company to deliver the goods in time to the buyers end.

Primary Objectives

- Streamlining the root cause for delay and gaps at pre-production stage.
- Analyze the reasons and propose an effective feasible solution for the same.

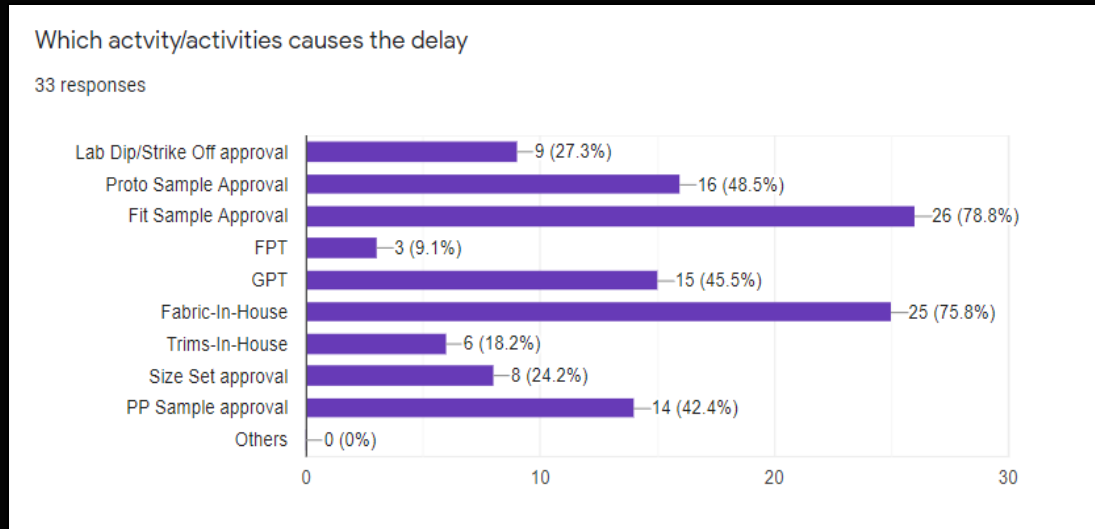
Secondary Objectives

1. To study and analyze merchandising department work flow and operations process at Pee Empro.
2. Analyzing the work flow among the inter department , find out the root cause of delays and their volume.
3. Proposing a feasible solutions to reduce the delays.

Research Methodology



Findings and Analysis from the survey



After analyzing both the survey, it was found that the common root cause of the problem in the department was mainly in these activities-

- GPT submission and approval
- FIT sample approval
- Bulk fabric and trims in house
- PP sample submission and approval

These activities were then surveyed one by one to find out what causes the delays in these particular areas.

Problem
identified

Miscommunication in
sampling department

Proposed
Solution

Cloud based tracking
software

The aim of suggesting a cloud based tracking software in the merchandising department of Pee Empo is to make data visibility clear and have one platform where all the details related to every project is present and one could be aware of the workload prioritisation and there's a proper progress measurement and order follow up.

SOLUTION

- The one time investment in cloud based system provides no. of advantages for long time run.
- All the information of past orders, running orders and pending orders can be maintained at one place and can be accessed by team members and workers by providing them login id and password.
- The data in the cloud based system can be updated whenever required.
- Auto data Generation: Costing and Bill of Material, Indent as soon as the orders are confirmed.
- The software will enable you to upload the picture of any style or BOM or Costing sheet etc.

Cloud based software

Advantages

- Effectiveness in communication
- Data transparency and flexibility
- Better planning.
- Less Paper work.
- Status checking
- Time saving

Limitations

- Depends on internet connection
- Technical problem
- Low Connection
- Vulnerability to attack
- Limited control and flexibility
- Cost concerns

Results

User Login and Registration

Sign In

Username

Password

Sign In

Register

Username

Password

Register

phpMyAdmin

Current server: MySQL

login

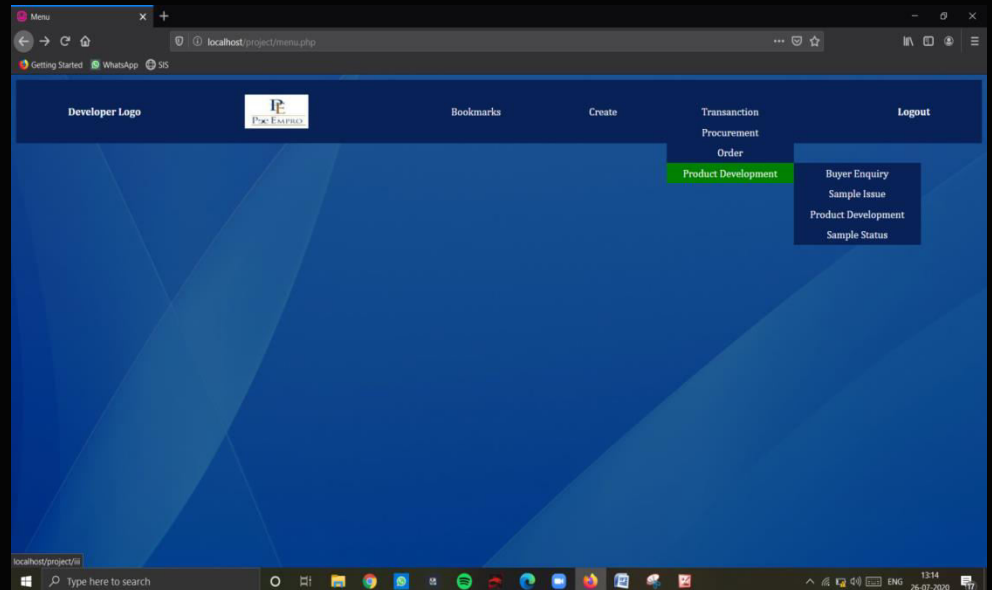
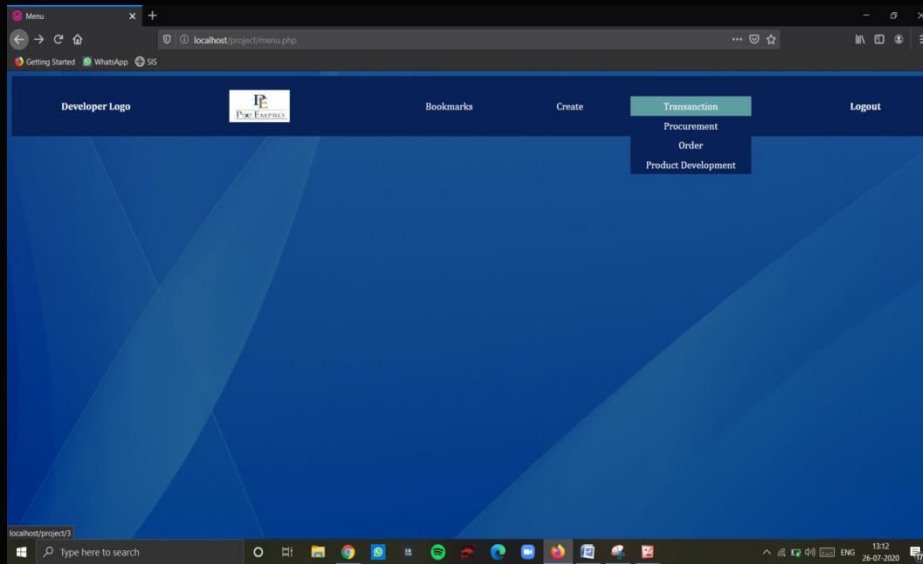
name	password
Jafinder	abcdetg
Jatin	123456

Showing rows 0 - 1 (2 total. Query took 0.0008 seconds)

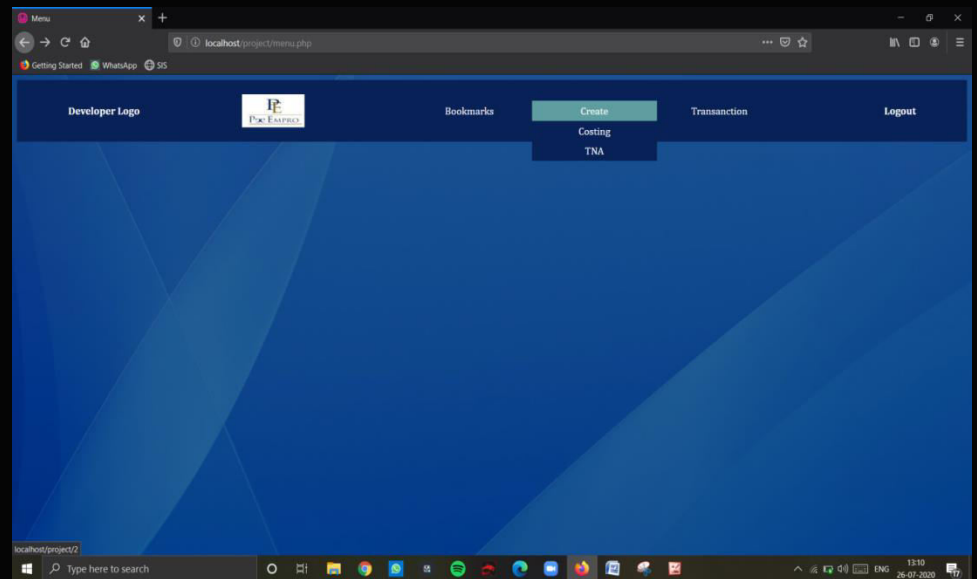
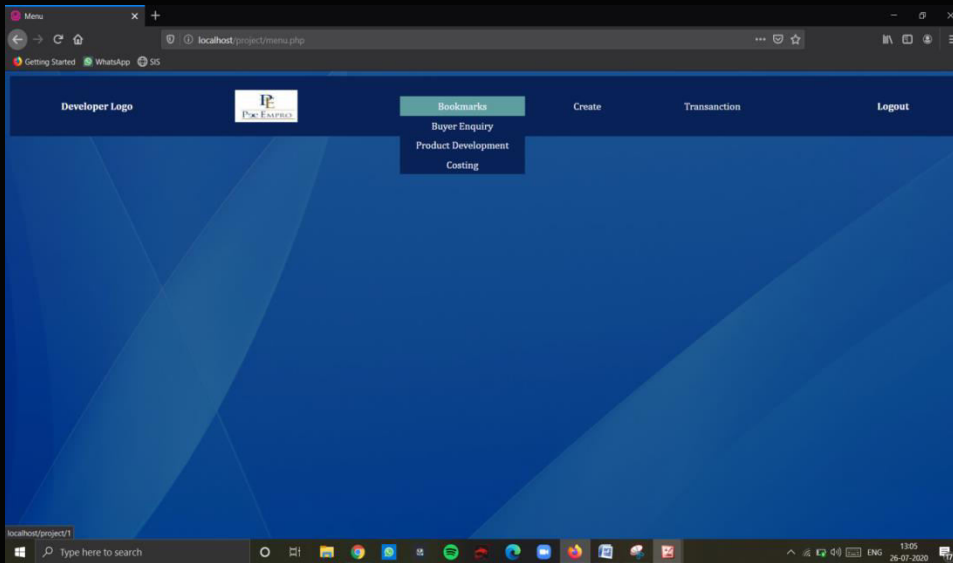
SELECT * FROM `login`

Query results operations: Print, Copy to clipboard, Export, Display chart, Create view

Results



Results



Comparison between traditional and proposed tracking system

Traditional	Proposed
Time consuming –Merchandisers have to explain the status for 10-12 min verbally	Time saving- no need for explanation, due to data transparency
Records were maintained on paper	No need of paper work
Requires more manual work	Requires less manual work
Misplacement of data	No misplacement even oldest records can be accessed anytime
No cost capturing at PD Stage	Cost can be captured at PD Stage
Indent are generated manually	Auto data generation of Indent
Lots of files and folders are required to maintain data	Technical maintenance of all the data which saves time.

Total time saving for a merchandiser per day = 12 min. (Approx)

Total no. of merchandisers =14

*Total time saving for discussion of styles with HOD= 12*14= 168 min (Approx)*

Future Scope of the Project

- The study gave more focus on the internal causes for the problem. Internal issues and flaws are controllable factors as the solutions are in the hands of the organization.
- Further, there can be many external issue and problems which can also act as a hurdle for the smooth functioning of the merchandising planning and process.
Some of the external factors for causing delay are -
 - Delay in fabric in house
 - Delay from the suppliers end
 - Logistic delay
 - Plant location problem etc.
- The study can be extended to find out whether there are any external causes for the delay in work process or not, If yes how far it affects the process efficiency
- Later on cloud based development can be initiated in other departments of the garment industry where lack of communication is causing delay.

Limitation of the study

- ✓ The study provide a solution based on information technology so it requires proper training of employees.
- ✓ The cloud based system keep on adding and updating new features so the company require IT support from time to time.
- ✓ Good internet connection is required for a technical based system.
- ✓ For updating various features technically sound people are required to use the solutions provided.

Conclusion

- The study helped to understand the merchandising process and some of the crucial areas of merchandising which can affect the smooth functioning of the whole process.
- The study lights up the areas of technological advantage by replacing the manual work.
- Sampling is an inevitable process in merchandising and the importance of sampling and the after affects of samples getting delayed are critical.
- Reduction of delay and saving such time can help the company in meeting the delivery dates on time.
- Controlling this delay would enable the company to reduce the deviation from the scheduled lead time and honor the delivery date.