

Final Year Project Report

CPMS

(Chemical Plant Management System II)



Project Advisor:

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Submitted By:

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Session

2014-2017

University of Management and Technology

C-II Johar Town Lahore Pakistan

Dedication

This project is dedicated to our teachers, who not only helped us learn the new technologies but also supported us whenever we had trouble learning and gave us a push to reach our goals. We'd also dedicated this project to our parents who work day and night to provide us resources and made this possible.

Final Approval

Panel of Examiners

- **Head of Department**
Department of Computer Science
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- **Program Director (Final Year Projects)**
Department of Computer Science
UMT Lahore

- **Supervisor**
Department of Computer Science
UMT Lahore

- **Co-Supervisor**

Acknowledgment

In the name of Allah who is the most beneficent and the most merciful.

First of all, we would like to thank Petro Chemical International for giving us the opportunity to design a system for them and letting us access to the old system which helped us a lot in understanding the problems they are facing. We would also like to thank our advisor who support and guide us on the right direction throughout the project, and our evaluation committee members who guided and appreciated our work.

We are also thankful to our parents that they worked hard for us and full filed every need of us.

Project Title

CPMS- Chemical Plant Management System

Objective

The objective of our project is to provide a system which automates the business process of the Petrochemical and facilitates the employees of petrochemical by providing such a system that meets their requirement they have provided us.

Undertaken by

- Syed Ali Uzair
- M Anees Khalid
- Ishaq Ahmed

Supervised by

Muhammad Nabeel

Tools Used

- Xampp
- Sublime Text 3
- PHPStorm
- Google Chrome

Operating System

- Works on any Operating System

Browser

- Google Chrome

Plagairism Report

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Abstract

A system is developed for Petrochemicals to make their business process easy so that they can manage their data in a well-organized way and help them manage their multiple plants' information in a single system and also provide them reports of their plant.

A web-based application along with a mobile application is developed to keep record of their production data, analyze their data from the system generated reports, keep track of the cost of the products produced in the production phase. Advantage of using this system is that there would not be any need of paper work which will save time and will boost their process. Software's that were used for the development are Sublime Text 3, Android studio, XAMPP, command prompt, composer.

REVISION CHART

Version	Primary Author(s)	Description of Version	Date Completed
Draft	Syed Ali Uzair	Initial draft created for distribution and review comments	25 Aug 17
Preliminary	M Anees Khalid Ishaq Ahmed	Second draft incorporating initial review comments, distributed for final review	2 Dec 17
Final	Syed Ali Uzair M Anees Khalid Ishaq Ahmed	First complete draft, which is placed under change control	17 Jan 18

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Definitions and Acronyms

Acronym	Definition
UMT	University of Management and Technology
CPMS	Chemical Plant Management System
PCI	Petro Chemical International
CBD	Collaboration Diagram
UC	Use Case
TC	Test Case
CF	Comparison Feature

Table 1: Table of acronyms and definitions

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1. INTRODUCTION

CPMS (Chemical Plant Management System) is web-based application for Petrochemicals. Petro Chemical is an International petroleum company which is providing different chemicals to companies. They assigned us project to make web-based application where all the records of items can easily store and report of sale, purchase of items must be generated whenever CEO of company wants. Basically, we are checking the inventory capacity if it declines then it will be generating limit alert to procurement department after that procurement department will contact to the previous suppliers or vendors to buy require items. All details of items bought from vendors or suppliers will be sent to finance department and they will check out information related to require items after confirmation from procurement department. Finance department will generate gate pass after it Quality assurance person will check out quality and send the details to procurement manager if it does not meet the quality of items then it would be rejected and they would reconsider it. If it meets quality standard of our company then it would be considered. Payment would be done after approval of finance manager. After procurement process inventory would be updated and all the details of items would have sent to CEO. If require items available in inventory store it will be sent back to demanding department for their use. We are using languages for this project are Php for dynamic programming, JavaScript, HTML and CSS for designing. We will use Laravel 5.3 framework for this project.