



**INDIAN INSTITUTE OF TECHNOLOGY MANDI**

**CS207 - APPLIED DATABASES PRACTICUM**

**PROJECT-NO: 18**

**HOUSEKEEPING INVENTORY**

**GROUP-14**

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## **ACKNOWLEDGEMENT**

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## **ABSTRACT**

Problem solution:

Housekeeping inventory refers to the stocks of purchased operating supplies, equipment and other items held for future use in housekeeping operations. Stock control of all the inventory items needs proper records and supervision by the housekeeping staff to avoid wastages, misuse and damages. The following is a web page that is helpful for such supervision.

Functional description:

- 1) Registration is offered. Then registered user logs into the site
- 2) The layout of our web page which contains feature of adding elements to database, displaying data and delete the data is displayed
- 3) Any of the above mentioned operations can be done with ease

Aim of the project:

- 1) creating a online housekeeping inventory website
- 2) Aesthetic user interface

Key features and scope of the project:

- 1) Providing user friendly web pages for better management
- 2) Implementation of HTML, CSS, PHP and Javascript

## **INTRODUCTION**

### **Executive summary:**

Our proposed project is a real time implementation of an inventory control system for housekeeping inventory management by the staff such that they can perform

- 1) Add the item in inventory
- 2) Edit the item's name, price, quantity of items imported and image
- 3) Sort the inventory with item's name, price and quantity
- 4) Search for a specific item in the inventory.
- 5) Delete the item in inventory

This project in specific applies to the domain of housekeeping inventory, but is flexible enough to be applied to many different domains such as restaurants, hotels etc.,.

In general, restaurant staff and managers are forced to keep track of inventory by hand. This means that they must count what they have sold and what they have left at the end of each day. They must also fill out order forms to be sent to vendors so that they can restock their inventory in preparation for the next week. This wastes valuable man hours manually in notes.

We propose a solution to this issue by developing a web site that keeps track of inventory in the “back of house”. These changes in inventory are kept track of through utilizing a database. We propose to keep track of each and every item by dynamically linking it to the ID of it and as a result create a dependent relationship to that item.

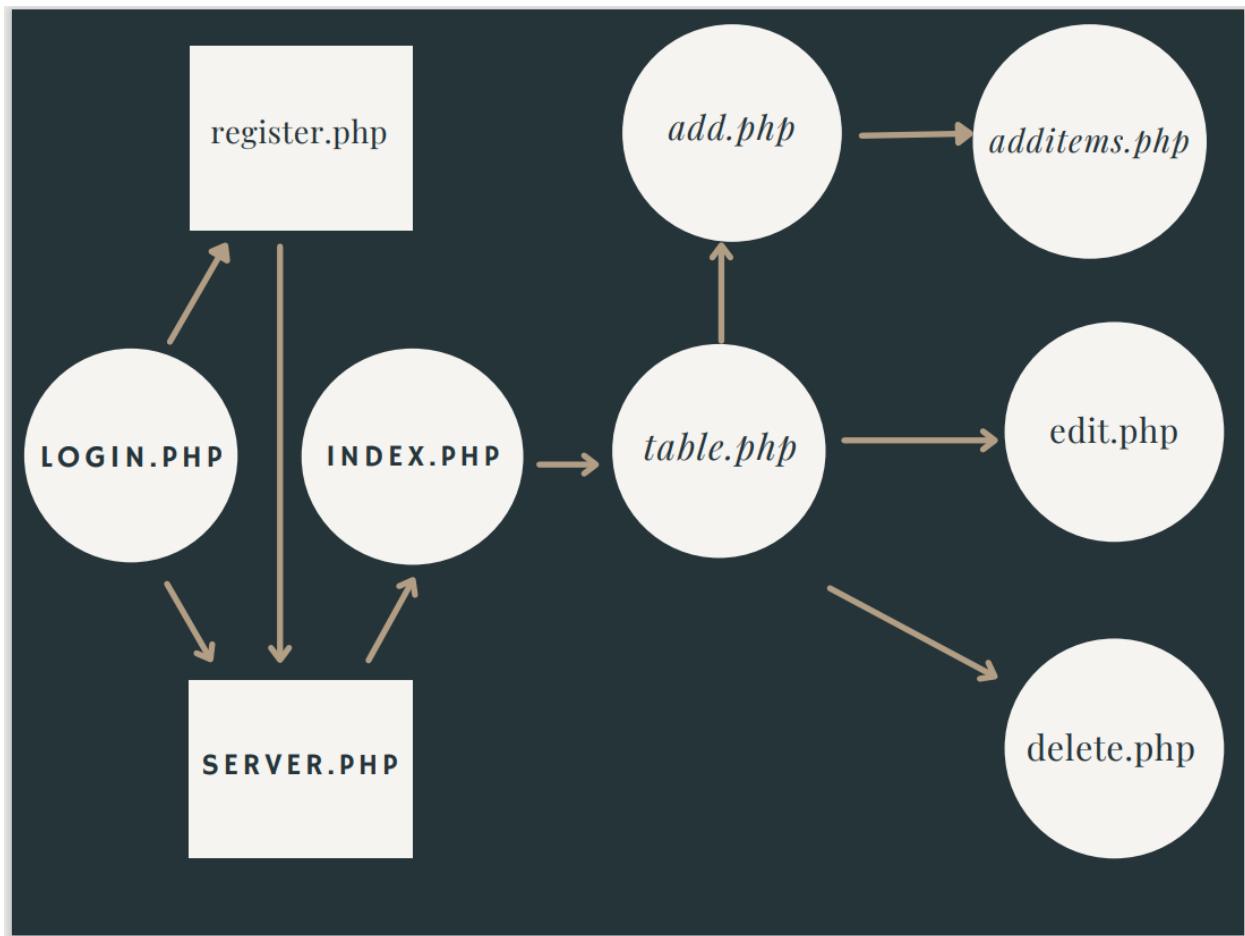
### **Goals of the project:**

The project aims at providing an efficient interface to the staff for managing their inventory based on each item sold. The basic idea involved here is that each item is linked to its ID which is stored in a database. At any instance, the user can add and delete the items from inventory and also can analyse the sale using sorting operation (on quantity), and edit the item's properties.

## METHODOLOGY

Flow chart of files while redirecting into other:

Driven path of files while staff uses the site is :-

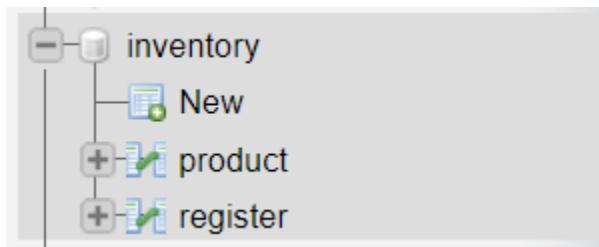


The files are related to each other in the way they are shown. This gives a clear picture of how the website is designed internally. If any issue will arise in future, then that can be fixed quickly looking at this flowchart.

It is very useful when any further improvements are needed in the website.

## RESULTS/OUTPUTS

### Database:



This contains the tables of data involved in this project: products and registered users.

### Details of registered staff members:

		username	first_name	last_name	mobile	email	password_1
<input type="checkbox"/>	Edit  Copy  Delete	akhil	Akhil	Dekharla	1234567895	B20091@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	Edit  Copy  Delete	bharat	Bharat	Kumar	1234567891	B20090@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	Edit  Copy  Delete	frpartho	Partho	Bala	1686998128	parthobala019@gmail.com	827ccb0eea8a706c4c34a16891f84e7b
<input type="checkbox"/>	Edit  Copy  Delete	goutham	Goutham	Sanditi	1234567892	B20130@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	Edit  Copy  Delete	mahesh	Mahesh	Reddy	1234567896	B20256@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	Edit  Copy  Delete	nikhil	Nikhil	Dhumale	1234567894	B20116@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	Edit  Copy  Delete	pavani	Pavani	Gutthula	1234567893	B20101@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad
<input type="checkbox"/>	Edit  Copy  Delete	sreesha	Sreesha	Pulipati	2147483647	B20119@students.iitmandi.ac.in	25d55ad283aa400af464c76d713c07ad

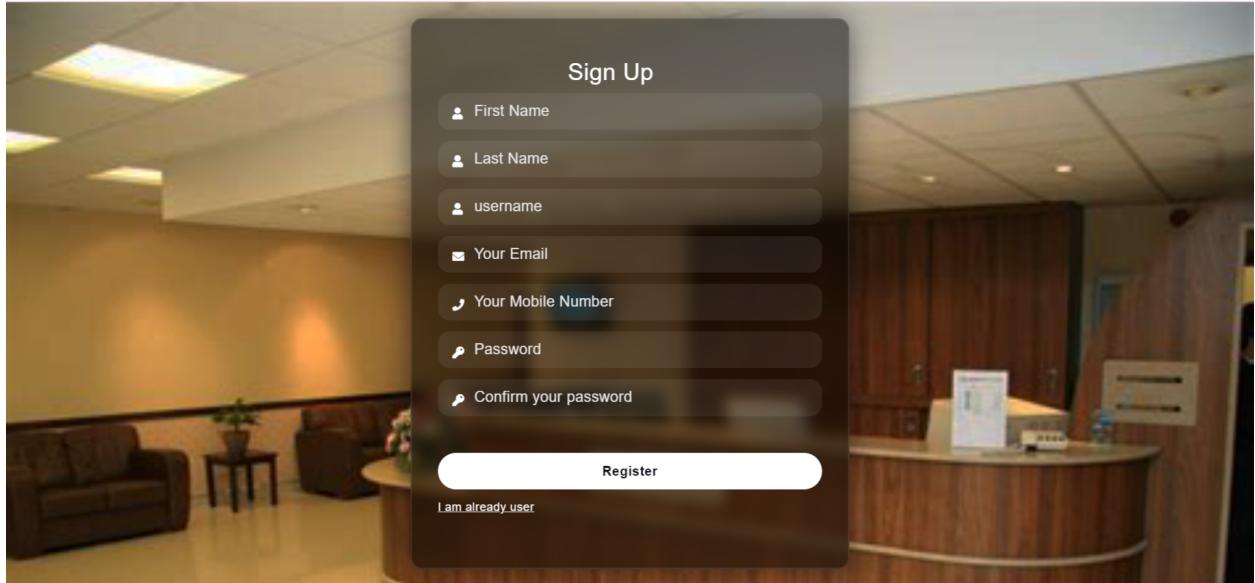
All the details of the staff members will be visible to the owner in this manner. Even he/she can remove any user and then that user won't be able to add/edit any items as the login details will be invalid if tried.

## Details of products and their stocks:

			product_id	product_name	price	quantity	images
<input type="checkbox"/>	 Edit	 Copy	 Delete				
26	floor wiper	370	16	[BLOB - 101.0 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
27	blanket	560	30	[BLOB - 789.9 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
28	Clock	440	10	[BLOB - 494.7 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
29	dust bin	230	40	[BLOB - 307.8 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
30	dust pan and broom set	324	30	[BLOB - 255.6 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
31	telephone	768	24	[BLOB - 231.5 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
33	spoon set	278	20	[BLOB - 109.8 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
34	coffee maker	1010	6	[BLOB - 42.9 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
35	hand towel	367	48	[BLOB - 35.1 KiB]			
<input type="checkbox"/>	 Edit	 Copy	 Delete				
36	microwave	3567	4	[BLOB - 103.1 KiB]			

The owner can directly access the items' details from the different tables present in the database. He/She can do any operation on the items added by the staff.

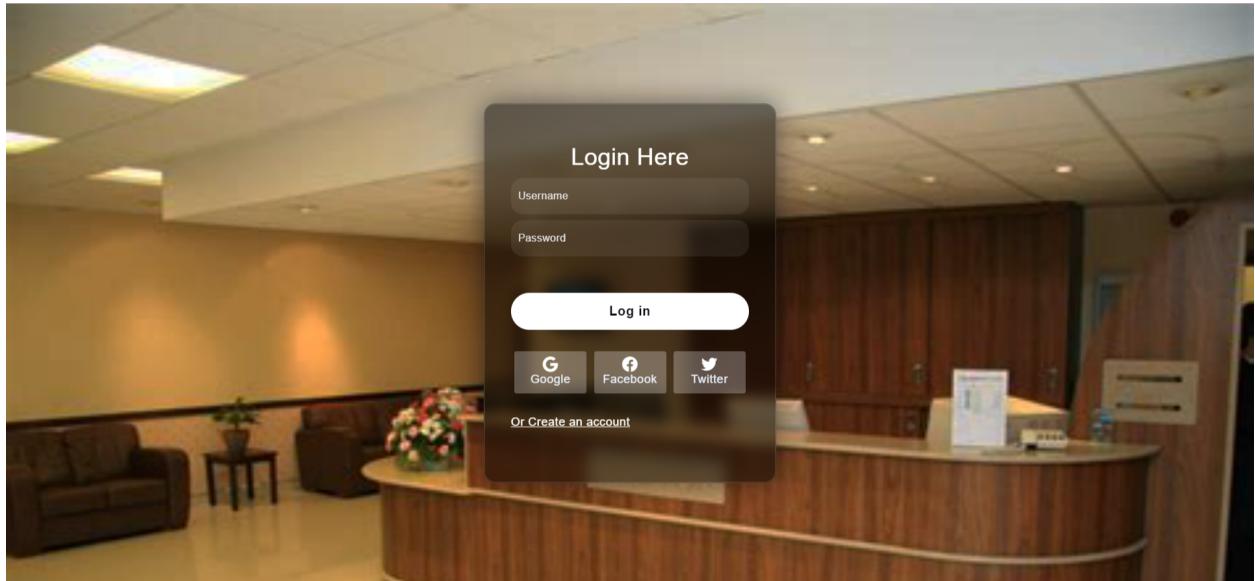
## **Sign Up page for new users:**



This comes from the “index.php” file which will take you to the login page and then click on “Or Create an account”. The user is supposed to fill all the details here correctly to become an eligible user.

If the user has already registered , then the user can click “I am already registered” to login to their account.

## **Login page for registered users:**



The registered user after entering the correct details here will move to the home page of housekeeping Inventory.

After coming to this page if the user realises that he/she has not already registered, then “Or Create an account” is displayed for them which will take them to the previous page.

## Components of the Website:

### i.) List of added items

Items in stock					
ID	Name	Price	Quantity	Image	Action
1	blanket	560	30		<a href="#">Edit</a>   <a href="#">Delete</a>
2	Clock	440	10		<a href="#">Edit</a>   <a href="#">Delete</a>
3	dust bin	230	40		<a href="#">Edit</a>   <a href="#">Delete</a>

Items in stock					
ID	Name	Price	Quantity	Image	Action
4	dust pan and broom set	324	30		<a href="#">Edit</a>   <a href="#">Delete</a>
5	telephone	768	24		<a href="#">Edit</a>   <a href="#">Delete</a>
6	spoon set	278	20		<a href="#">Edit</a>   <a href="#">Delete</a>
7	coffee maker	1010	6		<a href="#">Edit</a>   <a href="#">Delete</a>
8	hand towel	367	48		<a href="#">Edit</a>   <a href="#">Delete</a>

A list of items will be displayed which contains the items present in stock.

The list of all the items which are already present in the database along with the newly added items will be displayed immediately after adding the items.

## ii.) Adding items

The screenshot shows a web-based inventory management system. At the top, there is a yellow header bar with the title "Housekeeping Inventory". Below the header, there are navigation links for "Home" and "Add Items", and a user profile icon labeled "USER". A search bar is also present in the header area. The main content area has two sections: a "Add Item Here" form and a "Items in stock" table. The "Add Item Here" form contains fields for "ADD IMAGE", "Item name", "Price", and "Quantity", followed by a large orange "ADD ITEM" button. The "Items in stock" table has columns for ID, Name, Price, Quantity, Image, and Action. It lists one item: "blanket" with ID 1, Price 560, and Quantity 30. An image of a blue blanket is shown in the "Image" column, and an "Edit | Delete" link is in the "Action" column. A search bar and a magnifying glass icon are located at the top right of the table section.

New items can be added by clicking the “Add items” link in the nav bar. It will open an add items page where users can add the items.

### iii.) Editing the entered items

The screenshot shows a web-based inventory management system. At the top, there's a yellow header bar with the title "Housekeeping Inventory", navigation links for "Home" and "Add Items", and a user profile icon. Below the header, a modal window titled "Edit Item Here" is open. It contains fields for "Name" (set to "blanket"), "Price" (set to "560"), and "Quantity" (set to "30"). There are buttons for "EDIT IMAGE" (orange), "Edit Records" (yellow), and a close button. In the background, a table titled "Items in stock" lists one item: "blanket" with ID 1, Price 560, and Quantity 30. The table includes columns for ID, Name, Price, Quantity, Image (showing a folded blanket), and Action (with a link to "Edit | Delete"). A search bar is also visible at the top of the main content area.

The quantity, price and name of the product can be changed from here. Once all the details are updated accordingly, click on the “Edit Records” button. The updated list of items will be displayed immediately.

#### iv.) Sorting

By name:

Items in stock					
ID	Name	Price	Quantity	Image	Action
1	blanket	560	30		<a href="#">Edit   Delete</a>
2	Clock	440	10		<a href="#">Edit   Delete</a>
7	coffee maker	1010	6		<a href="#">Edit   Delete</a>
3	dust bin	230	40		<a href="#">Edit   Delete</a>

By price:

Items in stock					
ID	Name	Price	Quantity	Image	Action
3	dust bin	230	40		<a href="#">Edit   Delete</a>
6	spoon set	278	20		<a href="#">Edit   Delete</a>
4	dust pan and broom set	324	30		<a href="#">Edit   Delete</a>
8	hand towel	367	48		<a href="#">Edit   Delete</a>

By quantity:

Items in stock					
ID	Name	Price	Quantity	Image	Action
9	microwave	3567	4		<a href="#">Edit</a>   <a href="#">Delete</a>
7	coffee maker	1010	6		<a href="#">Edit</a>   <a href="#">Delete</a>
2	Clock	440	10		<a href="#">Edit</a>   <a href="#">Delete</a>
10	floor wiper	370	16		<a href="#">Edit</a>   <a href="#">Delete</a>

This feature will help when we have a very large number of items and we want to get some quick insights of items. This will make our task easier.

We can fetch data in sorted order by clicking on the arrow besides the items' categories. Sorting is done in both ascending and descending order according to the categories which we want like by name, price and quantity.

## v.) Search bar

Items in stock					
ID	Name	Price	Quantity	Image	Action
3	dust bin	230	40		<a href="#">Edit   Delete</a>
4	dust pan and broom set	324	30		<a href="#">Edit   Delete</a>

A search bar is provided in the table to find a specific item in the table. As the user starts typing the results will be displayed.

## vi.) Logging out

Housekeeping Inventory					
Items in stock					
ID	Name	Price	Quantity	Image	Action
1	blanket	560	30		<a href="#">Edit   Delete</a>
2	Clock	440	10		<a href="#">Edit   Delete</a>
3	dust bin	230	40		<a href="#">Edit   Delete</a>

The user can log out from the page by clicking on username and then “Log Out”.

## **CONCLUSION**

We think we got the right tools and resources in building our project efficiently.

Standardization is also one factor. We are assured that our pages would be standard and acceptable to every visitor, that is we ensured that things such as layout conform to current practices with which every web user is familiar with and we would also be able to maintain the pages we have created with ease.

The GUI interface we used, takes away all the incidences of errors and gives you something manageable.