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ABSTRACT

It is observed that one cannot demarcate the beginning and end points of Production Management in an establishment. The reason is that it is interrelated with many other functional areas of business, viz., marketing, finance, industrial relation policies etc.

Production management deals with decision-making related to production processes so that the resulting goods or service is produced according to specification, in the amount and by the schedule demanded and at minimum cost. Production management also deals with a decision- making regarding the quality, quantity, cost, etc., of production. It applies management principles to production.

It is also used for management of data regarding different department input entities for their corresponding outputs, such that the data output can be easily recorded by its mobility.

One such Online Application for various posts in the Visakhapatnam Steel Plant using the Enterprise Edition SQL Database along with phpMyAdmin, BootStrap, jQuery, HightCharts and amCharts was developed by us and is presented here.

INTRODUCTION

Production management means planning, organising, directing and controlling of production activities. Production management deals with converting raw materials into finished goods or products. Production management also deals with decision-making regarding the quality, quantity, cost, etc., of production. It applies management principles to production.

Production management is a part of business management. It is also called "Production Function." Production management is slowly being replaced by operations management.

The main objective of production management is to produce goods and services of the right quality, right quantity, at the right time and at minimum cost. It also tries to improve the efficiency. An efficient organization can face competition effectively. Production management ensures full or optimum utilization of available production capacity..

Purpose :

Production management helps the business firm to achieve all its objectives. It produces products, which satisfy the customers' needs and wants. So, the firm will increase its sales. This will help it to achieve its objectives.

Supervision and control of transformation process for efficient production of goods and services.

Product design and development to determine the production process for transforming the input factors into output of goods and services.

APPLICATION SCOPE:

- ➢ Usage of front end Framework like Bootstrap creates the Mobile responsiveness and thereby increases the number of Applicants.
- ➢ Supports almost all the popular browsers like the Google Chrome, Firefox etc,.
- ➢ User Friendly Graphical Interface is designed in such a way that even an applicant with minimum technical knowledge will also be able to use it.

SYSTEM DESIGN

The system design is needed for information processing technology and user interfaces development analysis. The application first asks the user to login if he has an existing account or else the user needs to register a new account to use this application, the login form and the user registration part is done using HTML5 and CSS3 along with a front end Framework called BootStrap. The backend language chosen for this project is the PHP and the DataBase used is the SQL

Stage1:

In the request to make the record the candidate is provoked to enter his/her fundamental subtleties required for the application like name email and secret key

In the following stage, the subtleties entered by the client graphically are approved at the customer side itself utilizing PHP and JavaScript. This expands the exactness of the subtleties and diminishes the system stream in this manner lessening the weight on the Server.

The web servers utilized for this venture are Apache7.0.11 and Xampp. After the approvals utilizing the PHP, the subtleties are set to the server utilizing the Java Server Pages which at that point associates the server to the DataBase, where the tables required were at that point made.

At that point, the client's subtleties are spared to the database. In the later stages, the client is diverted to the fundamental PDMS Dashboard Where every one of the subtleties of the item is indicated now, the client needs to return to the sidebar and will check other relatable choices

Stage 2:

Coming up next are things that are available in the dashboard. Outline of the parent items information, singular materials information and structured presentation for the individual materials

These are the various alternatives present in the sidebar of the MainPage

- Production Details

- Peak Values

- Upload

- Logout

Each alternative has it's very own usefulness

Production Details tab shows the charts for the month to month creation information for Raw materials Loading materials and Production materials

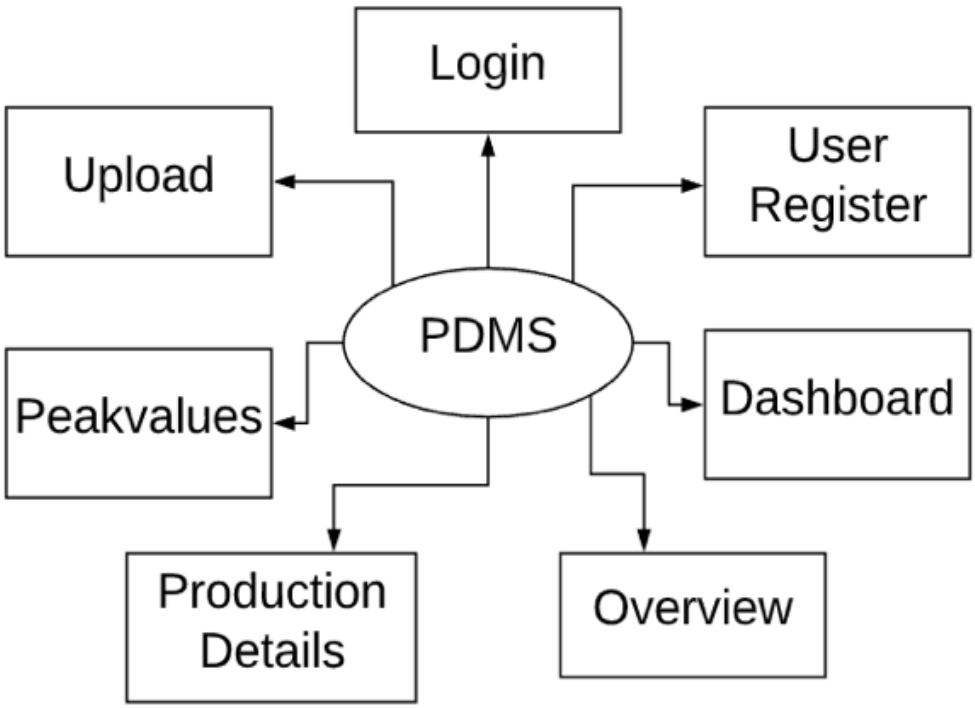
Peak Values tab shows explicit information between specific dates

Upload tab is utilized to transfer new information into the database and logout is utilized to. logout from the session

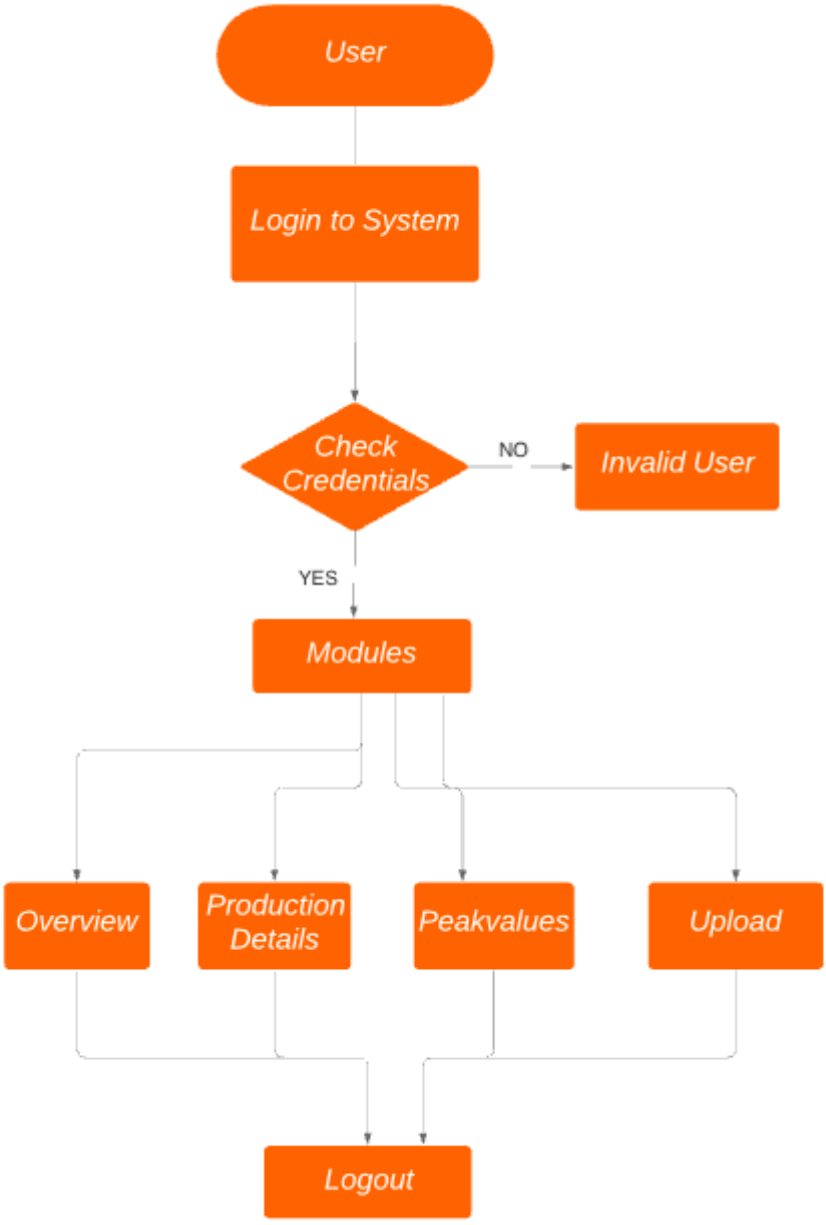
FLOW DIAGRAM

Data flow diagrams are one of the three essential perspectives of the structured-systems analysis and design method SSADM. The sponsor of a project and the end users will need to be briefed and consulted throughout all stages of a system's evolution. With a data flow diagram, users are able to visualize how the system will operate, what the system will accomplish, and how the system will be implemented. The old system's dataflow diagrams can be drawn up and compared with the new system's data flow diagrams to draw comparisons to implement a more efficient system. Data flow diagrams can be used to provide the end user with a physical idea of where the data they input ultimately has an effect upon the structure of the whole system from order to dispatch to report. How any system is developed can be determined through a data flow diagram model.In the course of developing a set of *leveled* data flow diagrams the analyst/designer is forced to address how the system may be decomposed into component sub-systems, and to identify the transaction data in the data model.

Model :



Flow Diagram:

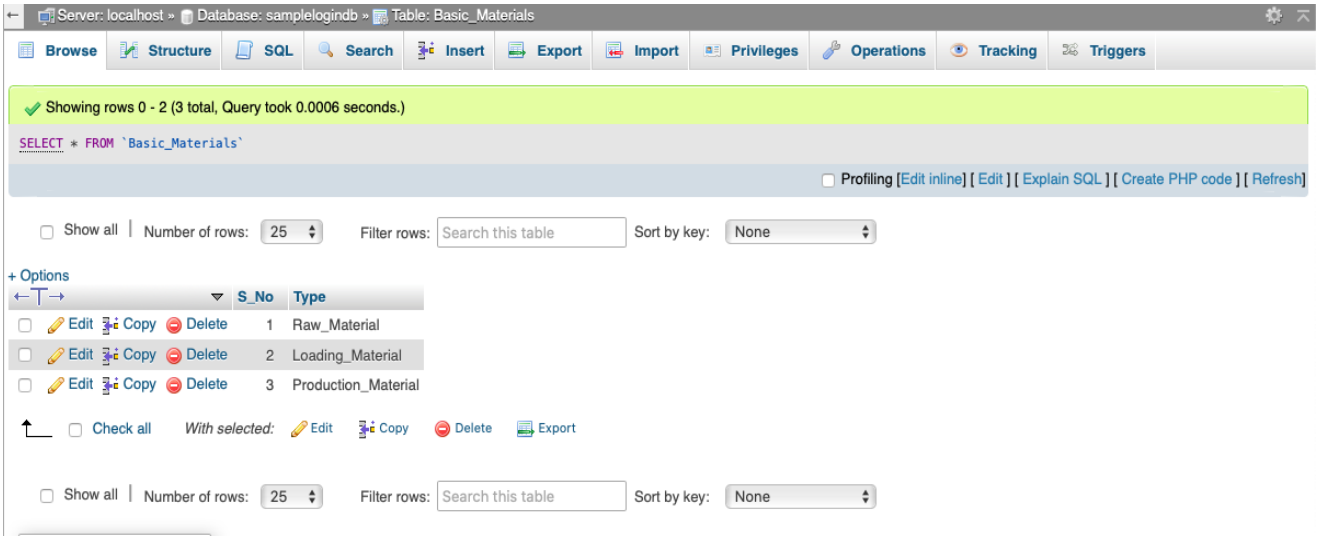


DATABASE DESIGN

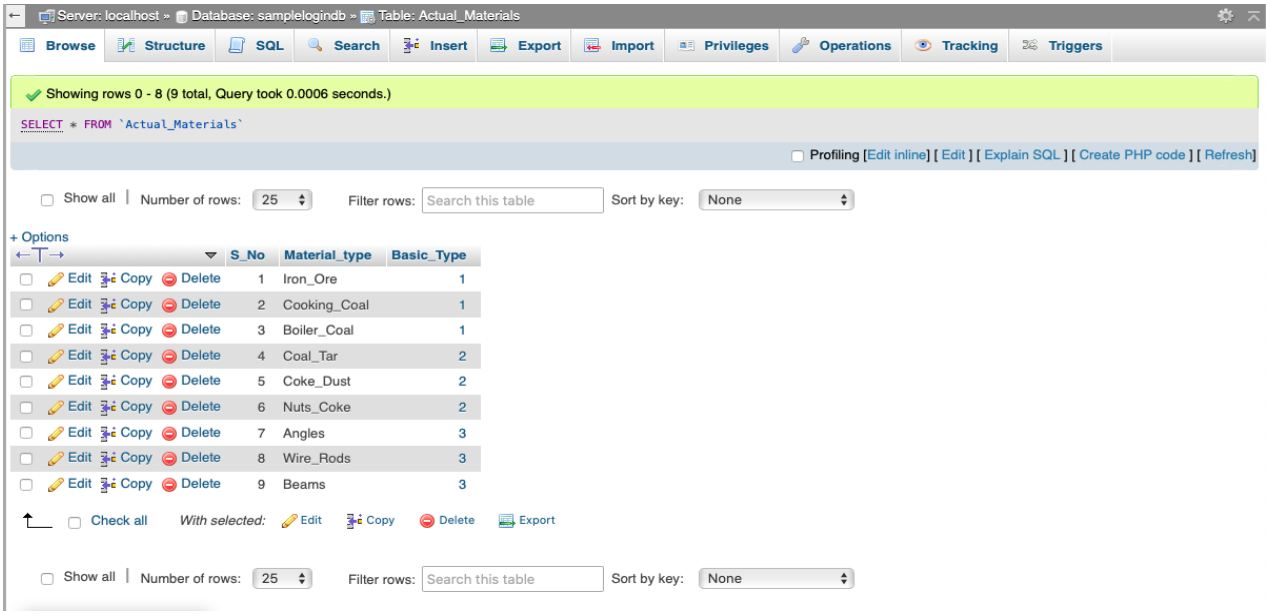
The accompanying Tables present the Database

- Basic_Materials
- Actual_Materials
- Materials_Data
- userinfotable

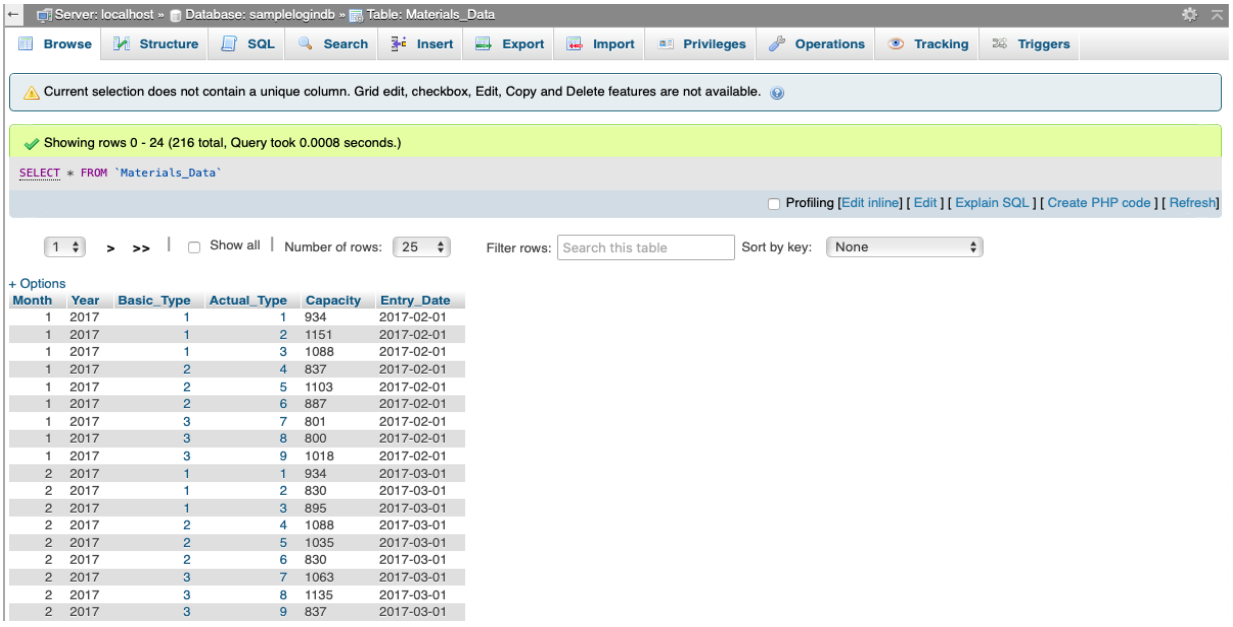
Basic Materials Table:



Actual Materials Table:



Materials Data:



Relational View:

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	S_No	int(1)			No	None			Change Drop More
2	Material_type	varchar(13)	utf8_general_ci		Yes	NULL			Change Drop More
3	Basic_Type	int(1)			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after Basic_Type Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	S_No	9	A	No	
Edit Drop	Basic_Type	BTREE	No	No	Basic_Type	9	A	Yes	

Actual Materials Table

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Month	int(2)			Yes	NULL			Change Drop More
2	Year	int(4)			Yes	NULL			Change Drop More
3	Basic_Type	int(1)			Yes	NULL			Change Drop More
4	Actual_Type	int(1)			Yes	NULL			Change Drop More
5	Capacity	varchar(10)	utf8_general_ci		Yes	NULL			Change Drop More
6	Entry_Date	date			No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

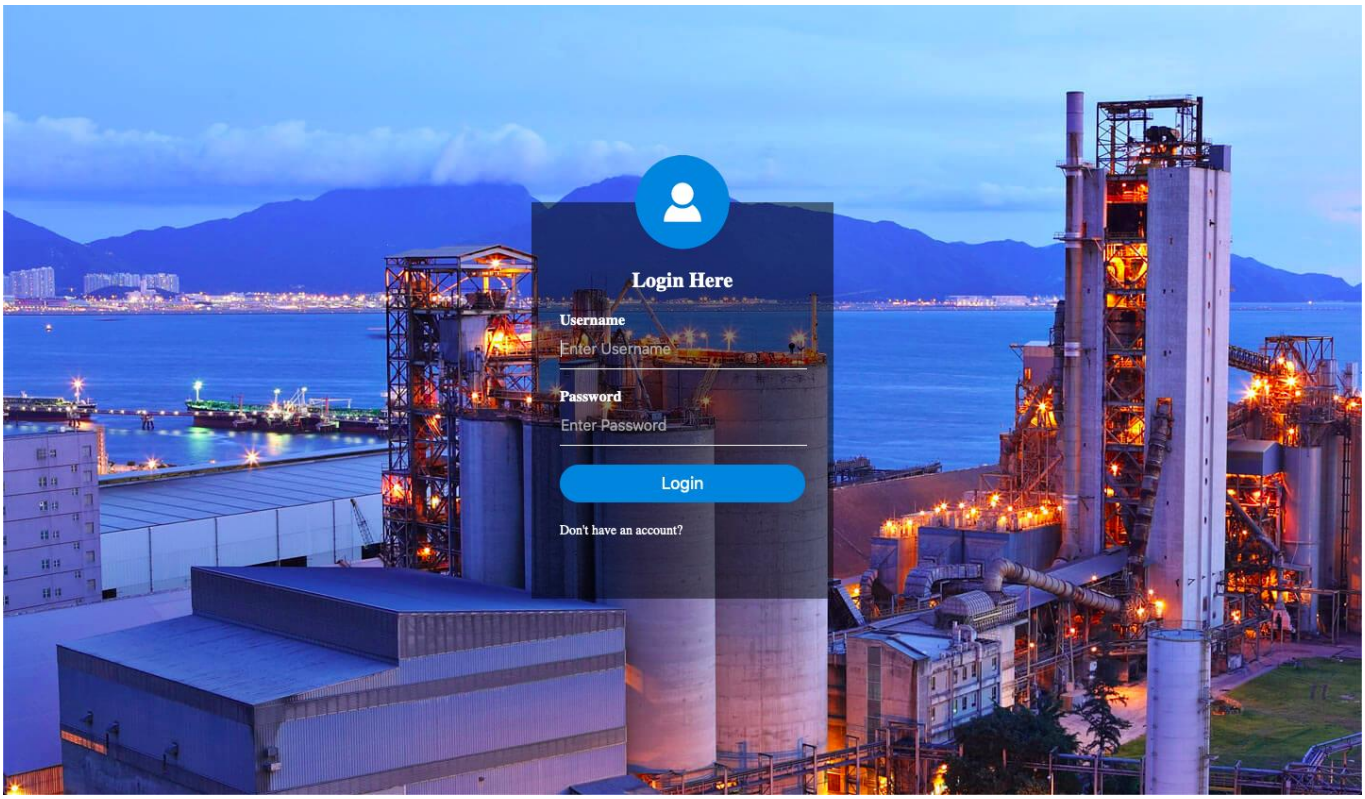
Add 1 column(s) after Entry_Date Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	Basic_Type	BTREE	No	No	Basic_Type	6	A	Yes	
					Actual_Type	18	A	Yes	
Edit Drop	Actual_Type	BTREE	No	No	Actual_Type	18	A	Yes	

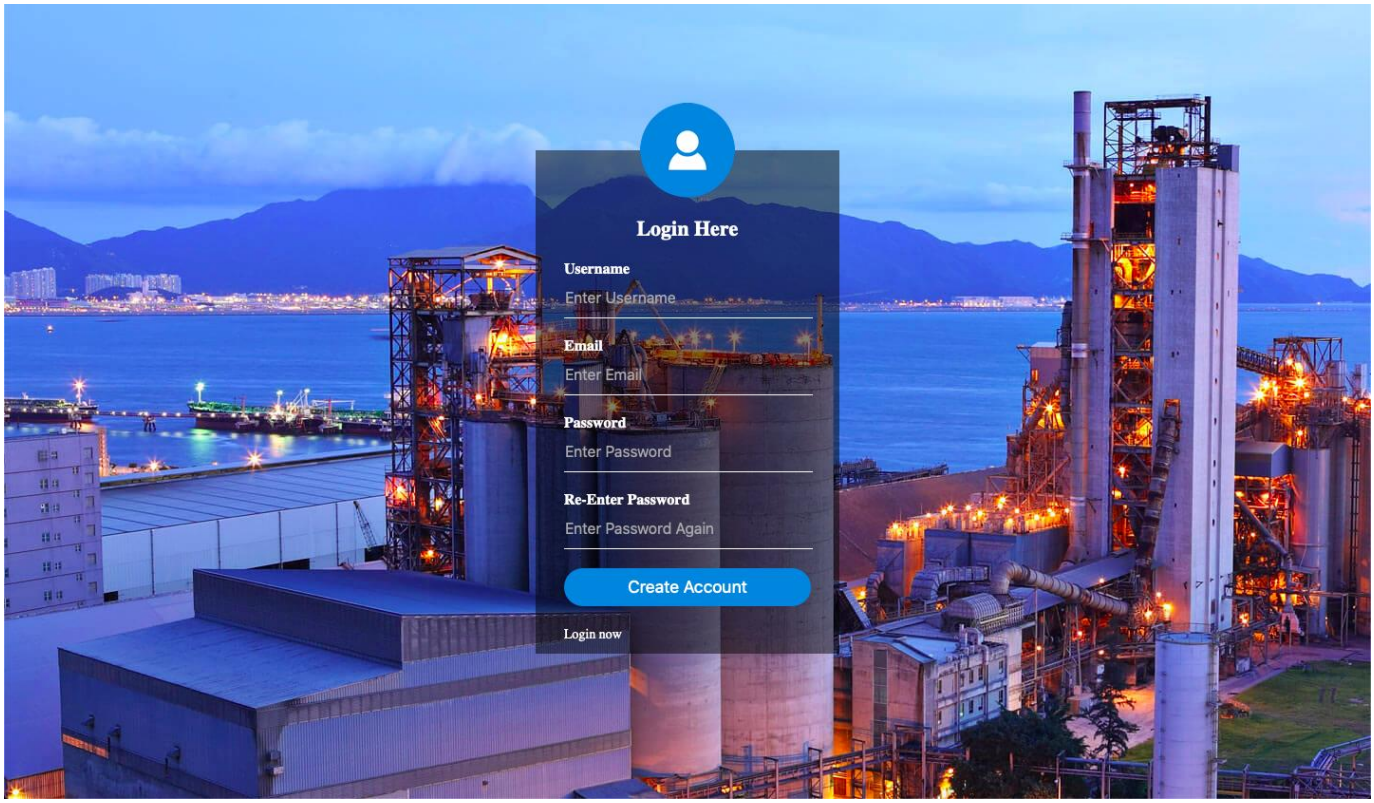
Actual Materials Table

LIST OF FIGURES



Login page:

Regiser User:



LIST OF ABBREVIATIONS

Keywords used in our project:

- HTML - Hyper Text Markup Language.
- CSS - Cascading Style Sheets
- PHP - Personal Home Page
- SQL - Structured Query language
- JSP - Java Server Pages
- Hight Charts. - Hight Charts Interactive Java Script Charts
- Ajax - Asynchronous JavaScript and XML
- JSON - JavaScript Object Notation

CONCLUSION

The project entitled " ***Production Data Management System*****"** has been effectively designed and developed to analyze and it was successfully concluded by meeting the requirements specified by the software requirements document. After careful verification and validation procedures, it has been confirmed that it satisfies its user and system requirements.

Making the whole system extremely user-friendly and efficient application development makes the system easy for the end-user to work with. The project is also well documented so that if the user wants any help about how the system is designed and implemented, he can look back.

The aim behind the development of **PDMS** is to help '**Visakhapatnam Steel Plant**' employees in more efficient and well-organized manner for accessing VSP Production details .Keeping this aim in mind, utmost care was taken at every stage, to develop effective system.