

1. Modifying the product category page in ERP web application by adding two more fields, product category's description and product category's image, while adding any new product category these fields are to be filled and it will be used to dynamically display the product category along with its information on the user-side website. The image that is uploaded for the product category will be automatically moved to the website's image folder through which the rest of the images for the product category are being displayed on the website. Also, the option for editing the existing information about any product category is provided. (16IT073)

Product Categories [Home](#) / [Product Categories](#)

List of Product Categories

Category	Status	Edit	Disable
Coal Mining Applications	ENABLED	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Energy Transmission	ENABLED	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Machinery Operating Equipments	ENABLED	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Metal Mining Applications	ENABLED	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Add New Product Category

Product Category Name

Description

Product Category Image

Fig 16.1 Modified Product Category Page

Server: 127.0.0.1 » Database: corporateplus » Table: product_category

Showing rows 0 - 3 (4 total, Query took 0.0016 seconds.)

`SELECT * FROM `product_category``


Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	product_category_id	category_name	category_image	category_description	active
<input type="checkbox"/> Edit Copy Delete	1	Energy Transmission	ETS.jpg	Our Company's Energy Transmission products range i...	1
<input type="checkbox"/> Edit Copy Delete	2	Machinery Operating Equipments	MOE.jpg	Our Company's Machinery Operating Equipments range...	1
<input type="checkbox"/> Edit Copy Delete	3	Coal Mining Applications	CMA.jpg	Our Company's Coal Mining Application products ran...	1
<input type="checkbox"/> Edit Copy Delete	4	Metal Mining Applications	MMA.jpg	Our Company's Metal Mining Application products ra...	1

Check all | With selected: Edit Copy Delete Export

Fig 16.2 Modified Database table (product_category)



Category Name

Coal Mining Applications

Description

Our Company's Coal Mining Application products range includes 901 Loading Dumper, 901 Loading Dumping Low Height, 789Q LoadHaul Dumper, 890 CoalApp Dumper, 900 Side Dumper, 920 Side Dumper, Drill Machine and many others.

☒ Status : Enable?

Save

Fig 16.3 Editing the information related to existing product category

2. Modifying the website to make the display of product categories in the system dynamically on the website along with it's related information. For this the navigation bar on the home page is also altered by firing a query to display the product category names under the drop down of products and they are fetched from the product_category table. Also, the products page which displays the information about the various product category is made dynamic by execution of query that will fetch the product category name and image from the database. For removing the redundancy, instead of different pages for each product category only one single page called productCategory is created which shall display the products information related to that particular category. For this a session variable is created, so whenever any user clicks on any desired product category the session variable will store the product category id and it will be passed on the productCategory page where the information and products related to that particular category will be displayed. (16IT073)

Category	Status	Enable/Disable
Coal Mining Applications	ENABLED	
Energy Transmission	ENABLED	
Machinery Operating Equipments	ENABLED	
Metal Mining Applications	ENABLED	

Add New Product Category

Product Category Name

Product Category Description

Product Category Picture

Fig 16.4 Adding new product category in the system

Product Categories

List of Product Categories			Search	Q
Category	Status	Enable/Disable		
Coal Mining Applications	ENABLED			
Energy Transmission	ENABLED			
Machinery Operating Equipments	ENABLED			
Metal Mining Applications	ENABLED			
Test	ENABLED			

Fig 16.5 New product Category (Test) added successfully

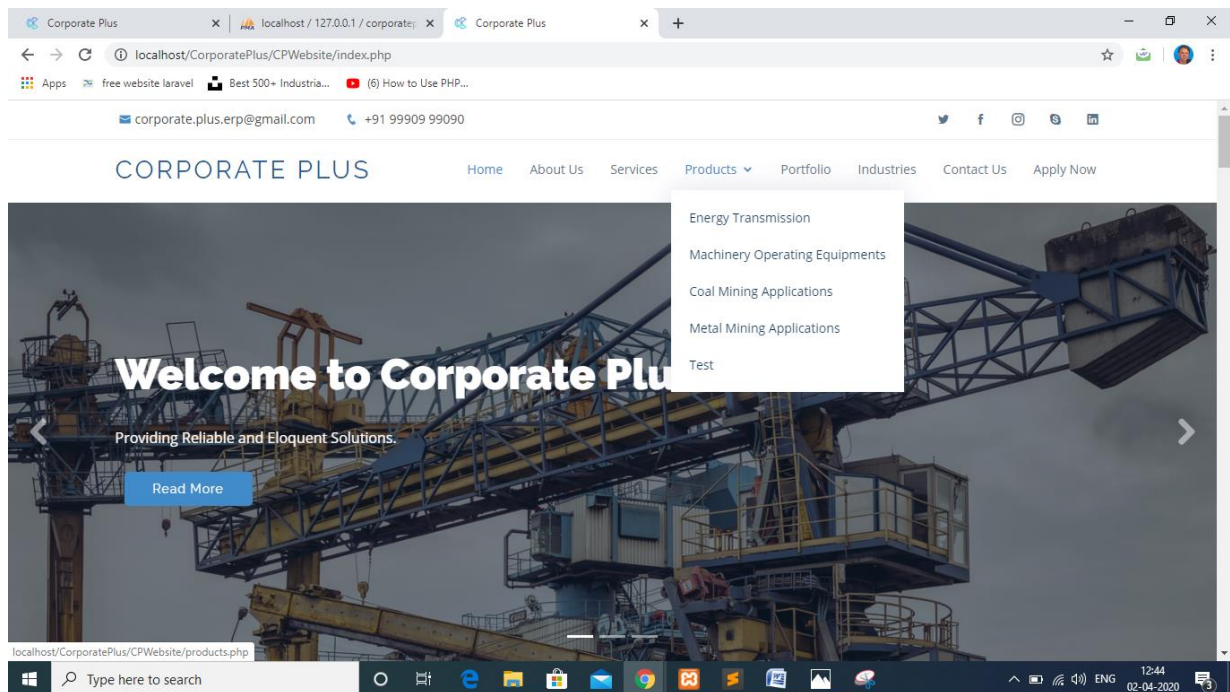


Fig 16.6 New product Category (Test) added successfully to the products dropdown list

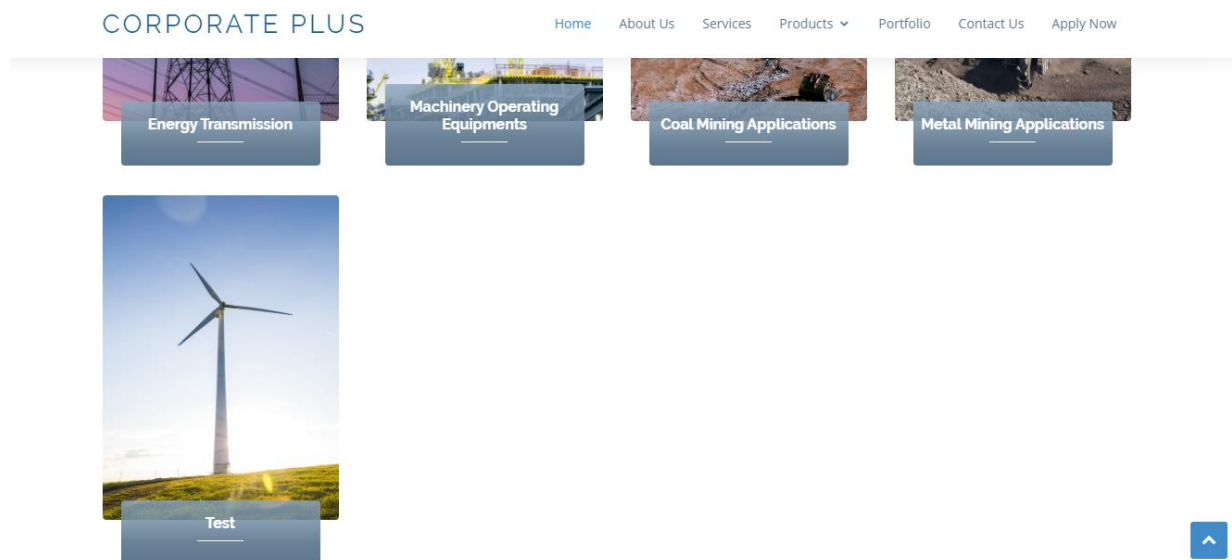


Fig 16.7 New product Category (Test) displayed on the products page

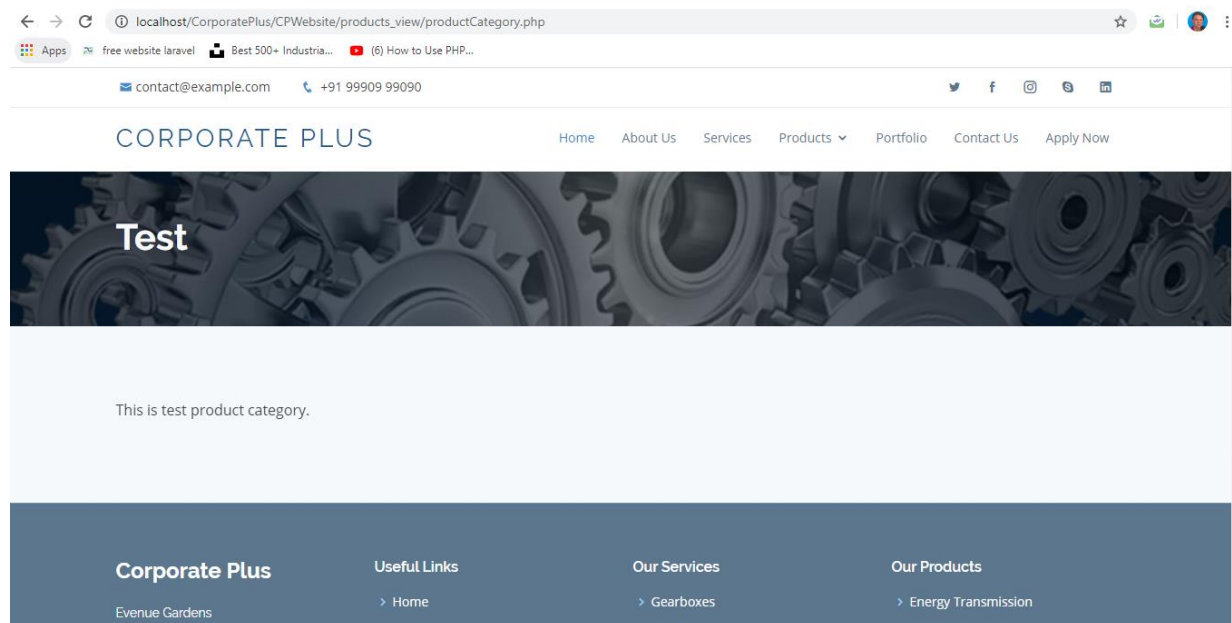


Fig 16.8 New product Category's page with title and description (no products are added for this this category)

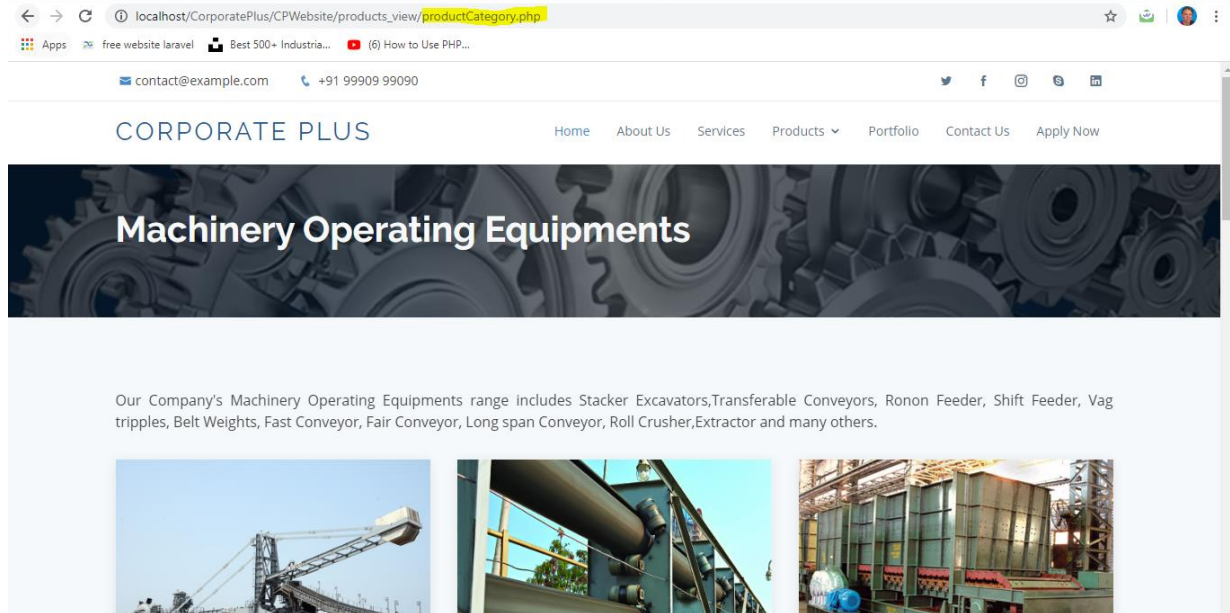


Fig 16.9 productCategory page displays the information related to any product category under one page itself instead of individual pages for each category

3. Designing the industry category page which allows the respective user to add any new industry along with fields like industry image, industry description. Also, all the entries made in the database table industry_category are fetched by firing query and are displayed on the page with allowing the options to enable or disable any particular industry. If user wants to disable any industry then it will be checked whether that particular industry has any product linked or not, if not then only the option for disabling the industry category will function. (16IT073)

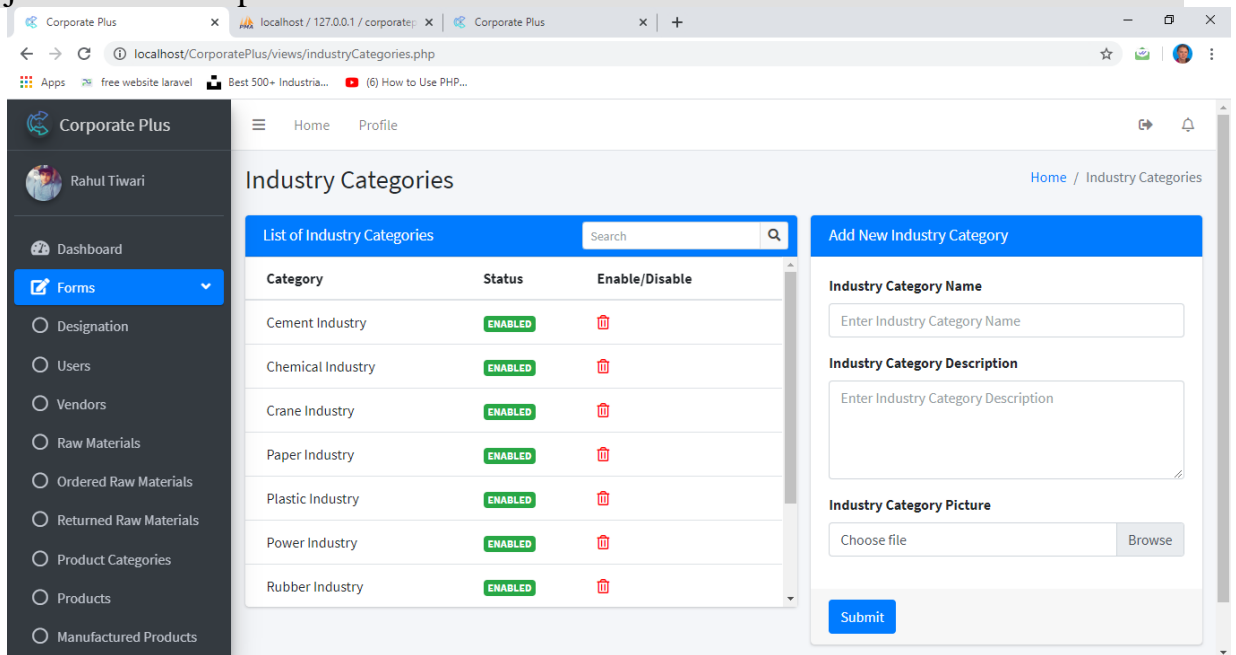


Fig 16.10 Industry Category Page

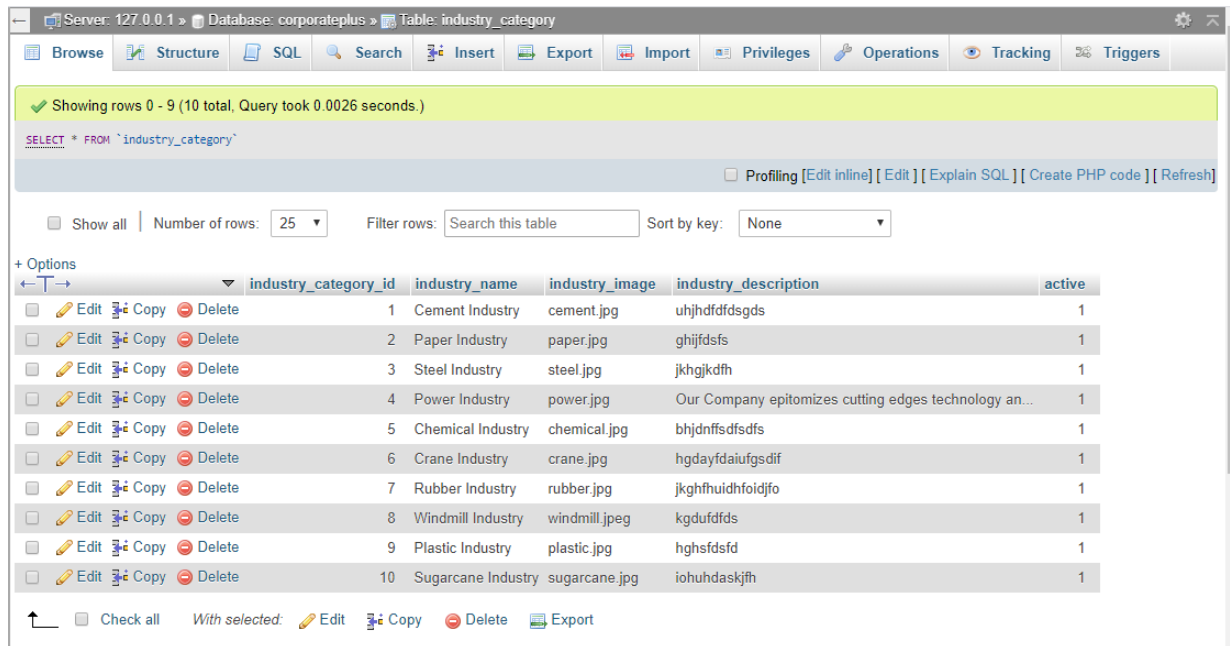
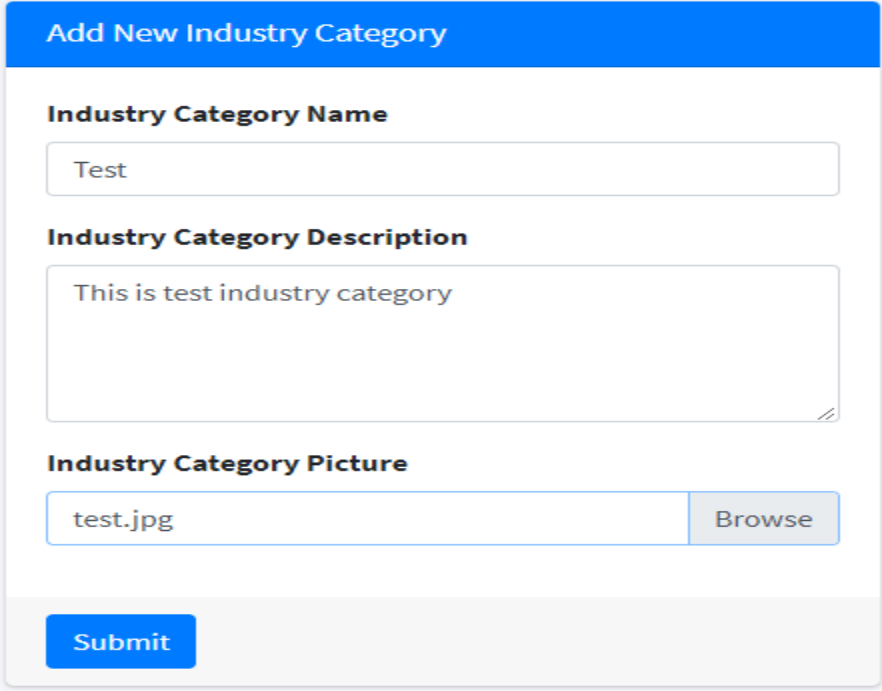


Fig 16.11 industry_category table

4. Designing new page “industries” which gives an overview of what significance industries have and how they are related with the company. Also, all the industry category present in the system are fetched from the industry_category table from the database and are displayed on the industry, Now just like the products page instead of creating individual pages for each industry category a page called industryCategoryInfo.php is created which dynamically displays information about any industry category in which the site user has shown interest, this is done by passing the industry_category_id in the session variable which will be passed to the industryCategoryInfo page from there the industry_category_id will be fetched and the information (name, image and description) about that industry category will be displayed on that particular page. (16IT073)



Add New Industry Category

Industry Category Name

Test

Industry Category Description

This is test industry category

Industry Category Picture

test.jpg Browse

Submit

Fig 16.12 Adding new industry category

Industry Categories













List of Industry Categories			Search <input type="text"/>
Category	Status	Enable/Disable	
Plastic Industry	ENABLED		
Power Industry	ENABLED		
Rubber Industry	ENABLED		
Steel Industry	ENABLED		
Sugarcane Industry	ENABLED		
Test	ENABLED		
Windmill Industry	ENABLED		

Fig 16.13 New category added

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INDUSTRIES

Overview

The products manufactured by our company plays a vital role in variety of industries by having the applications in that particular industry. This page displays the categories of industry whose products are manufactured and are provided by our company. Selecting any particular industry will provide information about how our company is related with that particular industry by the means of products we sell.

For the analysis, a set of product-level characteristics is identified and organized into categories, which include functionality, architecture, external interactions, user interactions, and cost. Based on their innovation award citations, the products are analyzed with respect to the set of characteristics, and results are tabulated.

Fig 16.14 Industries page

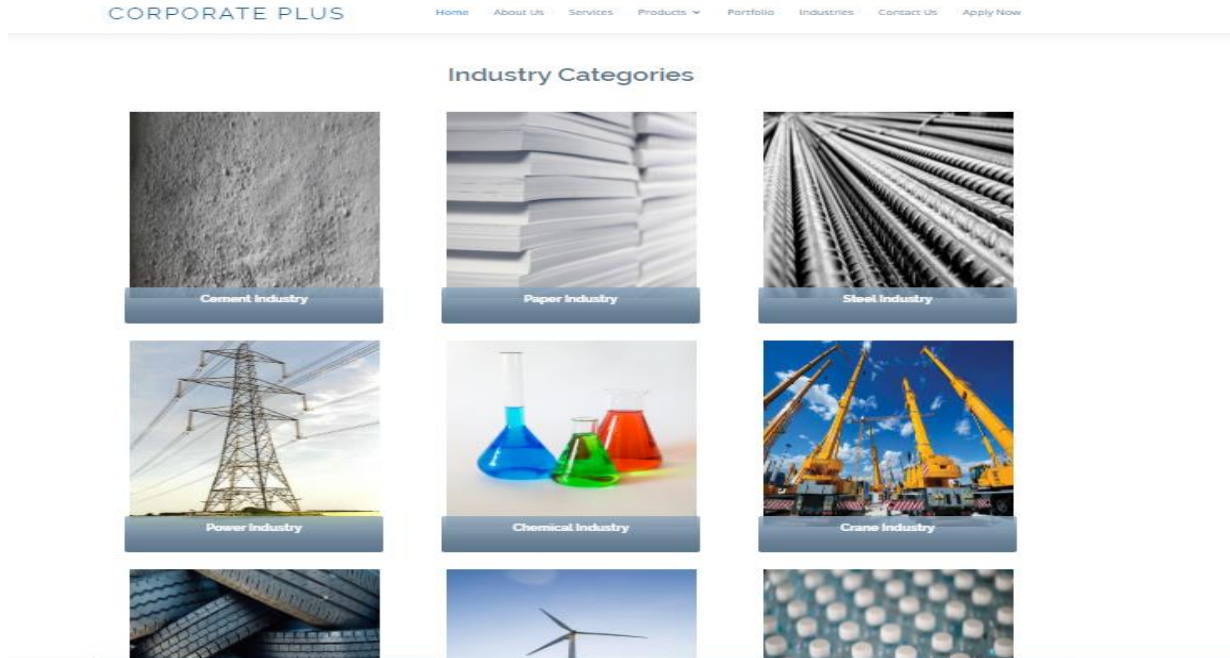


Fig 16.15.1 Industry Categories

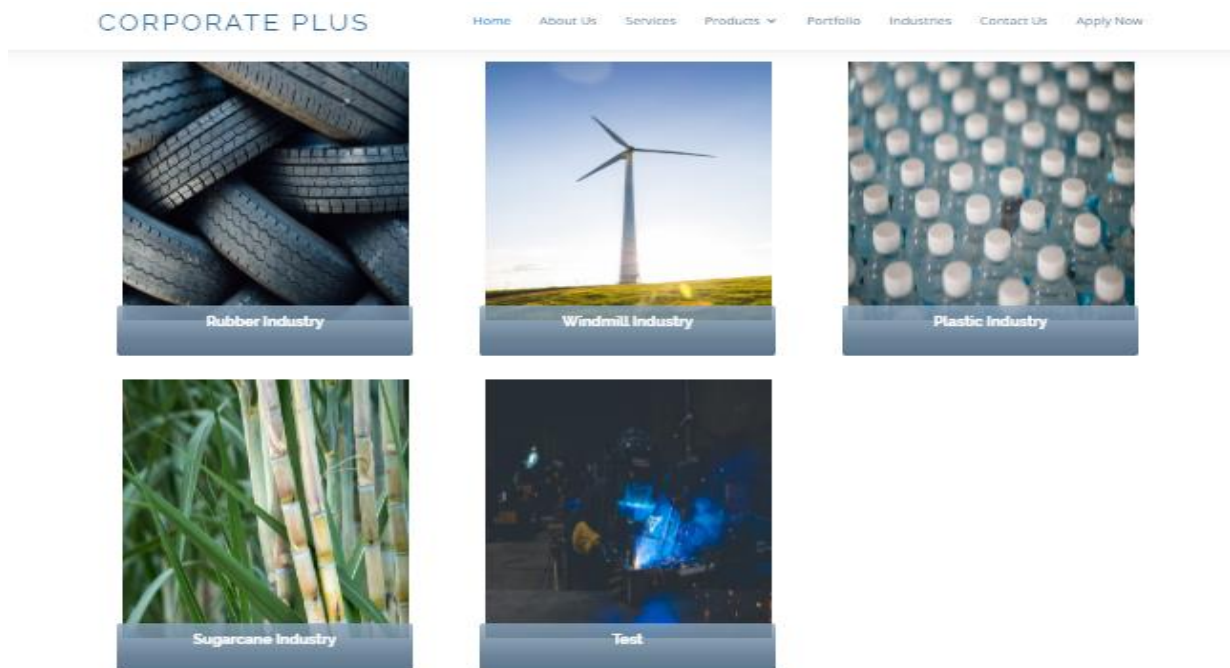


Fig 16.15.2 Industry Categories (with newly added category)

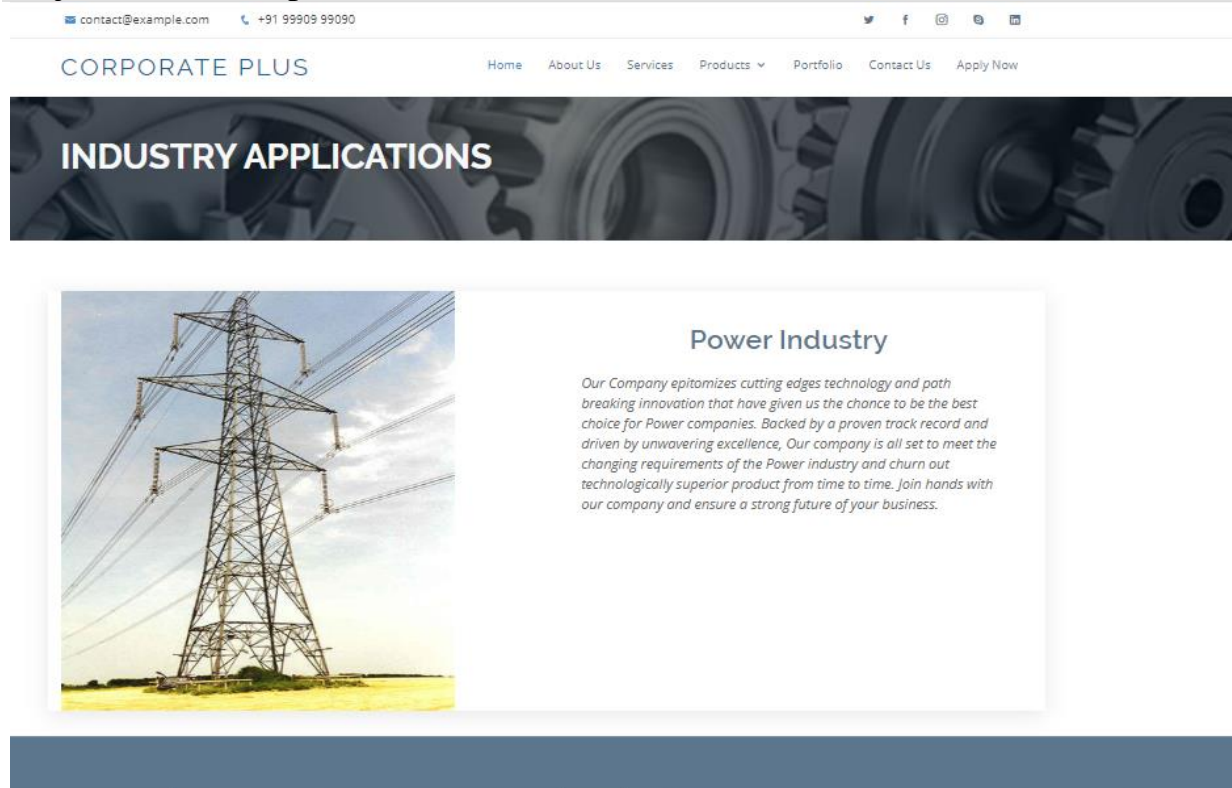


Fig 16.16 Power Industry (example)

5. Worked on the dashboard page, i.e. the home page of the system. Firstly, 4 colorful boxes were provided at the top providing crucial data of the system like Active Users, Unique Products, Manufactured products and Sales; which are fetched dynamically using appropriate database query. Also concerning icons are used with moving effect to provide attractive look. Further, links are provided below each box, which will lead to pages corresponding to those information in the box, if user has been given the access to those pages. (16IT139)

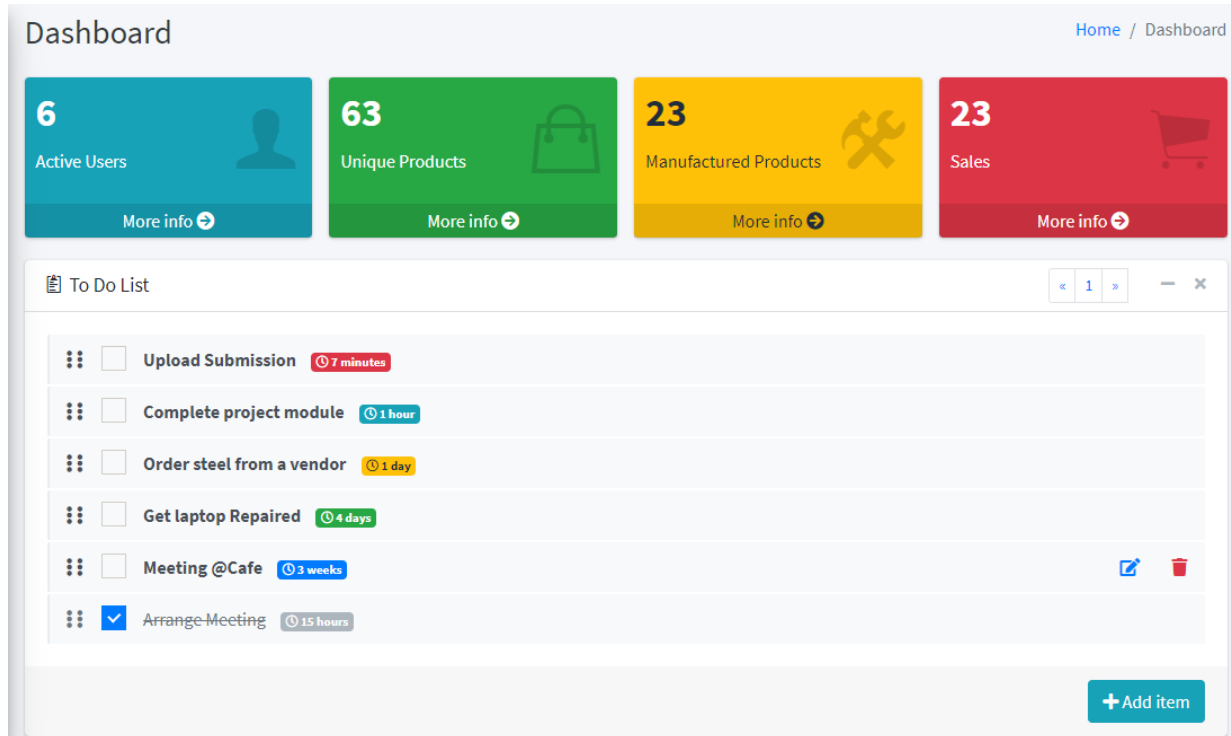


Fig 16.17 Dashboard (data boxes and to-do list)

A very useful feature called 'To Do List' has been designed. Here, user can add anything they want to put in their to-do list. A separate table was created in database to handle this feature. It consists of information like whose list-record is it, what is to be done, what is the deadline (timestamp) and is it already done or not. (16IT139)

SELECT * FROM `to_do`

Profiling [Edit inli]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: Nor

Options	to_do_id	user_id	data	deadline	done
<input type="checkbox"/> Edit Copy Delete	8	1	Arrange Meeting	2020-04-03 10:30:00	1
<input type="checkbox"/> Edit Copy Delete	10	1	Order steel from a vendor	2020-04-04 11:30:00	0
<input type="checkbox"/> Edit Copy Delete	11	1	Meeting @Cafe	2020-04-25 18:30:00	0
<input type="checkbox"/> Edit Copy Delete	12	1	Get laptop Repaired	2020-04-07 18:00:00	0
<input type="checkbox"/> Edit Copy Delete	13	1	Complete project module	2020-04-02 19:59:00	0
<input type="checkbox"/> Edit Copy Delete	14	1	Upload Submission	2020-04-02 19:00:00	0

Fig 16.18 'to_do' database table

Display of this list is very attractive. All entries are kept in a way that the work with closest deadline is at the top. Work already done goes down the list. Each entry has a checkbox, to-do information and a badge guiding how much time is left to the deadline. This badge changes its colour from green towards red as the deadline comes closer, including many other colours. A user defined function was created to find the deadline time remaining from the timestamp in the database. Similarly, other user defined function was created to get the badge colour according to the deadline. Work already done has its checkbox checked and the text along with deadline badge gets inactive, colourless and crossed with a line, emphasizing on the fact that the work is already done. Once a checkbox is checked, this box can't be unchecked. This feature is provided using `preventDefault()` function of jQuery. Also pagination is provided so that, when the list gets too long, it would not go all the way down to the main page, instead it will get divided into pages each with max 6 entries.

A button is provided which will add new items to the list. Clicking it will result into popping-up of a modal with fields like To do, deadline date and deadline time. Timepicker of bootstrap is used for selecting deadline time to give fancy look. Clicking add button will add the entry to the database and would refresh the, so the changes could be reflected in the list. (16IT139)

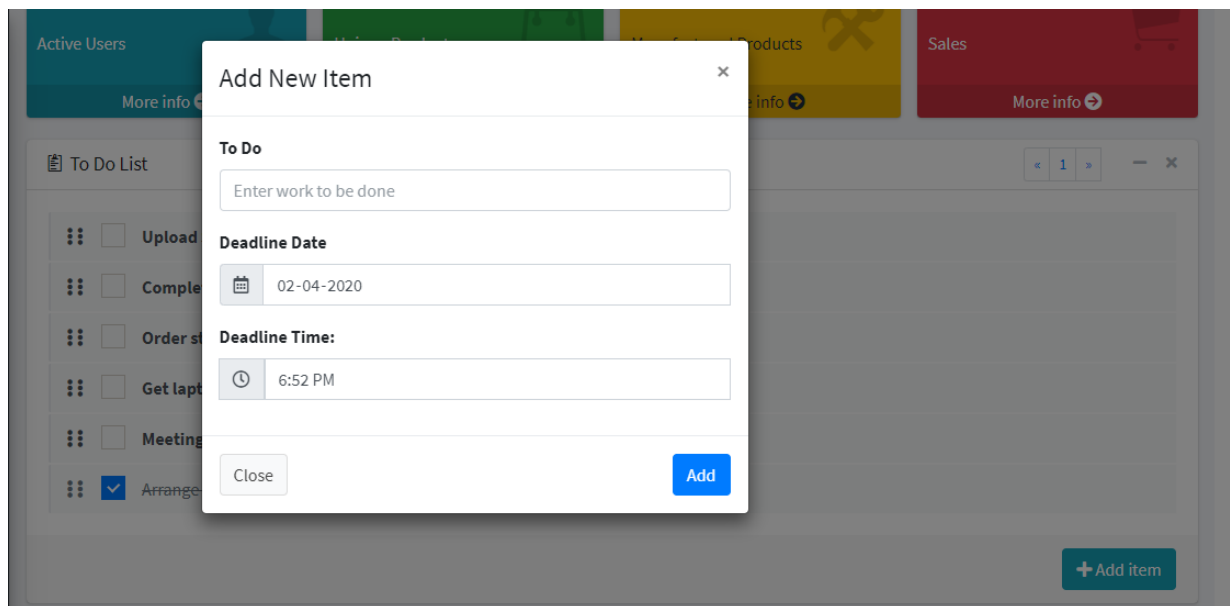


Fig 16.19 Add New Item in the To Do List (modal)

Also attractive icons to edit and delete the entry are provided with cool animation, which only get visible on hovering on an entry. Delete button will completely delete the entry. Edit button will lead to a modal getting popped up with the task corresponding to the entry having that button and it's deadline. One can edit them all and click save button to make changes updated. (16IT139)

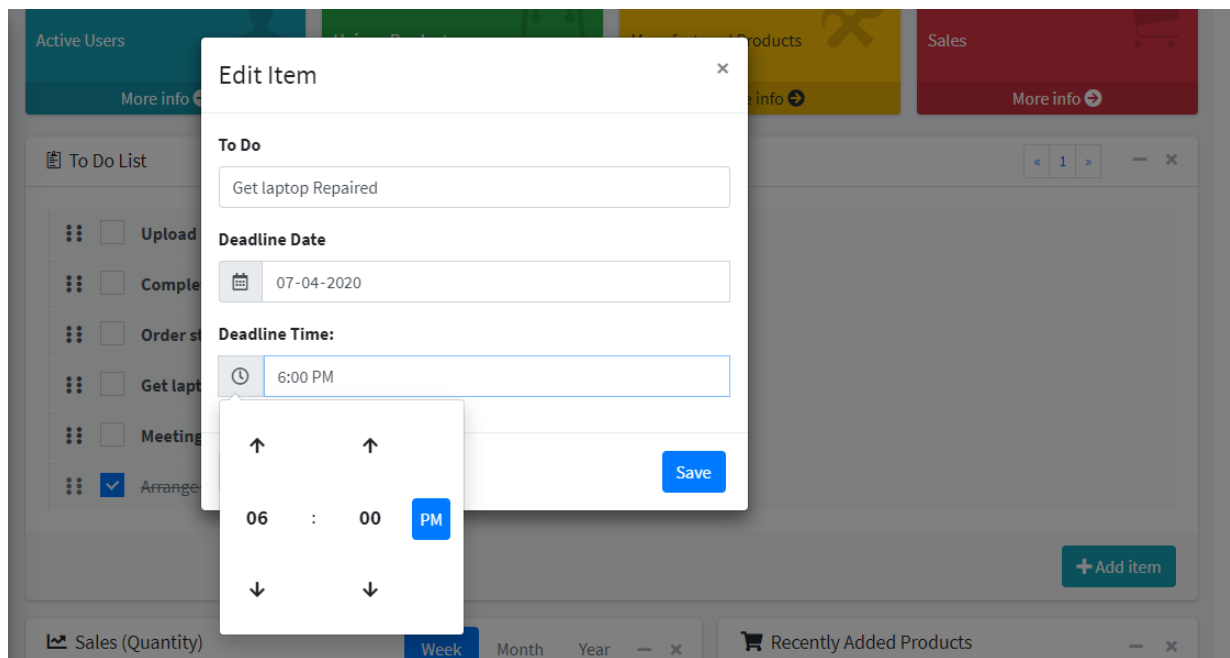


Fig 16.20 Edit Item in the To Do List (modal)

6. A component called 'Sales (Quantity)' was designed. It has provides continuous graphs which gives great visualization of the quantity of the product sold. Graphs are plotted using ChartJS plugin. It has 3 tabs on the top namely Week, Month and Year

Week tab will show 2 graphs simultaneously with different colours, one with the data of current week and other with the last week. Hence comparison of sales with previous week become an easy. Challenging task here was to get the total quantity of products sold each day in the current and last week, from the raw data in database. So firstly an array of dates was generated from Monday of this month, till the current date. Similarly other array of dates having dates from last week's Monday to Sunday. Now, foreach loop was iterated on both these arrays and inside it queries were fired to get total quantity of sold products on those particular days. Then those data was given to to generate this dynamic graph. (16IT139)

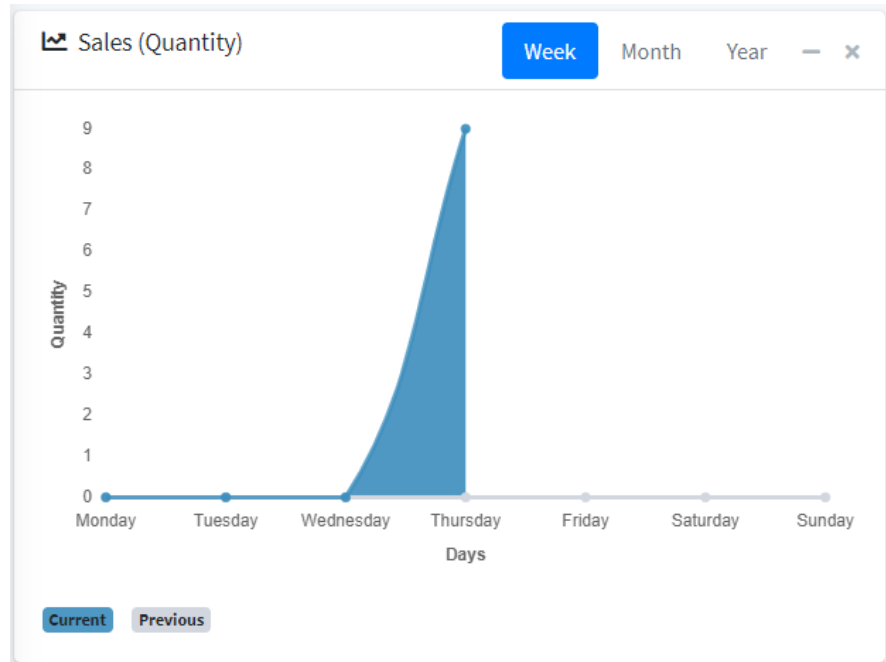


Fig 16.21 Sales (Quantity) Graph - Week

In a similar way, Month tab depicts the data of the current and previous month. Here we make arrays of dates of entire months, instead of week. Rest remains same as the Week graphs. (16IT139)

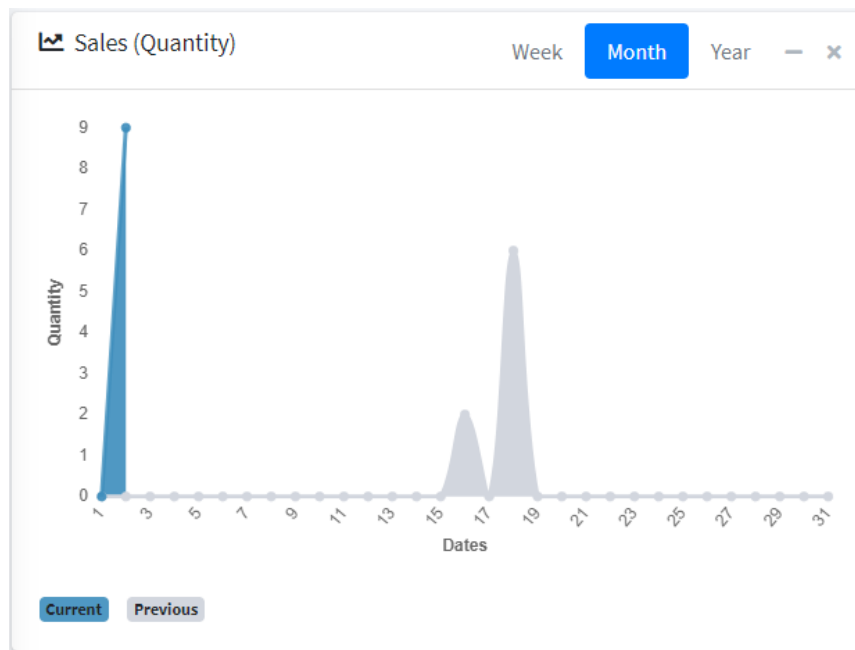


Fig 16.22 Sales (Quantity) Graph - Month

The Year tab visualizes 2 graphs of current and last year sales. Here, to get these data-points, firstly, a for loop was iterated from 1(Jan) to 12 (Dec) for last month and 1(Jan) to current month number for currentmonth data-points; and inside the loop complex sql queries were written using functions like SUM() and DATE_FORMAT() and GROUP BY operations to get total sale quantities of the entire month of the asked year (current or last). Finally this data is provided for graph generation. (16IT139)

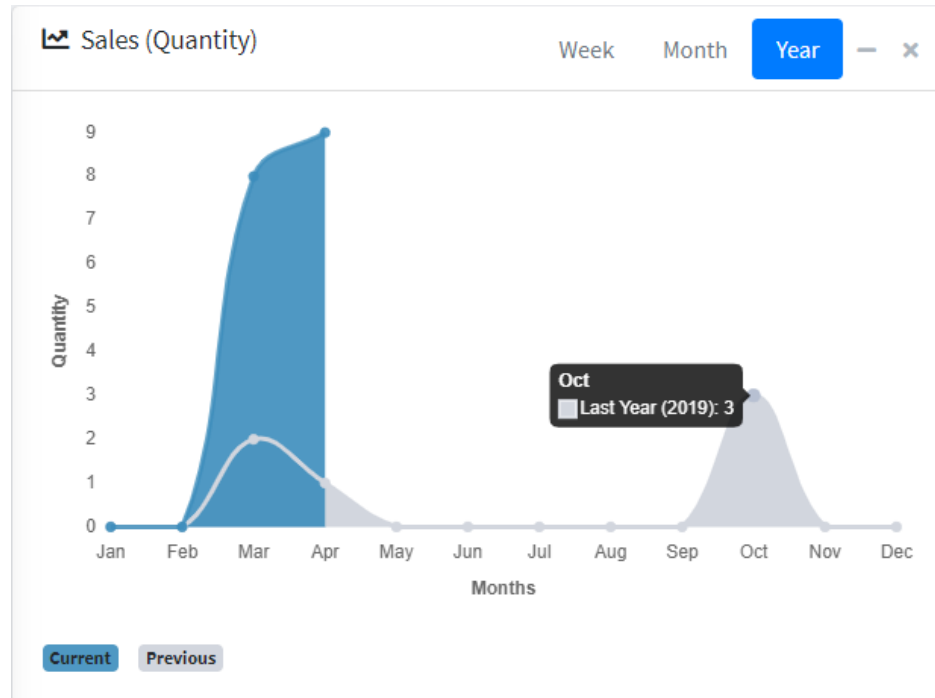


Fig 16.23 Sales (Quantity) Graph - Year

7. Another component, 'Recently Added Products' was added, which will show last 4 (latest) products added in the system along with its name, description, cost as well as image, all in a fancy manner. A link is provided at the end which will redirect to products page if access is granted. (16IT139)

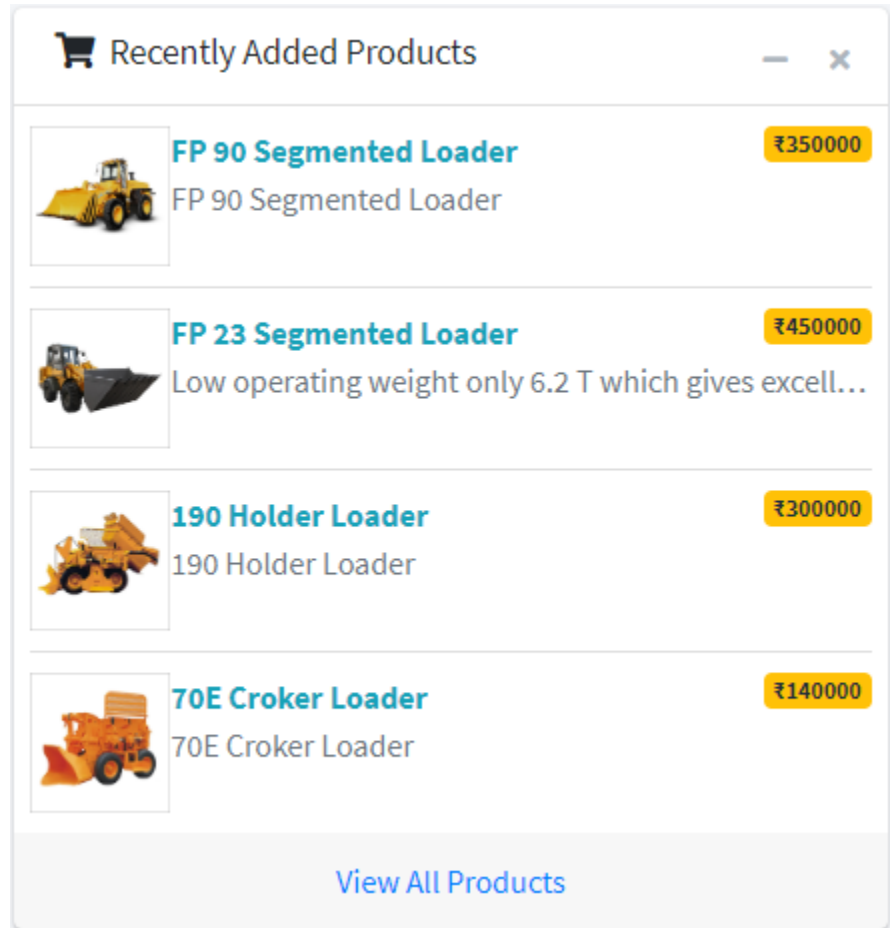


Fig 16.24 Recently Added Products card

8. A bar-graph for Active Users was designed, which shows the number of active users in all the designations. To achieve this, firstly an array of all the designations, in a sorted form was declared using sql query. Now this array was iterated using foreach loop, and total users in each designation was calculated using SQL function COUNT(). Hence, the data was provided to create the graph and the array of designations for the x-axis of the graph. (16IT139)

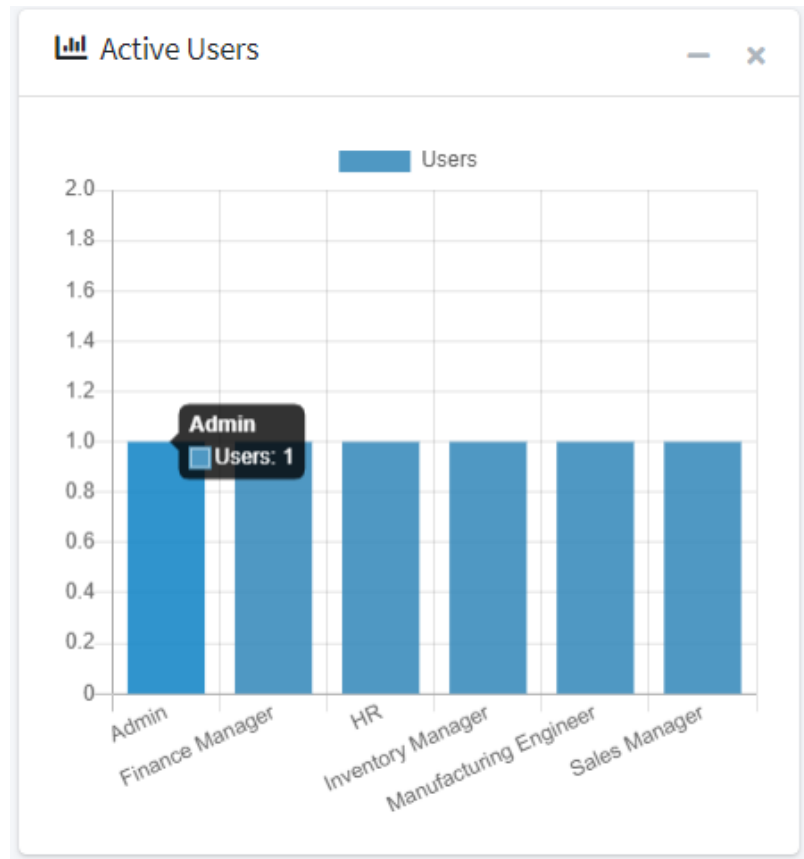
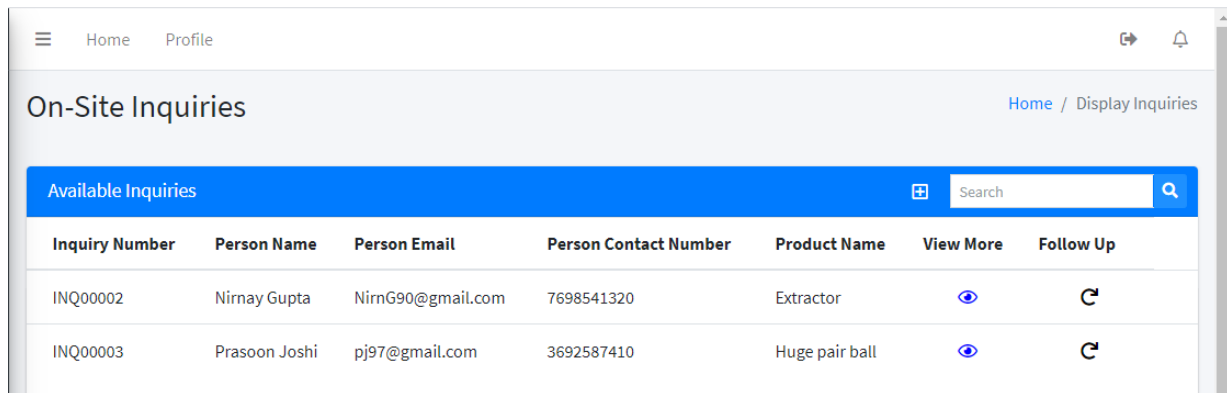


Fig 16.25 Active Users (Designation-wise) bar-chart

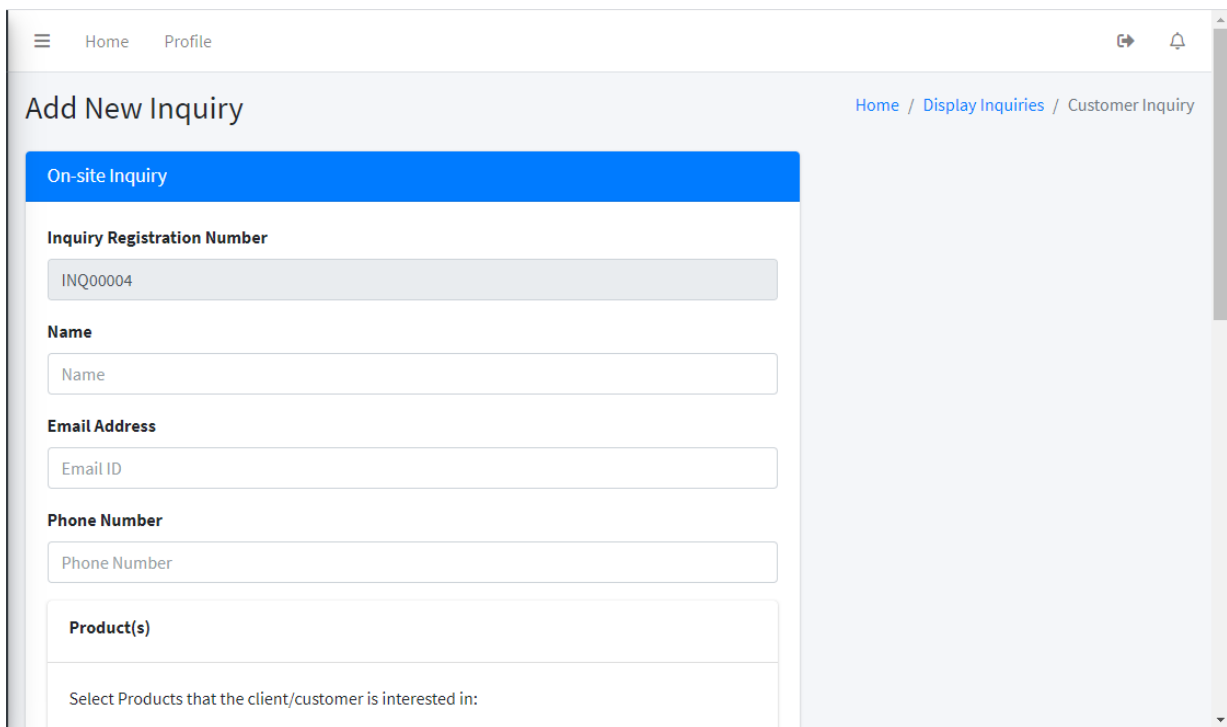
9. Redesigned the page of On-site inquiries where a list of inquiries is displayed and a new inquiry can be added from a single page. Previously, the module of On-site Inquiries had 3 pages being shown in the left navigation panel which made the list of pages longer in the navigation panel. Thus, to make it look better and easily accessible to a user, only 1 page, 'Display Inquiries' is shown in the left navigation panel and all other pages related to On-site Inquiry can be reached through this very page.

As seen on the page, there is a list of available On-Site Inquiries. Now, if a user wants to add a new inquiry then they can add it by opening a page 'Customer Inquiry' which can be reached on clicking the square-plus icon displayed on the top right corner of the page. Also, whole schema of the table 'onsite_inquiry' is changed for a better performance. (16IT013)



Available Inquiries						
Inquiry Number	Person Name	Person Email	Person Contact Number	Product Name	View More	Follow Up
INQ00002	Nirnay Gupta	NirnG90@gmail.com	7698541320	Extractor		
INQ00003	Prasoon Joshi	pj97@gmail.com	3692587410	Huge pair ball		

Fig 16.26 Display Inquiries Page



Add New Inquiry

Home / Display Inquiries / Customer Inquiry

On-site Inquiry

Inquiry Registration Number

INQ00004

Name

Name

Email Address

Email ID

Phone Number

Phone Number

Product(s)

Select Products that the client/customer is interested in:

The screenshot shows the 'Add a New Inquiry' page. At the top, there is a header bar with the following information: Reporting No:13, Week No: 16, From: 30/03/20 to 03/04/20, Project ID:- PRJ/2020/IT/40, and Project Title: - Corporate Plus. Below the header, the main form area contains several sections: a dropdown menu for 'Extractor' with options 'FP 90 Segmented Loader' and 'Huge pair ball'; an 'Inquiry Date' field with a calendar icon and the date '04/02/2020'; a 'Comments on Inquiry' text area; a 'Need Follow Up?' toggle switch; a blue button labeled 'Follow Up Details'; a 'Follow Up Date' field with a calendar icon and the placeholder 'mm/dd/yyyy'; a 'Follow Up Reason' text area; and a blue 'Submit' button at the bottom. A sidebar on the right side of the page is currently empty.

Fig 16.27 Customer Inquiry (Add a New Inquiry) Page

10. Previously, there was no feature to display each detail of the inquiry saved on the system and the subsequent follow-ups taken for that inquiry. Thus, the page called 'Inquiry Description' is created which gives in-depth information related to an inquiry. This page can be accessed by clicking the 'eye' icon under View More column next to a inquiry on Display Inquires page (Fig. 16.26). The path of this page is Home/ Display Inquiries/ Inquiry Description. Here, there are 3 divisions of the page: Customer Details (which contains the details of the person who has requested an inquiry), Inquiry Summary (the details of the first inquiry taken) and Follow-Up Details (the details of subsequent follow-ups related to the inquiry).

Notice that the division of Follow-Up Details will display information only when follow-up of a particular inquiry is registered to the system, else it will display 'Follow Up Not Yet Taken' as shown in the image below (Fig. 16.28). (16IT013)

The screenshot displays the 'Inquiry Description' page. At the top, there is a navigation bar with 'Home' and 'Profile' links. Below this, the page title 'Inquiry Description' is shown, along with a breadcrumb trail: 'Home / Display Inquiries / Inquiry Description'. The main content area is divided into three sections: 'Customer Details', 'Inquiry Summary', and 'Follow Up Not Yet Taken'. The 'Customer Details' section contains fields for Name (Nirnay Gupta), Email (NirnG90@gmail.com), and Contact Number (7698541320). The 'Inquiry Summary' section contains fields for Inquiry Number (INQ00002), Product Name (Extractor), Inquiry Date (31 Mar, 2020), Inquiry Discussion (Summary) (Person wants to buy the product already.), Follow Up Needed? (No), Follow Up Date (NA), and Follow Up Reason (NA). The 'Follow Up Not Yet Taken' section is a blue bar with white text. At the bottom, there is a copyright notice: 'Copyright © 2020 Corporate +. All rights reserved.'

Customer Details		
Name	:	Nirnay Gupta
Email	:	NirnG90@gmail.com
Contact Number	:	7698541320

Inquiry Summary		
Inquiry Number	:	INQ00002
Product Name	:	Extractor
Inquiry Date	:	31 Mar, 2020
Inquiry Discussion (Summary)	:	Person wants to buy the product already.
Follow Up Needed?	:	No
Follow Up Date	:	NA
Follow Up Reason	:	NA

Follow Up Not Yet Taken

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Fig 16.28 Inquiry Description Page

11.Redesigned the 'Follow Up' Page for a better user-friendly experience. The Follow Up page can be accessed on clicking 'repeat' icon under Follow Up column (Fig. 16.26) corresponding to an inquiry. The page will have auto-filled data related to an inquiry with some new fields related to the follow-up. The path to this page is Home/ Display Inquiries/ Inquiry Follow Up.

Previously, the details of follow-up were saved in 'inquiry_allocate' table which is now changed to 'onsite_inquiry_follow_up' with a completely new schema. Also, there was no such way to display the details of each follow-up on the system (There was one on Confirmed Customers page but that has been removed as it will come under the Sales department). Thus,

the follow-up details of each inquiry are displayed in the Inquiry Description page corresponding to each inquiry. The updated Follow-Up page and the Follow-Up Details for an inquiry are displayed in the images 16.29 and 16.30 respectively. (16IT013)

Fig 16.29 Follow Up Page

Home
Profile

Inquiry Description
[Home](#) / [Display Inquiries](#) / Inquiry Description

Customer Details

Name	:	Prasoon Joshi
Email	:	pj97@gmail.com
Contact Number	:	3692587410

Inquiry Summary

Inquiry Number	:	INQ00003
Product Name	:	Huge pair ball
Inquiry Date	:	31 Mar, 2020
Inquiry Discussion (Summary)	:	test
Follow Up Needed?	:	Yes
Follow Up Date	:	23 Apr, 2020
Follow Up Reason	:	test2

Follow Up Details

Follow Up Discussion (Summary)	:	The customer is interested in buying the product.
Need Another Follow Up?	:	No
Next Follow Up Date	:	NA
Reason for Another Follow Up	:	NA

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Fig 16.30 Follow Up Details under Inquiry Description.