
PUNE INSTITUTE OF COMPUTER TECHNOLOGY

(DHANKAWADI, PUNE-43)



MINI PROJECT REPORT ON

“Mall Management Systems”

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Submitted To

Pune Institute of Computer Technology

For Academic Year 2017-18

ABSTRACT:

The mini-project of 'Mall Management System' serves the purpose of making/managing sales and managing the employees of a mall. The scope of the project involves managing daily proceedings of all stores and daily overview of all the orders made. All such data along with the details of the Customer, Job Information of Employees, Products and their quantities in every order are stored in the database. This data is further used while updating details of employees, customers, analyzing employees and sales, or generating an invoice.

ACKNOWLEDGEMENT:

We would like to express deep sense of gratitude towards the college and our Principal Dr. P.T. Kulkarni for allowing us the opportunity to work on and present this project report.

We would also like to extend our gratitude to Professor R.B. Murumkar, Professor S.A. Jakhete and Professor J.K. Kamble, for the able guidance and continuous support they provided which helped to successfully compile and prepare our project and report.

We are also thankful to all the staff members of the Department of Information Technology of Pune Institute of Computer Technology for their valuable time, support and suggestions.

We would like to thank all those who have directly or indirectly helped us for the completion of the work of this project.

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1. INTRODUCTION:

1.1 - PURPOSE:

Admin Interface and Functionalities for a Mall Management System along with a Customer Portal for Customers to view the Products.

1.2 - SCOPE:

- i. The software can be used in Malls for managing all activities in a mall from an administrator point of view.
- ii. Software is made for centralized information maintenance of Malls and all the employees and stores within.
- iii. Central administrator has the control on all the activities, w.r.t. adding, deleting, modifying database information and accessing the daily sales in the Mall.
- iv. Each Employee has their own login. The Administrator, Manager and Employees will be guided to different functionalities based on their individual logins.
- v. Administrator is at the top of the privilege chain followed by 2 Managers for each of our departments – Clothing and Food. Each department consists of various stores and a Store Manager manages proceedings of his/her store. The last employee in the privilege chain is the Sales Clerk for handling products in the store.
- vi. Each new order has the functionality of accepting the Customer details, along with details of the products and the details of the store to which the product belongs.
- vii. A Customer is entitled to discounts on the total price of his product based on current offers. A final price for each product is generated from the database which is calculated based on the discount and quantity of products purchased.
- viii. An Invoice is generated in pdf format for each order highlighting all the important details of the order such as the employee who has billed the order, the details of the products purchased and the customer contact details along with a unique invoice number.
- ix. Our Database stores details of all the employees that includes their Personal Details and Contact Numbers, Job Information and Emergency Contact Details in case of any medical emergency.
- x. Searching and Sorting functionalities based on the Employee Id and Employee Name have also been included to simplify data access for the administrator and managers.

- xi. A Customer Portal is available for potential Customers to view our products online. Customers have access to products of every clothing and food store. Customers can see Images and Prices of these products beforehand for them to decide which products to buy.

1.3 – DEFINITIONS , ABBREVIATIONS AND ACRONYMS :

- SQL – Structured Query Language

1.4 – REFERENCES :

- www.google.com
- www.stackoverflow.com
- www.w3schools.com
- www.mysqltutorial.org

1.5 – DEVELOPER’S RESPONSIBILITIES :

- I. Developer must provide simple and clean interface for user
- II. Developer must follow all regulations and guidelines for development of the project .
- III. Technologies used by the developer must be latest and flexible .
- IV. Developer must constantly build on this product .
- V. He/She must follow customer requirements and fulfill them .
- VI. Developer must complete project and update requirements in less time
- VII. Developer must look for customer feedback and suggestion and must make changes accordingly
- VIII. Developer must see to it that the product he has build is usable on various different platforms
- IX. Developer must abstract key features and must provide implementation for user

2. GENERAL DESCRIPTION

2.1 – PRODUCT FUNCTION PERSPECTIVE :

- i. Our product looks to provide an administrator interface for managing a mall
- ii. Product function perspectives include simple usability for management activities
- iii. Creation , Updation and Deletion facilities
- iv. Overall Summary analysis

2.2 – USER CHARACTERISTICS :

- Users tend to show easy understanding of functionalities
- Some users are interested in additional functionalities
- Users tend to show knowledge of order management system

2.4 – GENERAL CONSTRAINTS :

- i. Application is not hosted and hence does not have Online Support
- ii. Searching facility is absent in the Customer Portal.
- iii. Maintaining the central sales record is less secure.

2.5 – ASSUMPTIONS AND DEPENDENCIES :

- i. Basic Understanding of Order Management System from User Side
- ii. Internet Connection for smooth flow
- iii. Latest and Updated Files for complete project

3. SPECIFIC REQUIREMENTS

3.1 – INPUTS AND OUTPUTS :

- i. Input Case for Employee Form – Employee Personal Information , Job Information which includes Title , Supervisor and Employee ID , Emergency Contact Details
- ii. Output Case for Employee Form – Submission of all input data into tables and retrieval of data from database . Searching and Sorting of data of employee based on ID , date etc.
- iii. Input Case for Sale Form – Customer Information , Employee Information as to who is making the sale , Products along with the Name , Quantity , Discount and Total Price Details of the Sale
- iv. Output Case for Sale Form – Submission of all input data into tables and retrieval of data from database . Searching and Sorting of data of employee based on ID , date etc . PDF generation of Invoice of Purchase

3.3 – PERFORMANCE CONSTRAINTS :

- Beginner will find it hard to manage the activities
- Checking and verification of sale involving large amounts of products is not validated
- No provision for tax included in any sale

3.6 – ACCEPTANCE CRITERIA :

- All input cases that have proper validations
- All input requirements marked with an asterisk
- Valid entries for discount , customer information

The main modules in this Project are as follows:

- Customers
- Employees
- Job Title and Privileges
- Stores
- Products
- Orders
- Customer Portal

4. SYSTEM DESIGN

4.1 - E-R Design:

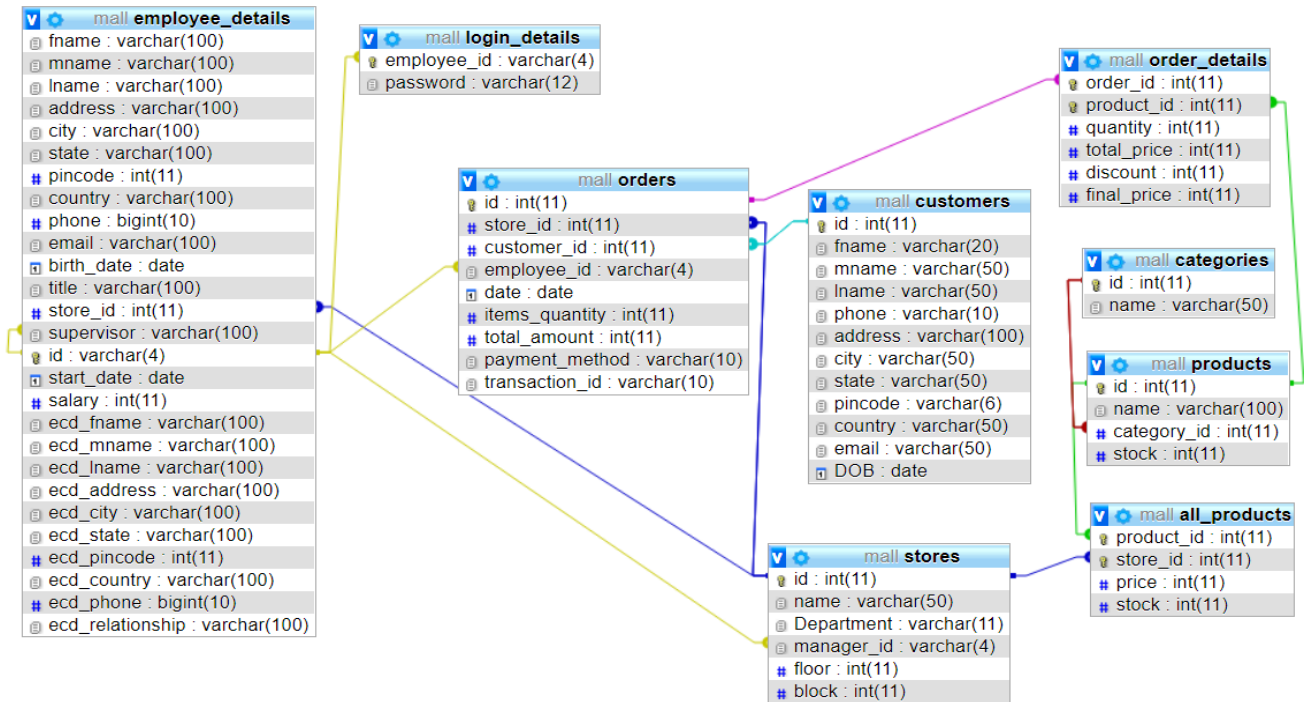


Fig 4.1.1- ER Diagram

4.2 - SCHEMA DESCRIPTION:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> all_products	★ Browse Structure Search Insert Empty Drop	109	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> categories	★ Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> customers	★ Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> employee_details	★ Browse Structure Search Insert Empty Drop	17	InnoDB	utf16_unicode_ci	64 KiB	-
<input type="checkbox"/> login_details	★ Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
<input type="checkbox"/> orders	★ Browse Structure Search Insert Empty Drop	75	InnoDB	latin1_swedish_ci	64 KiB	-
<input type="checkbox"/> order_details	★ Browse Structure Search Insert Empty Drop	107	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> products	★ Browse Structure Search Insert Empty Drop	30	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> stores	★ Browse Structure Search Insert Empty Drop	14	InnoDB	latin1_swedish_ci	32 KiB	-
9 tables	Sum	365	InnoDB	latin1_swedish_ci	304 KiB	0 B

Fig 4.2.1- SCHEMA Diagram

4.3 – TABLE DESCRIPTION:

```
XAMPP for Windows - mysql -u root -p
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use mall
Database changed
MariaDB [mall]> show tables
+-----+
| Tables_in_mall |
+-----+
| all_products   |
| categories     |
| customers      |
| employee_details |
| login_details  |
| order_details  |
| orders         |
| products       |
| stores         |
+-----+
9 rows in set (0.00 sec)

MariaDB [mall]> desc all_products;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| product_id | int(11)   | NO   | PRI | NULL    |       |
| store_id   | int(11)   | NO   | PRI | NULL    |       |
| price      | int(11)   | NO   |     | NULL    |       |
| stock      | int(11)   | NO   |     | NULL    |       |
+-----+
4 rows in set (0.03 sec)

MariaDB [mall]> desc categories
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id         | int(11)   | NO   | PRI | NULL    | auto_increment |
| name      | varchar(50) | NO   |     | NULL    |       |
+-----+
2 rows in set (0.05 sec)
```

Fig 4.3.1-List of Tables

```
orders
products
stores
+-----+
9 rows in set (0.00 sec)

MariaDB [mall]> desc all_products;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| product_id | int(11)   | NO   | PRI | NULL    |       |
| store_id   | int(11)   | NO   | PRI | NULL    |       |
| price      | int(11)   | NO   |     | NULL    |       |
| stock      | int(11)   | NO   |     | NULL    |       |
+-----+
4 rows in set (0.03 sec)

MariaDB [mall]> desc categories
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id         | int(11)   | NO   | PRI | NULL    | auto_increment |
| name      | varchar(50) | NO   |     | NULL    |       |
+-----+
2 rows in set (0.05 sec)

MariaDB [mall]> desc customers;
+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+
| id         | int(11)   | NO   | PRI | NULL    | auto_increment |
| fname     | varchar(20) | NO   |     | NULL    |       |
| mname     | varchar(50) | YES  |     | NULL    |       |
| lname     | varchar(50) | YES  |     | NULL    |       |
| phone     | varchar(10) | NO   |     | NULL    |       |
| address   | varchar(100) | YES  |     | NULL    |       |
| city      | varchar(50) | YES  |     | NULL    |       |
| state     | varchar(50) | YES  |     | NULL    |       |
| pincode   | varchar(6) | YES  |     | NULL    |       |
| country   | varchar(50) | YES  |     | NULL    |       |
| email     | varchar(50) | YES  |     | NULL    |       |
| DOB       | date      | YES  |     | NULL    |       |
+-----+
12 rows in set (0.05 sec)

MariaDB [mall]> desc employee_details;
```

Fig 4.3.2-Table Description(a)

```

address  varchar(100) YES      NULL
city     varchar(50)  YES      NULL
state    varchar(50)  YES      NULL
pincode   varchar(6)   YES      NULL
country  varchar(50)  YES      NULL
email    varchar(50)  YES      NULL
DOB      date         YES      NULL
-----
12 rows in set (0.05 sec)

MariaDB [mall]> desc employee_details;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | varchar(4) | NO | PRI | 001 | |
| status | varchar(10) | NO | | Active | |
| fname  | varchar(100) | NO | | NULL | |
| mname  | varchar(100) | YES | | NULL | |
| lname  | varchar(100) | NO | | NULL | |
| address | varchar(100) | NO | | NULL | |
| city   | varchar(100) | NO | | NULL | |
| state  | varchar(100) | NO | | NULL | |
| pincode | int(11) | NO | | NULL | |
| country | varchar(100) | NO | | NULL | |
| phone  | bigint(10) | NO | | NULL | |
| email  | varchar(100) | YES | | NULL | |
| birth_date | date | NO | | NULL | |
| title  | varchar(100) | NO | | NULL | |
| store_id | int(11) | YES | MUL | NULL | |
| supervisor | varchar(100) | NO | MUL | NULL | |
| start_date | date | NO | | NULL | |
| salary | int(11) | NO | | NULL | |
| ecd_fname | varchar(100) | NO | | NULL | |
| ecd_mname | varchar(100) | YES | | NULL | |
| ecd_lname | varchar(100) | NO | | NULL | |
| ecd_address | varchar(100) | NO | | NULL | |
| ecd_city | varchar(100) | NO | | NULL | |
| ecd_state | varchar(100) | NO | | NULL | |
| ecd_pincode | int(11) | NO | | NULL | |
| ecd_country | varchar(100) | NO | | NULL | |
| ecd_phone | bigint(10) | NO | | NULL | |
| ecd_relationship | varchar(100) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
28 rows in set (0.04 sec)

MariaDB [mall]>

```

Fig 4.3.3-Table Description(b)

```

ecd_state  varchar(100) NO      NULL
ecd_pincode int(11) NO      NULL
ecd_country varchar(100) NO      NULL
ecd_phone  bigint(10) NO      NULL
ecd_relationship | varchar(100) NO      NULL
-----
28 rows in set (0.04 sec)

MariaDB [mall]> desc login_details;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| employee_id | varchar(4) | NO | PRI | NULL | |
| password    | varchar(12) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.04 sec)

MariaDB [mall]> desc order_details;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| order_id | int(11) | NO | PRI | NULL | |
| product_id | int(11) | NO | PRI | NULL | |
| quantity | int(11) | NO | | NULL | |
| total_price | int(11) | NO | | NULL | |
| discount | int(11) | NO | | 0 | |
| final_price | int(11) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.06 sec)

MariaDB [mall]> desc orders;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int(11) | NO | PRI | NULL | auto_increment |
| store_id | int(11) | NO | MUL | NULL | |
| customer_id | int(11) | NO | MUL | NULL | |
| employee_id | varchar(4) | NO | MUL | 001 | |
| date | date | NO | | NULL | |
| items_quantity | int(11) | NO | | NULL | |
| total_amount | int(11) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.06 sec)

MariaDB [mall]>

```

Fig 4.3.4-Table Description(c)

total_amount	int(11)	NO		NULL	
--------------	---------	----	--	------	--

7 rows in set (0.06 sec)

MariaDB [mall]> desc products;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
category_id	int(11)	NO	MUL	NULL	
stock	int(11)	NO		NULL	

4 rows in set (0.04 sec)

MariaDB [mall]> desc stores;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(50)	NO		NULL	
Department	varchar(11)	NO		NULL	
manager_id	varchar(4)	NO	MUL	NULL	
floor	int(11)	NO		NULL	
block	int(11)	NO		NULL	

6 rows in set (0.04 sec)

MariaDB [mall]>

Fig 4.3.5-Table Description(d)

4.4 - USER INTERFACE SNAPSHOTS:

Fig 4.4.1- Login Page

ADMIN Flow (Similar for department Manager):

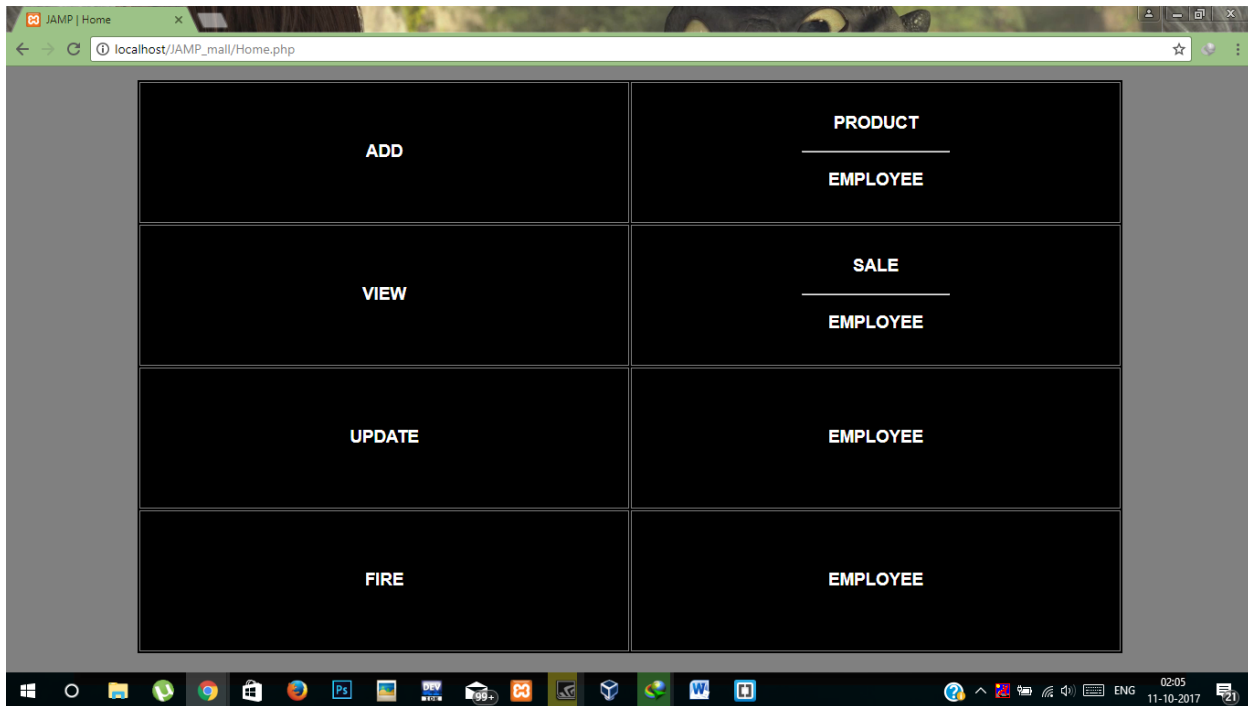


Fig 4.4.2- Home Page

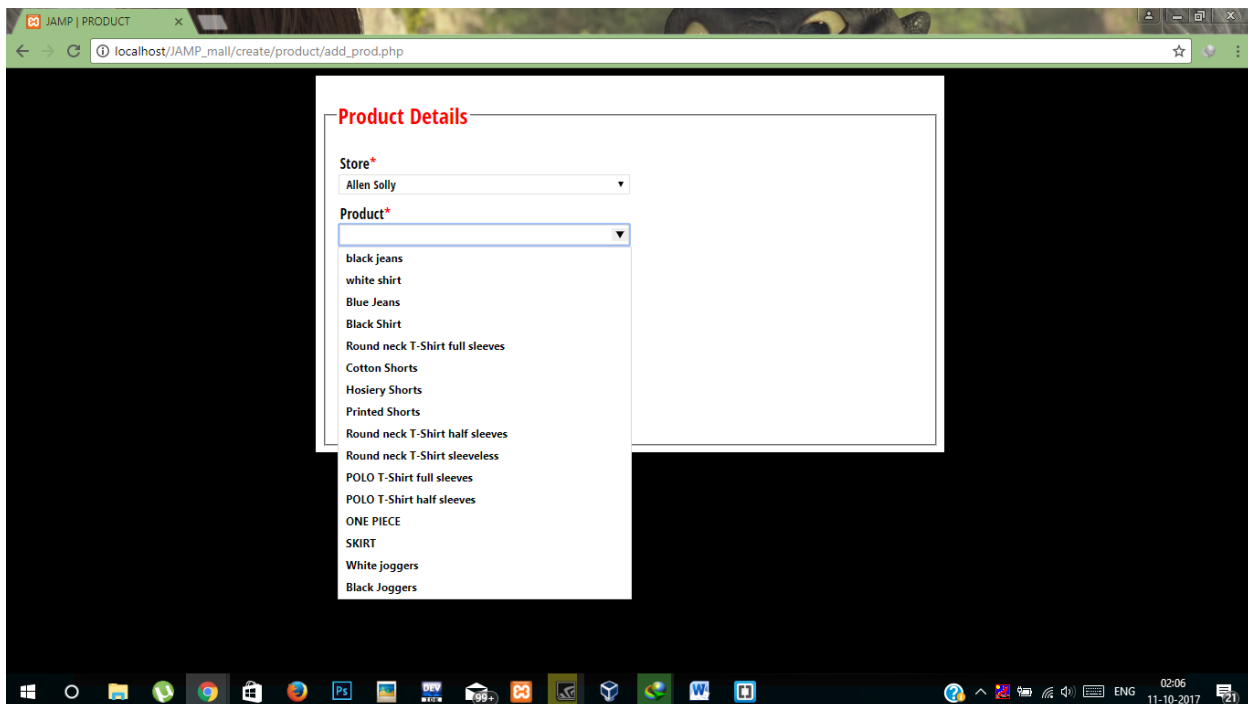


Fig 4.4.3- Add Products(a)

Product Details

Store*
Allen Solly

Product*
white shirt

Category*
2.Topwear

Price*
1400

Stock*
300

Submit

Fig 4.4.4- Add Products(b)

Employee details

Personal Information Job Information Emergency Contact Details

Name*
First Middle Last

Address*
Address
City State
Pin code India

Phone*
Phone

Email
Email

Birth Date
dd-mm-yyyy

Next

Fig 4.4.5- Add Employee(a)

Employee details

Personal Information Job Information Emergency Contact Details

Department*
Clothing

Title*
Sales Clerk

Employee ID*
C010

Store*
Forever 21

Previous Next

Fig 4.4.6- Add Employee(b)

Employee details

Personal Information Job Information Emergency Contact Details

Department*
Clothing

Title*
Sales Clerk

Employee ID*
C010

Store*
Forever 21

Supervisor*
Omikesh Mitkari

Start Date*
11-10-2017

Salary*
10000

Previous Next

Fig 4.4.7- Add Employee(c)

Employee details

Personal Information Job Information Emergency Contact Details

Name*

First Middle Last

Please enter First name

Address*

Address

City State

Pin code India

Phone*

Relationship*

Previous submit

Fig 4.4.8- Add Employee(d)

SALES DETAILS

Sort By: ID Ascending Search By: ID search

ORDER ID	STORE NAME	CUSTOMER NAME	EMPLOYEE NAME	DATE	QUANTITY	TOTAL AMOUNT	ORDER DETAILS
16	Domino's	Pranav Agrawal	Soham Ray	2017-10-09	123	6765	View order details
17	Domino's	Pranav Agrawal	Soham Ray	2017-10-09	3	165	View order details
19	Domino's	Pranav Agrawal	Soham Ray	2017-10-09	10	550	View order details
20	Domino's	Omakesh Miltkari	Soham Ray	2017-10-09	1	50	View order details
21	Allen Solly	Omakesh Miltkari	John Smith	2017-10-09	1	1400	View order details
22	Starbucks Coffee	Molish Mehta	Rajesh Agrawal	2017-10-11	3	600	View order details
23	Starbucks Coffee	Chinmay Shimpi	Rajesh Agrawal	2017-10-11	1	150	View order details
24	USPA	Chinmay Shimpi	Katrina Kaif	2017-10-11	4	5000	View order details
25	Arrow	Rishabh Shetty	Akshat Singh	2017-10-11	4	5800	View order details
26	Subway	Sharan Rajani	Mihir karkare	2017-10-11	8	400	View order details

Fig 4.4.9- View Sales(a)

View Sales Details

localhost/JAMP_mall/view/sales/view_sales_details_final.php

SALES DETAILS

Search By: ID search

ORDER ID	STORE NAME	CUST	PRODUCT	PRICE	QUANTITY	TOTAL PRICE	DISCOUNT	FINAL PRICE	TOTAL AMOUNT	ORDER DETAILS
1	Allen Solly	Prans							12800	View order details
3	Domino's	Prans	Mountain Dew	55	1	55	0	55	900	View order details
4	Allen Solly	Prans							1995	View order details
5	Domino's	Prans	Veg Peppy Paneer Pizza	450	2	900	20	720	50	View order details
6	Domino's	Prans							775	View order details
7	Domino's	Prans							933	View order details
8	Domino's	Pranav Agrawal	Soham Ray			2017-10-09	10		550	View order details
9	Domino's	Pranav Agrawal	Soham Ray			2017-10-09	2		700	View order details
10	Domino's	Pranav Agrawal	Soham Ray			2017-10-09	1		550	View order details
11	Domino's	Pranav Agrawal	Soham Ray			2017-10-09	1		55	View order details

Close

02:43 11-10-2017

Fig 4.4.10- View Sales(b)

View Employees

localhost/JAMP_mall/view/employee/view_employees.php

EMPLOYEE DETAILS

View: Active Employees Sort By: ID Search By: ID search

EMPLOYEE ID	NAME	ADDRESS	CONTACT	JOB INFORMATION	EMERGENCY CONTACT DETAILS
A001	Motish Ashokkumar Mehta	View Address	View contact details	View job information	View emergency contact details
C000	Pranav Agrawal	View Address	View contact details	View job information	View emergency contact details
C001	John Holland Smith	View Address	View contact details	View job information	View emergency contact details
C002	Will John Smith	View Address	View contact details	View job information	View emergency contact details
C003	Ranbir Rishi Kapoor	View Address	View contact details	View job information	View emergency contact details
C004	Katrina Kaif	View Address	View contact details	View job information	View emergency contact details
C005	Aditya Krishna Dixit	View Address	View contact details	View job information	View emergency contact details
C006	Akshat Akash Singh	View Address	View contact details	View job information	View emergency contact details
C007	Omakesh Milkari	View Address	View contact details	View job information	View emergency contact details
C008	Anurag Kallurwar	View Address	View contact details	View job information	View emergency contact details

02:38 11-10-2017

Fig 4.4.11- View Employee(a)

EMPLOYEE ID	NAME	ADDRESS	CITY	STATE	PINCODE	COUNTRY	INFORMATION	EMERGENCY CONTACT DETAILS
A001	Motish Ashokkumar Mehta	Wari	Mumbai	Maharashtra	400018	India	Information	View emergency contact details
C000	Pranav Agrawal						Information	View emergency contact details
C001	John Holland Smith						Information	View emergency contact details
C002	Will John Smith	View Address			View contact details		View job information	View emergency contact details
C003	Ranbir Rishi Kapoor	View Address			View contact details		View job information	View emergency contact details
C004	Katrina Kaif	View Address			View contact details		View job information	View emergency contact details
C005	Aditya Krishna Dixit	View Address			View contact details		View job information	View emergency contact details
C006	Akshat Akash Singh	View Address			View contact details		View job information	View emergency contact details
C007	Omakesh Mithari	View Address			View contact details		View job information	View emergency contact details
C008	Anurag Kallurwar	View Address			View contact details		View job information	View emergency contact details

Fig 4.4.12- View Employee(b)

View Employees

localhost/IAMP_mall/view/employee/view_employees.php

EMPLOYEE DETAILS

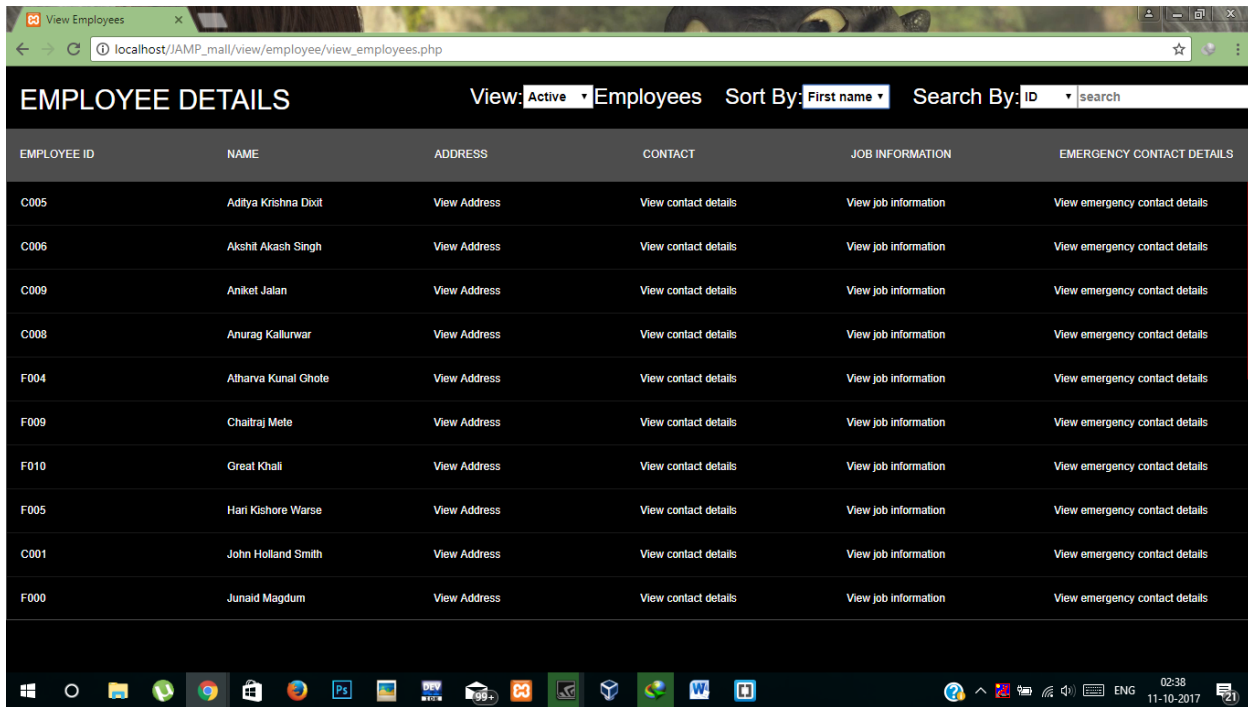
Search By: ID search

EMPLOYEE ID	NAME	TITLE	DEPARTMENT	STORE	SUPERVISOR	START DATE	SALARY	INFORMATION	EMERGENCY CONTACT DETAILS
A001	Motish Ashokkumar Mehta							Information	View emergency contact details
C000	Pranav Agrawal	Store Manager	Clothing	SuperDry	Pranav Agrawal	2017-01-01	35000	Information	View emergency contact details
C001	John Holland Smith							Information	View emergency contact details
C002	Will John Smith							Information	View emergency contact details
C003	Ranbir Rishi Kapoor	View Address			View contact details		View job information	View emergency contact details	
C004	Katrina Kaif	View Address			View contact details		View job information	View emergency contact details	
C005	Aditya Krishna Dixit	View Address			View contact details		View job information	View emergency contact details	
C006	Akshat Akash Singh	View Address			View contact details		View job information	View emergency contact details	
C007	Omakesh Mithkari	View Address			View contact details		View job information	View emergency contact details	
C008	Anurag Kallurwar	View Address			View contact details		View job information	View emergency contact details	

Close

11-10-2017

Fig 4.4.13- View Employee(c)



View Employees

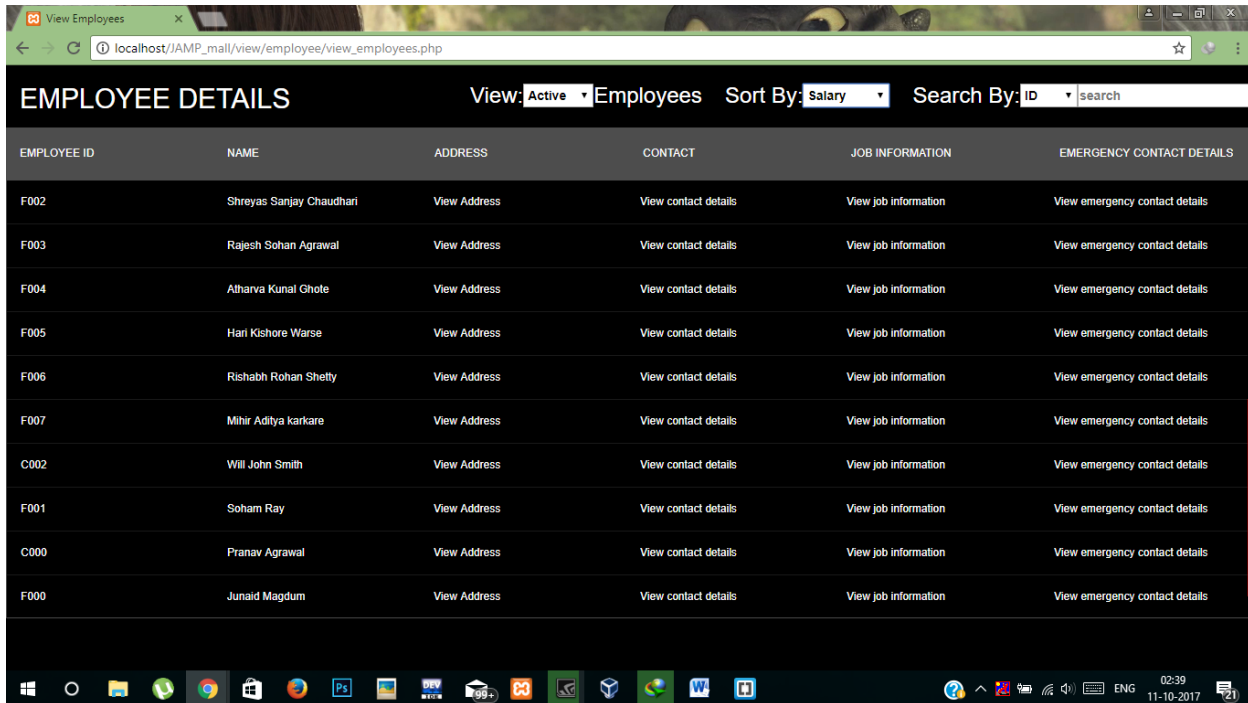
localhost/IAMP_mall/view/employee/view_employees.php

EMPLOYEE DETAILS

View: Active Employees Sort By: First name Search By: ID search

EMPLOYEE ID	NAME	ADDRESS	CONTACT	JOB INFORMATION	EMERGENCY CONTACT DETAILS
C005	Aditya Krishna Dixit	View Address	View contact details	View job information	View emergency contact details
C006	Akshit Akash Singh	View Address	View contact details	View job information	View emergency contact details
C009	Aniket Jalan	View Address	View contact details	View job information	View emergency contact details
C008	Anurag Kallurwar	View Address	View contact details	View job information	View emergency contact details
F004	Alharva Kunal Ghote	View Address	View contact details	View job information	View emergency contact details
F009	Chaitraj Mete	View Address	View contact details	View job information	View emergency contact details
F010	Great Khali	View Address	View contact details	View job information	View emergency contact details
F005	Hari Kishore Warse	View Address	View contact details	View job information	View emergency contact details
C001	John Holland Smith	View Address	View contact details	View job information	View emergency contact details
F000	Junaid Magdum	View Address	View contact details	View job information	View emergency contact details

Fig 4.4.14- View Employee(d)



View Employees

localhost/IAMP_mall/view/employee/view_employees.php

EMPLOYEE DETAILS

View: Active Employees Sort By: Salary Search By: ID search

EMPLOYEE ID	NAME	ADDRESS	CONTACT	JOB INFORMATION	EMERGENCY CONTACT DETAILS
F002	Shreyas Sanjay Chaudhari	View Address	View contact details	View job information	View emergency contact details
F003	Rajesh Sohan Agrawal	View Address	View contact details	View job information	View emergency contact details
F004	Alharva Kunal Ghote	View Address	View contact details	View job information	View emergency contact details
F005	Hari Kishore Warse	View Address	View contact details	View job information	View emergency contact details
F006	Rishabh Rohan Shetty	View Address	View contact details	View job information	View emergency contact details
F007	Mihir Aditya karkare	View Address	View contact details	View job information	View emergency contact details
C002	Will John Smith	View Address	View contact details	View job information	View emergency contact details
F001	Soham Ray	View Address	View contact details	View job information	View emergency contact details
C000	Pranav Agrawal	View Address	View contact details	View job information	View emergency contact details
F000	Junaid Magdum	View Address	View contact details	View job information	View emergency contact details

Fig 4.4.15- View Employee(e)

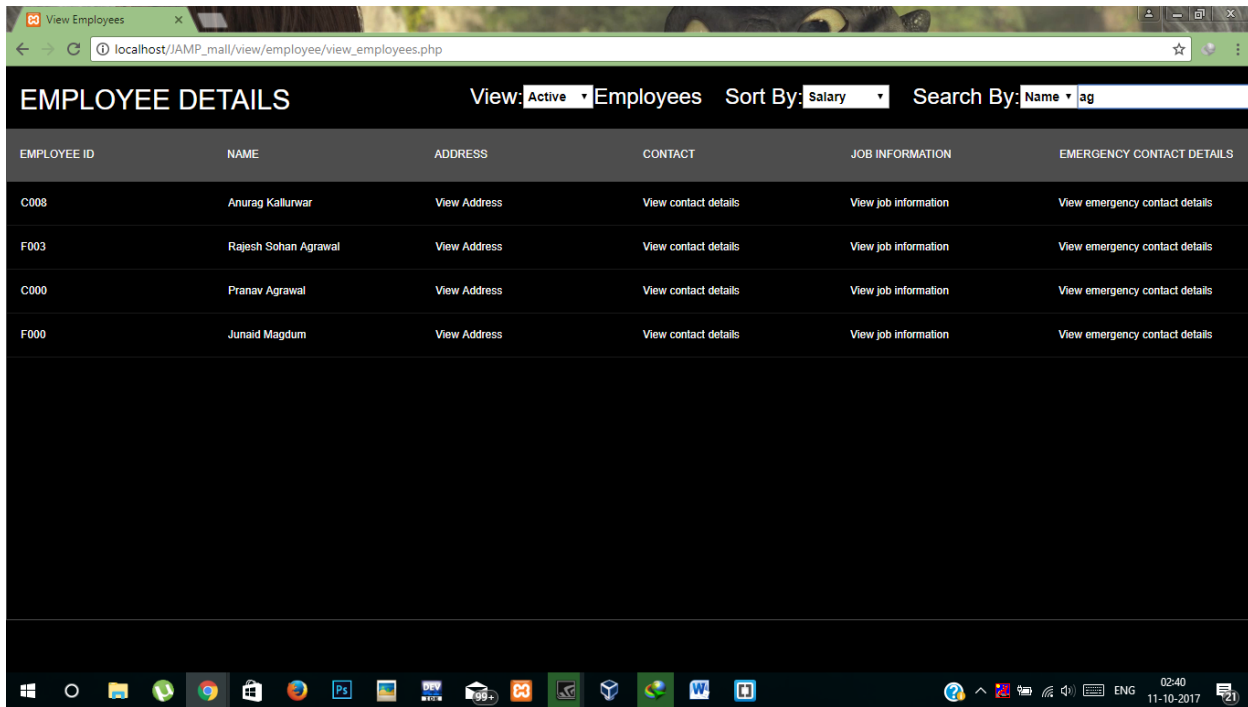


Fig 4.4.16- View Employee(f)

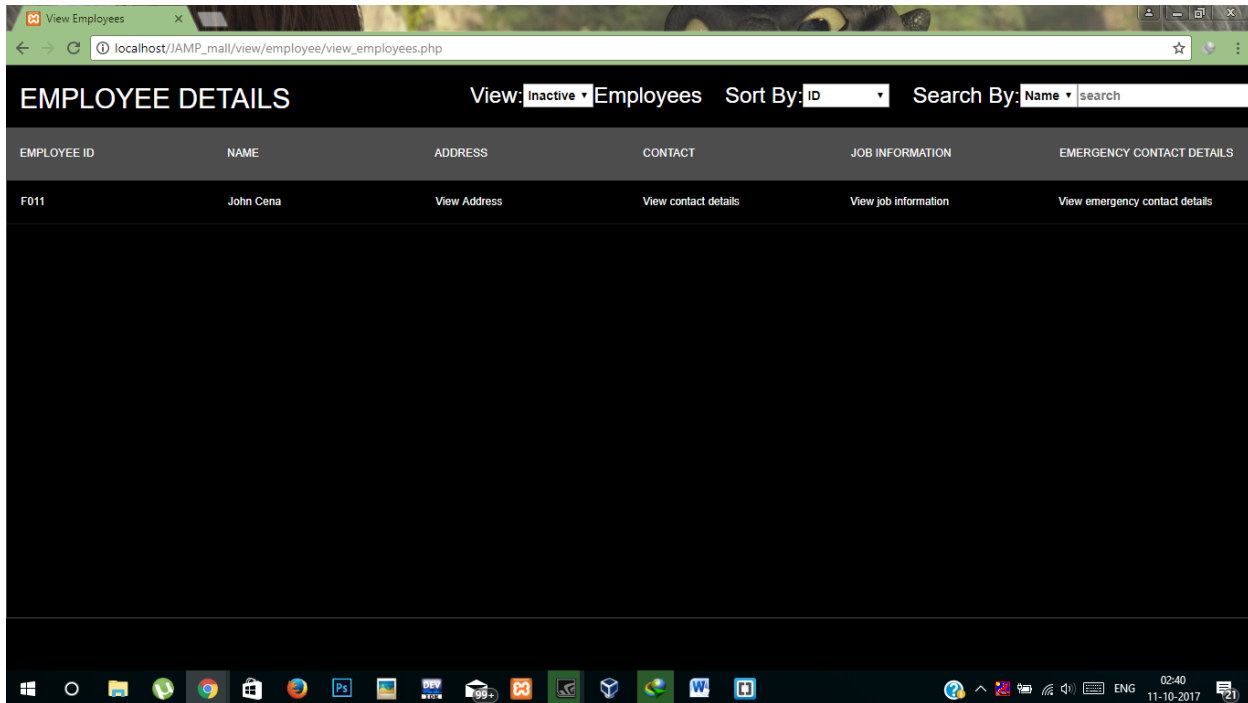


Fig 4.4.17- View Employee(g)

EMPLOYEE ID	NAME	ADDRESS	CONTACT	JOB INFORMATION	EMERGENCY CONTACT DETAILS
C000	Pranav Agrawal	View Address	View contact details	View job information	View emergency contact details
C001	John Holland Smith	View Address	View contact details	View job information	View emergency contact details
C002	Will John Smith	View Address	View contact details	View job information	View emergency contact details
C003	Ranbir Rishi Kapoor	View Address	View contact details	View job information	View emergency contact details
C004	Katrina Kaif	View Address	View contact details	View job information	View emergency contact details
C005	Aditya Krishna Dixit	View Address	View contact details	View job information	View emergency contact details
C006	Akshil Akash Singh	View Address	View contact details	View job information	View emergency contact details
C007	Omikesh Mitkari	View Address	View contact details	View job information	View emergency contact details
C008	Anurag Kallurwar	View Address	View contact details	View job information	View emergency contact details

Fig 4.4.18- Update Employee(view)

Employee details

Personal Information Job Information Emergency Contact Details

Department*
Clothing

Title*
Store Manager

Employee ID*
C006

Password*
123456789

Store*
Arrow

Supervisor*
Pranav Agrawal

Start Date*
11-09-2017

Salary*
25000

Previous Next

Fig 4.4.19- Update Employee(a)

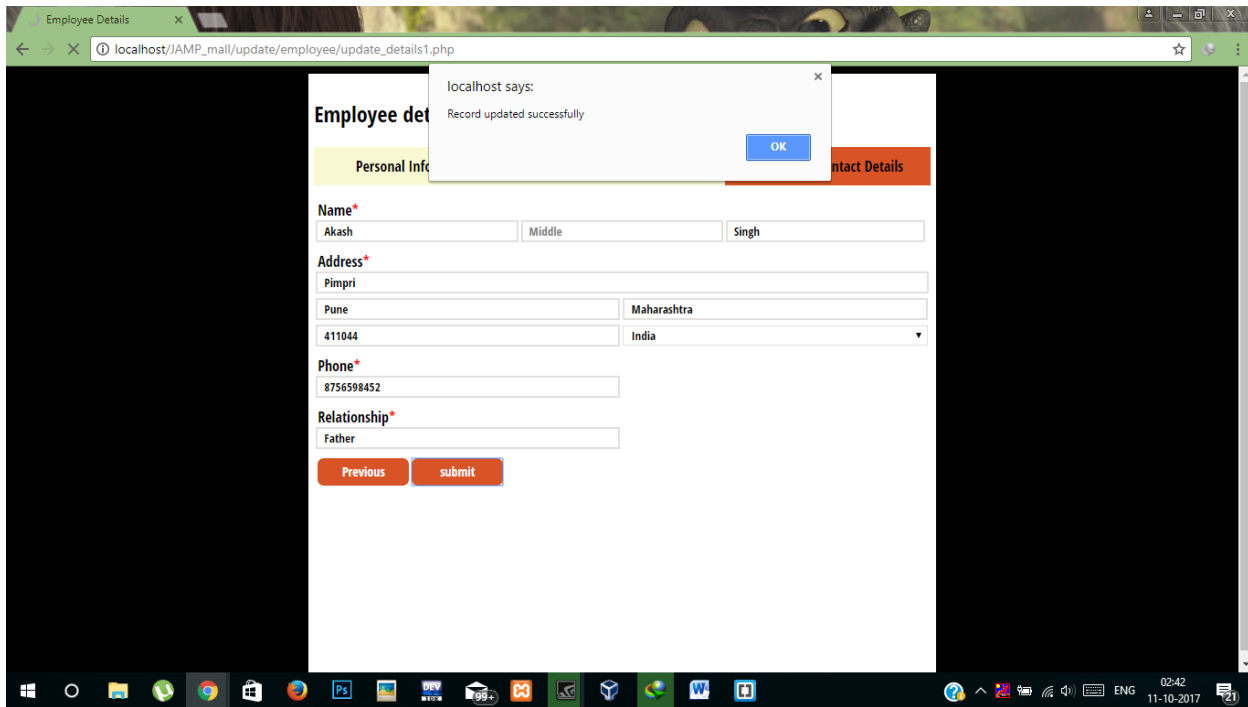


Fig 4.4.20- Update Employee(b)

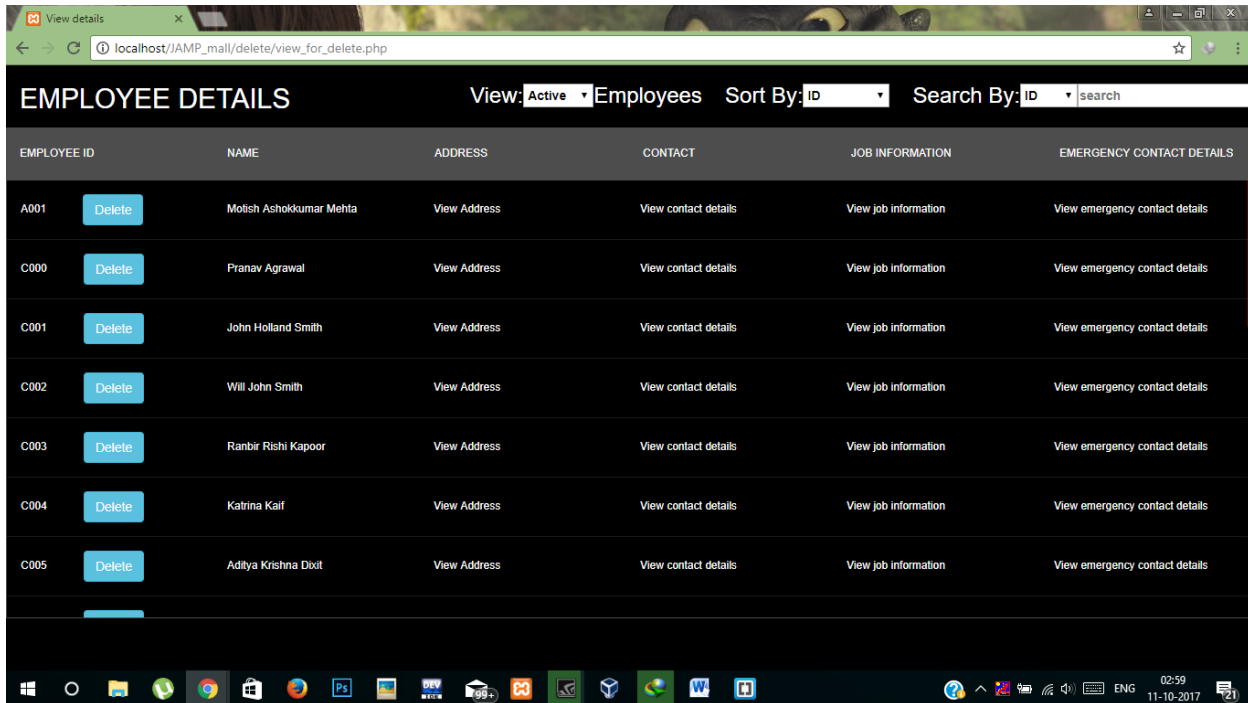


Fig 4.4.21- Update Employee(c)

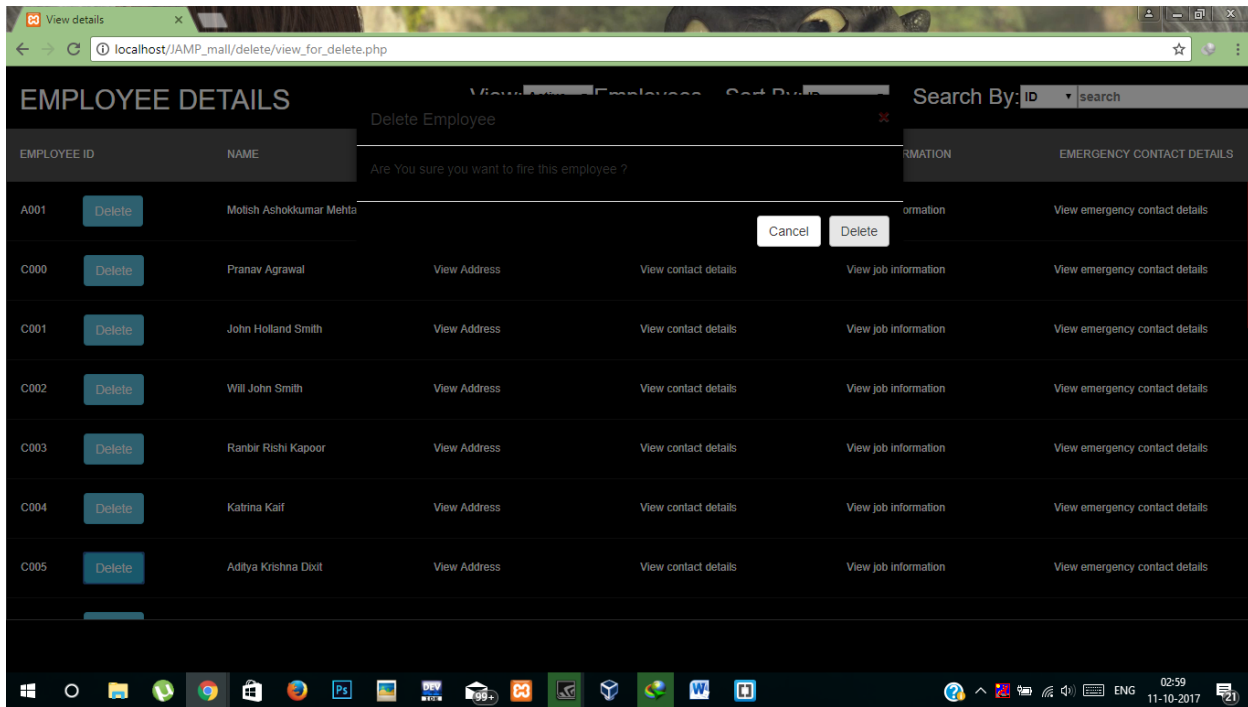


Fig 4.4.22- Delete Employee

Store Manager Flow (Changed/Additional Pages):

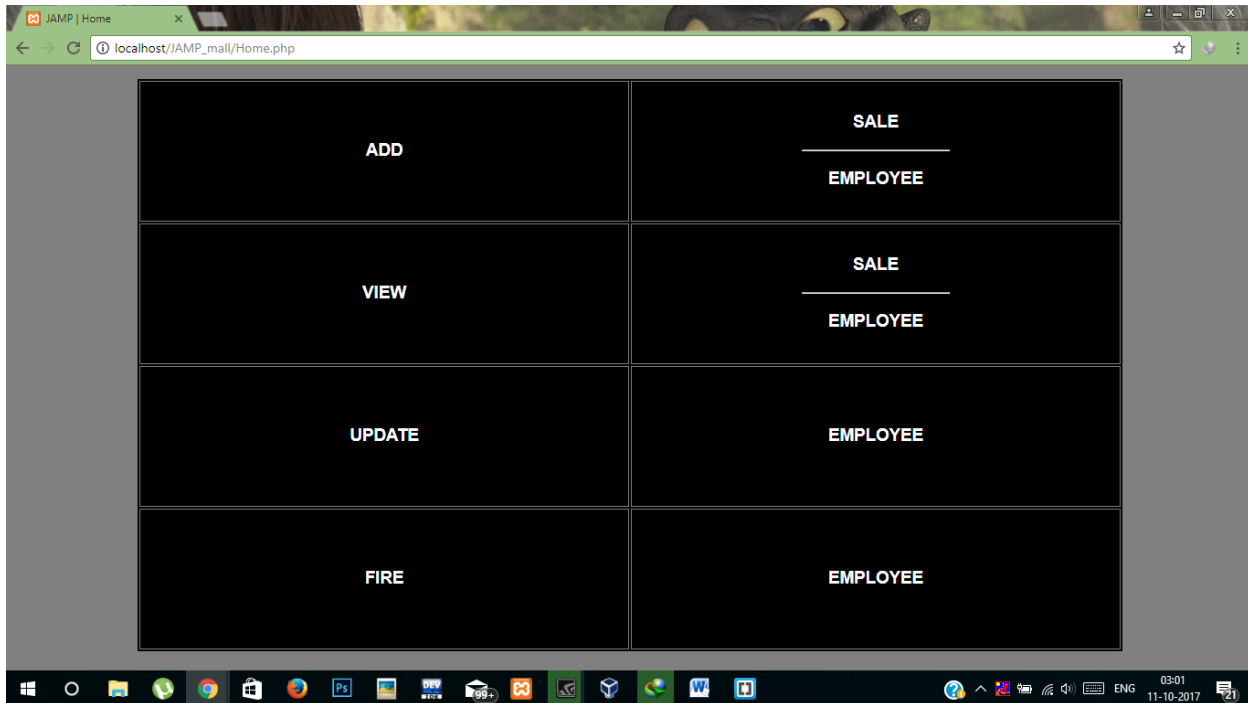


Fig 4.4.23- Home Page

Sale Details

Customer Details

Phone*

9765229963 Pranav Agrawal
 7776887398 Omkesh Mitkari
 9422247762 Motish Mehta
 9876543210 Chinmay Shimpi
 9638527415 Rishabh Shetty
 9517538426 Sharan Rajani

Middle Last

Pin code India

Email

Birth Date
 dd-mm-yyyy

Order Details

Product	Price	Quantity	Discount	Total
x --		quantity	0	

Add Product Submit

Fig 4.4.24- Add Sale(a)

Sale Details

Customer Details

Phone*
 9422247762

Name*
 Motish Middle Mehta

Address*
 Katraj
 Pune Maharashtra
 411049 India

Email
 mehta.motish1197@gmail.com

Birth Date
 11-11-1997

Order Details

Product	Price	Quantity	Discount	Total
x Hara Bhara Kebab Sub	250	1	0	250
x Veg cheese sandwich	150	1	0	150
x Coffee	200	1	0	200

Add Product Submit

Fig 4.4.25- Add Sale(b)

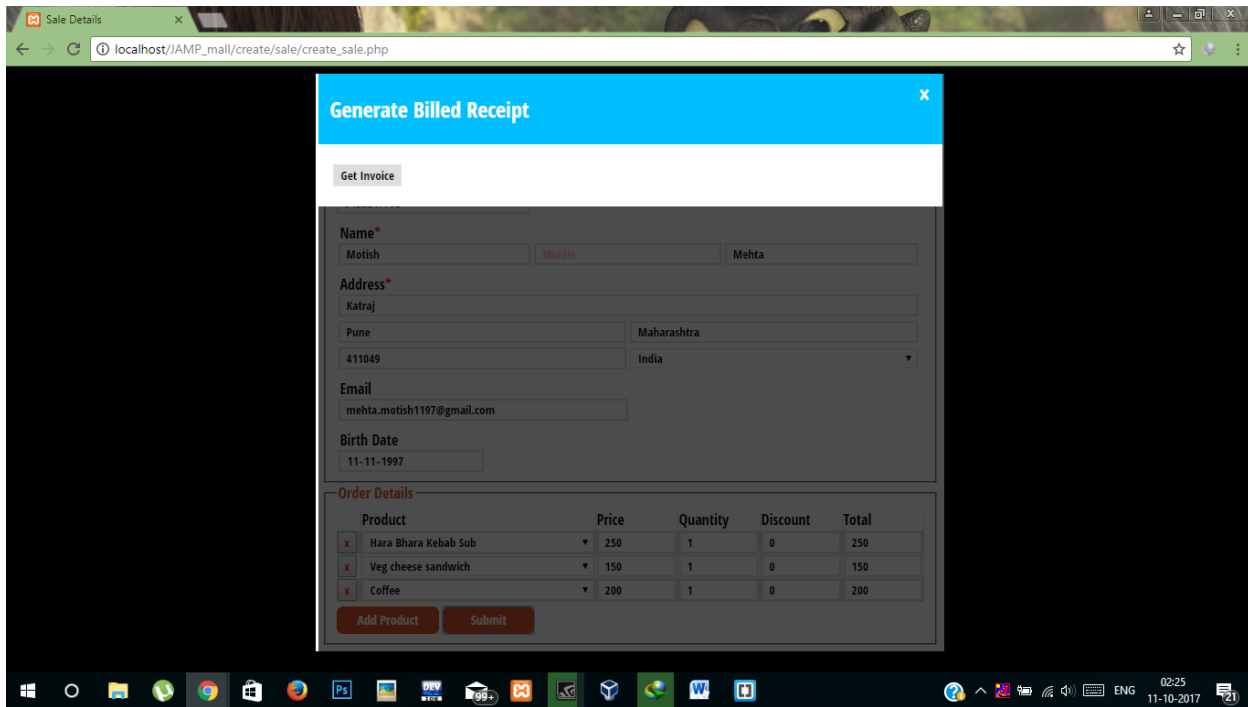


Fig 4.4.26- Add Sale(c)

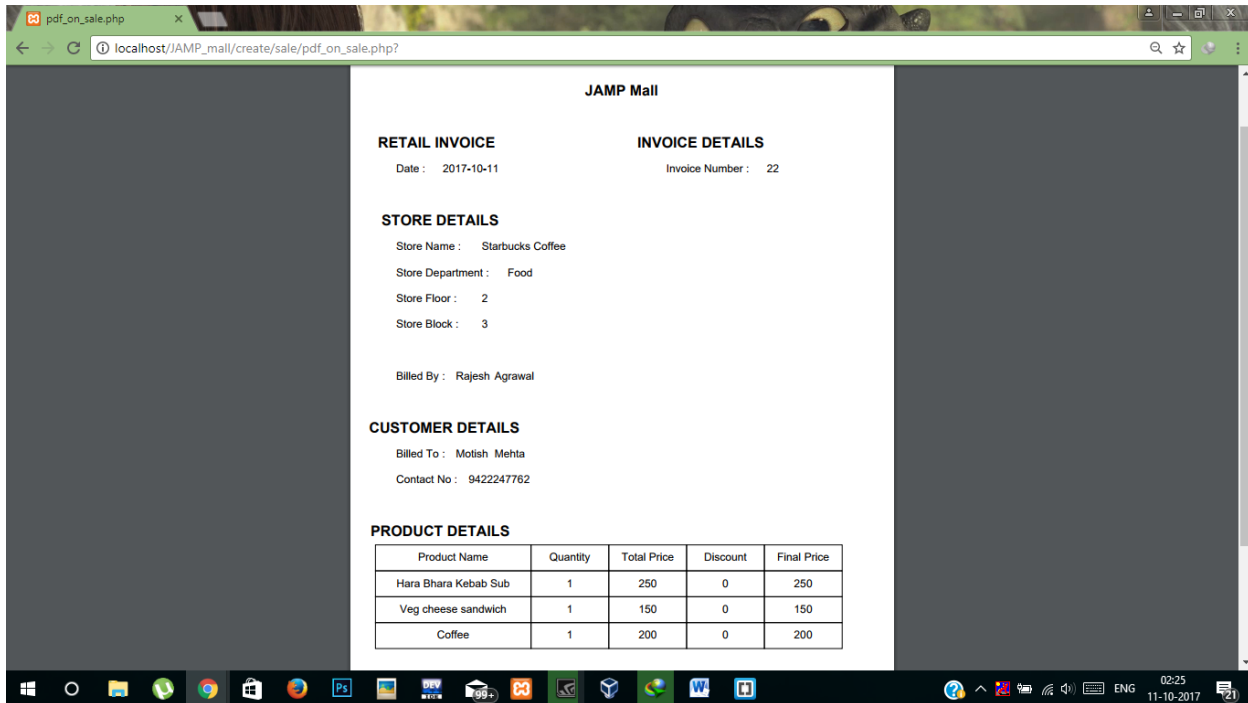


Fig 4.4.27- Generated PDF

CUSTOMER PORTAL:

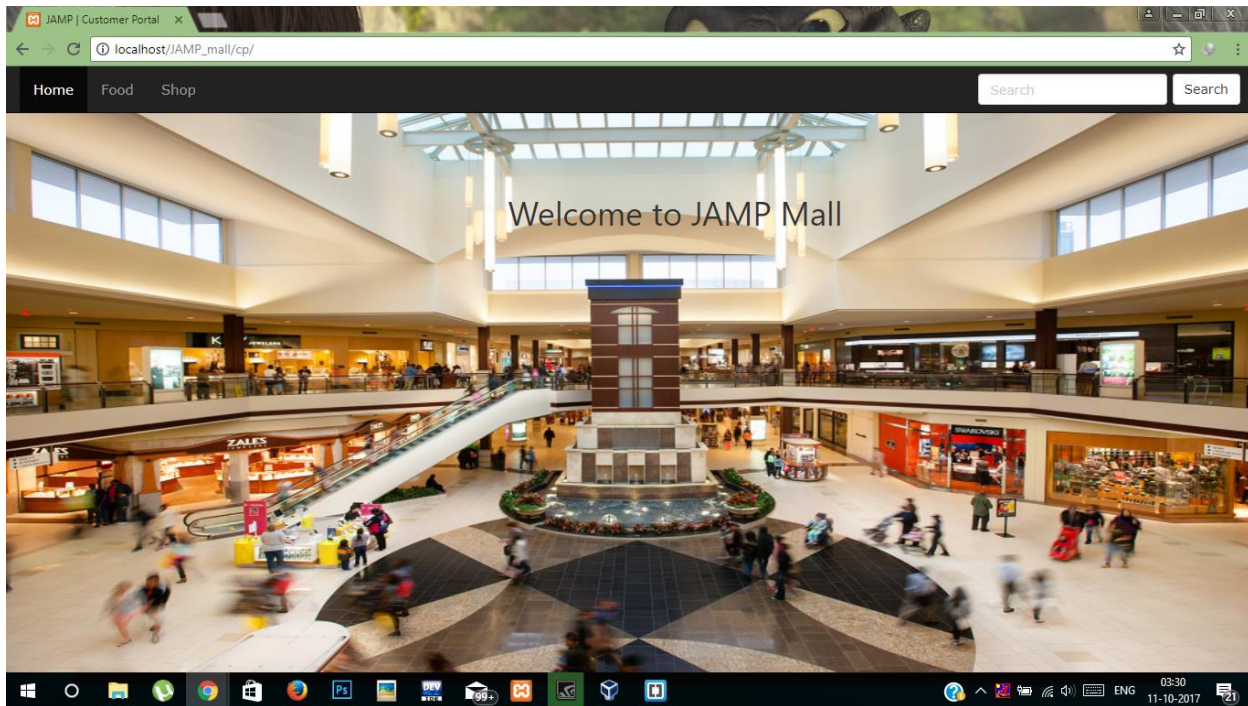


Fig 4.4.28- Home

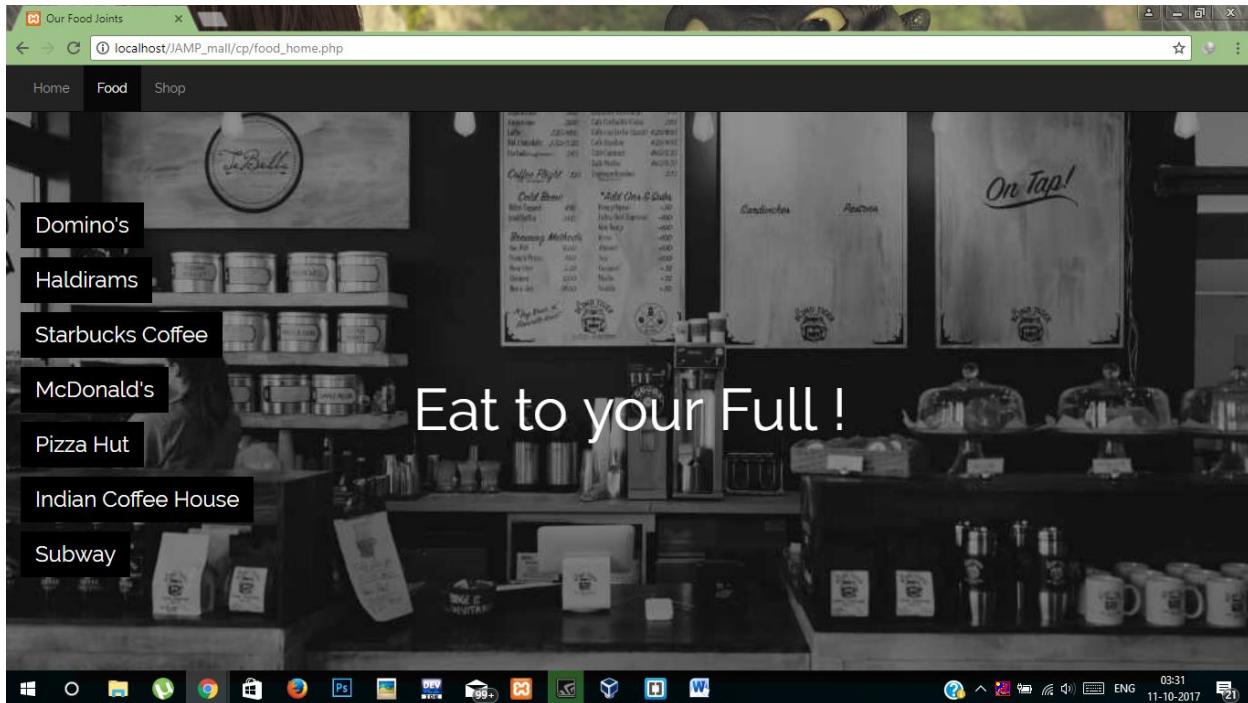


Fig 4.4.29- Food(a)

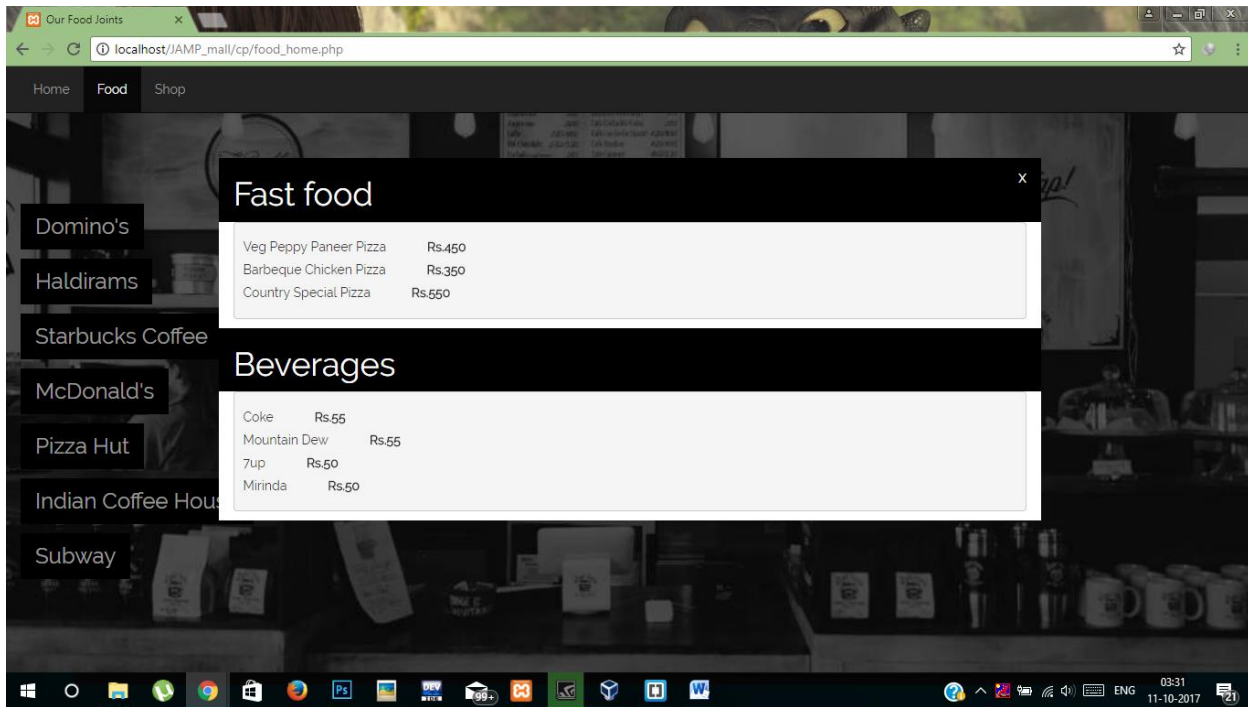


Fig 4.4.30- Food(b)

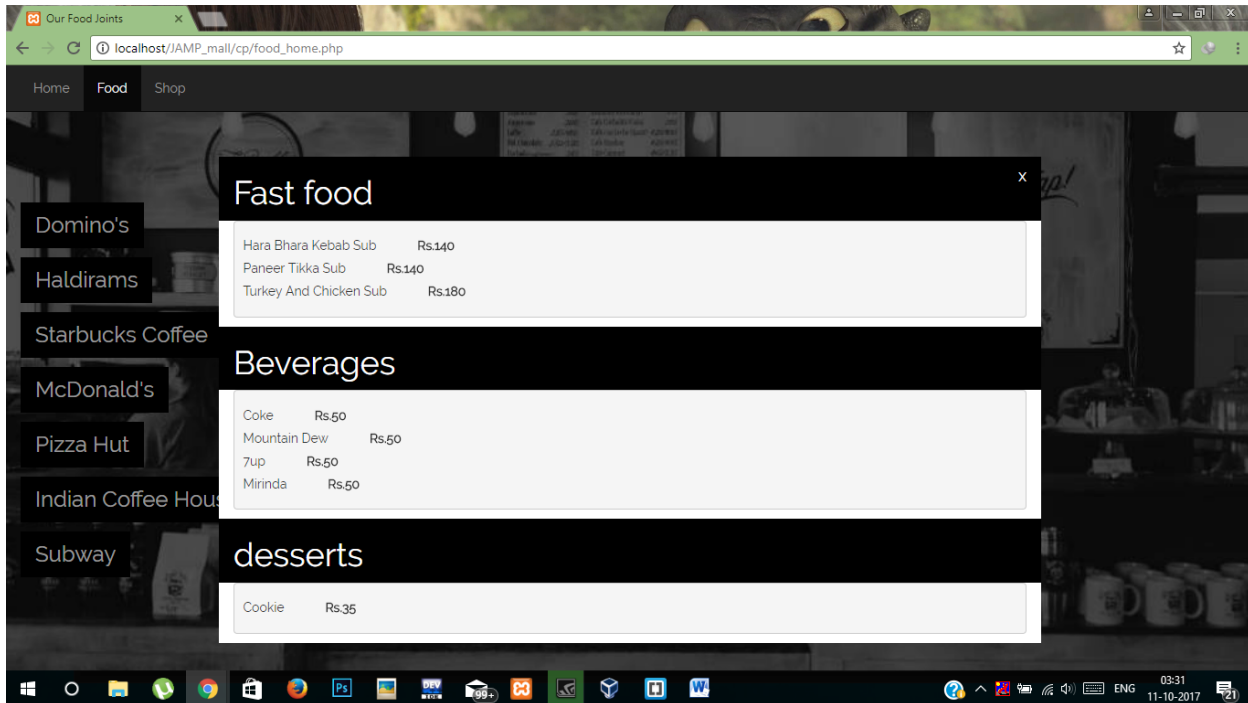


Fig 4.4.31- Food(c)

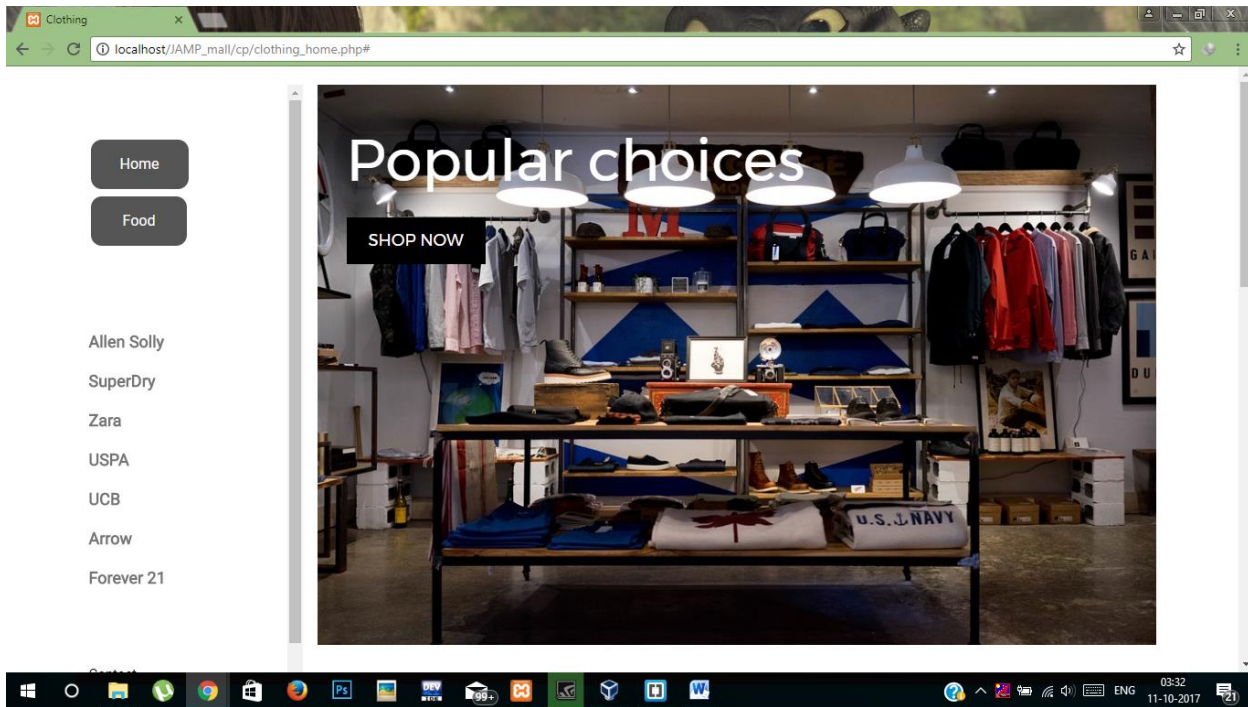


Fig 4.4.32- Clothing(a)

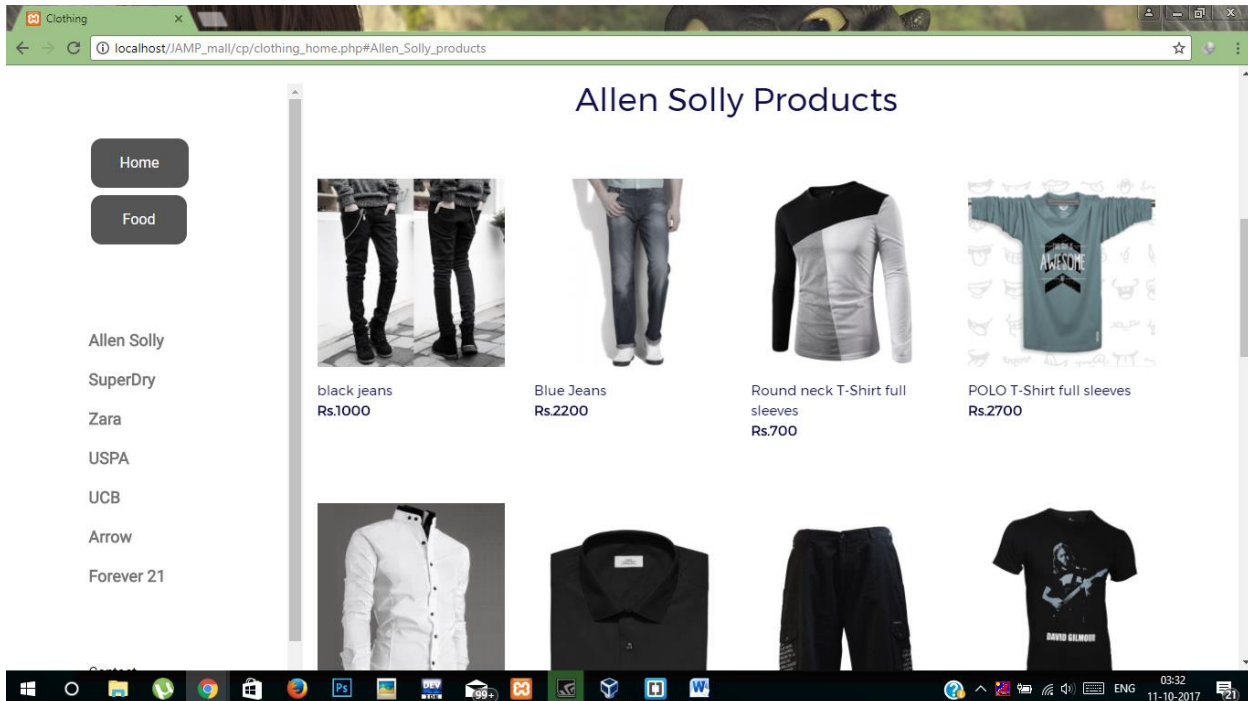


Fig 4.4.33- Clothing(b)

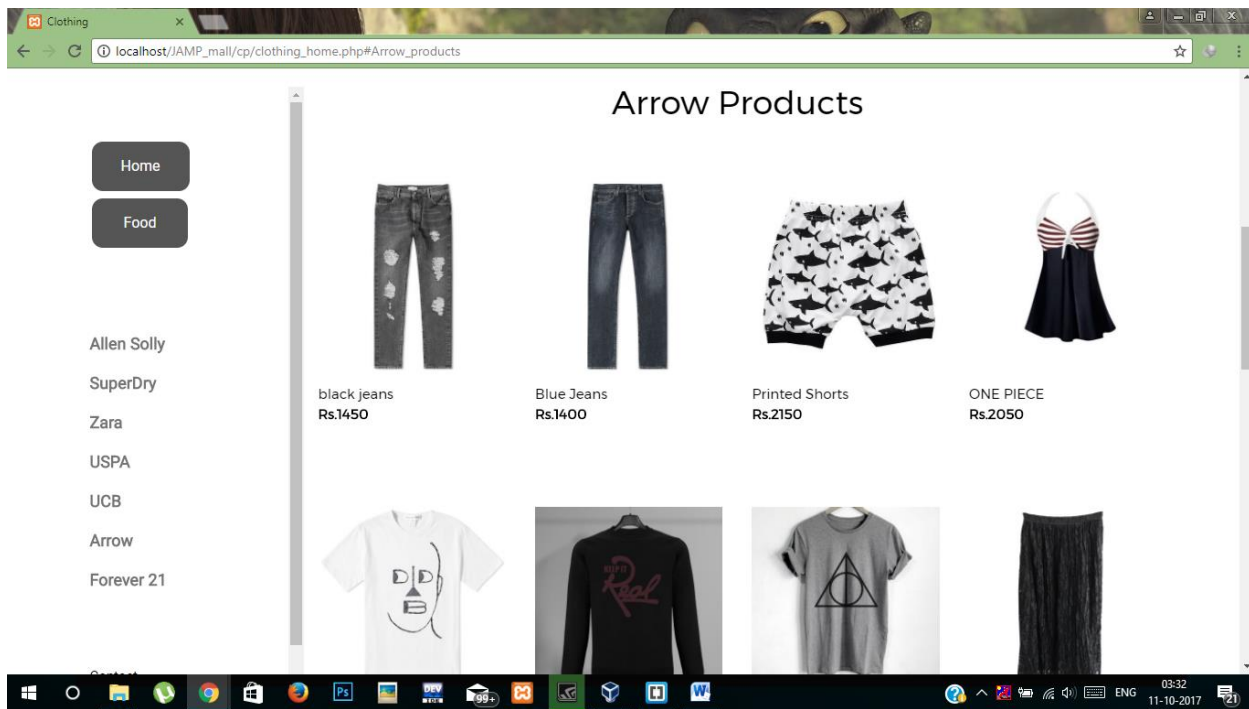


Fig 4.4.34- Clothing(c)

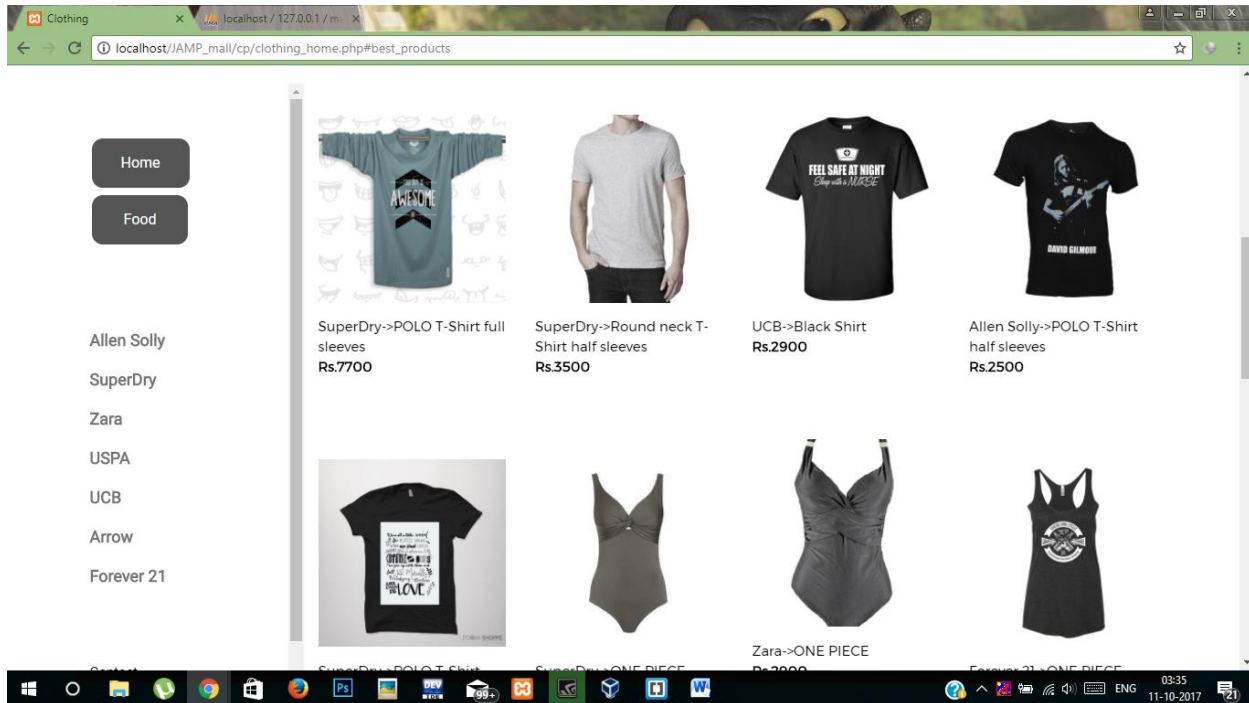


Fig 4.4.35- Clothing(d)

4.5 – ERROR MESSAGES / ALERTS DESIGN:

The screenshot shows a web browser window with the URL `localhost/IAMP_mall/create/employee/employee_details_form.php`. The page displays an "Employee details" form with three tabs: "Personal Info", "Job Information", and "Contact Details". The "Personal Info" tab is active. The form contains the following fields: "Name*" (with sub-fields for First, Middle, and Last), "Address*" (with sub-fields for City, State, and Pin code), "Phone*", "Email", and "Birth Date" (with a date picker). A validation alert box is displayed over the form, stating "localhost says: PinCode must be numerical input of 6 characters". The alert has an "OK" button. The form also has a "Next" button at the bottom.

Fig 4.5.1- Alert (a)

The screenshot shows the same web browser window and URL as Fig 4.5.1. The "Employee details" form is displayed with the "Personal Information" tab active. The form fields are: "Name*" (with sub-fields for First, Middle, and Last), "Address*" (with sub-fields for City, State, and Pin code), "Phone*", "Relationship*", and "submit" button. A red error message "Please enter First name" is displayed below the "First" name field. The form also has a "Previous" button.

Fig 4.5.2- Alert (b)

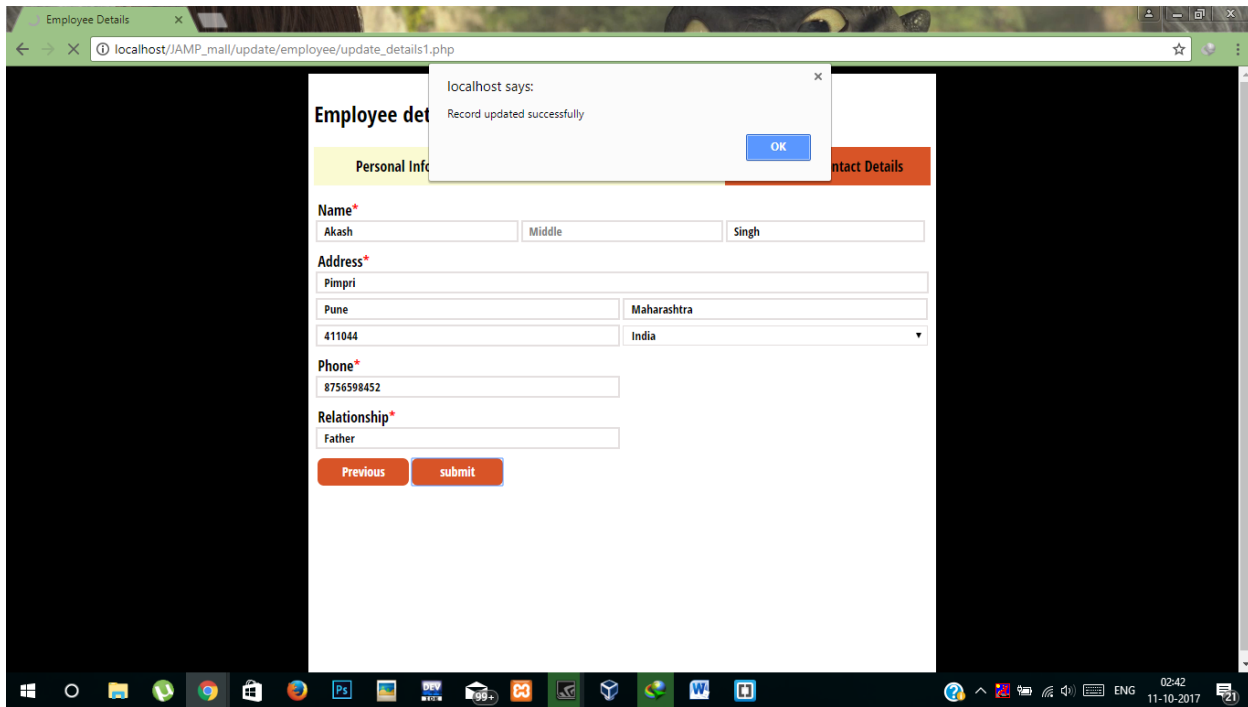


Fig 4.5.3- Alert (c)

5.1 – HARDWARE / SOFTWARE PLATFORM:

- Intel core I3/I5 Processor
- XAMPP (PHP / myadmin)
- Google Chrome

5.2 – TOOLS USED:

- Google Drive
- Brackets
- Sublime Text Editor
- Notepad++
- XAMPP

5.4 – FUTURE WORK / EXTENSION

- Validation of Quantity and Stock for Sales
- Summary of a day's sales
- GUI Improvement

5.5 - CONCLUSION

The three parts which are essential for this project are User interface, Creation of relational database and SQL engine.

The Project is entirely based on database management system concepts. The back-end use for project is MySql and front-end is PHP , HTML , CSS , JavaScript and AJAX . The Coding of Sql queries through PHP is properly done. The project is very feasible.

The software engineering concepts are used to implement the project. The requirement analysis is understood and done for this project.

6. ANNEXUR

6.1 PROCEDURES AND TRIGGERS USED

Procedures:

1. Procedure for generating unique Employee ID for each Employee:

```
CREATE PROCEDURE `generate_id`(IN `dept` VARCHAR(20), OUT `genid`  
INT)
```

```
BEGIN
```

```
    SELECT COUNT(store_id) INTO genid
```

```
    FROM employee_details
```

```
    JOIN
```

```
    (SELECT id FROM stores WHERE department = dept)st
```

```
    ON employee_details.store_id=st.id;
```

```
END
```

2. Procedure for getting Full Name of Manager via store name:

```
CREATE PROCEDURE `get_manager`(IN `strname` VARCHAR(20), OUT  
`fullname` VARCHAR(50))
```

```
BEGIN
```

```
    SELECT concat(fname,' ',mname,' ',lname)
```

```
        INTO fullname

        FROM employee_details

        WHERE id = (SELECT manager_id FROM stores WHERE name=strname);

END
```

Triggers:

1. Trigger for updating stock in products table if a product is added in a particular store:

```
CREATE TRIGGER `product_stock_on_insert`

BEFORE INSERT ON `all_products`

FOR EACH ROW

BEGIN

    update products

    set stock = stock + new.stock

    WHERE new.product_id = id;

END
```

2. Trigger for updating stock in products table if a product's stock is updated in a particular store:

```
CREATE TRIGGER `product_stock_on_update`

BEFORE UPDATE ON `all_products`
```

FOR EACH ROW

BEGIN

UPDATE products

set stock = stock - old.stock + new.stock

WHERE old.product_id = id;

END

3. Trigger for updating stock in products table if a product's stock is updated in a particular store:

CREATE TRIGGER `Order_details_insert`

BEFORE INSERT ON `order_details`

FOR EACH ROW

BEGIN

SET new.total_price = new.quantity * (SELECT price FROM all_products
WHERE product_id = new.product_id AND store_id = (SELECT store_id
FROM orders WHERE id = new.order_id));

SET new.final_price = new.total_price * (1-new.discount / 100);

UPDATE orders SET items_quantity=items_quantity+new.quantity

WHERE id=new.order_id;

UPDATE orders

SET total_amount=total_amount+new.final_price

WHERE id=new.order_id;

UPDATE all_products

set stock=stock-new.quantity

where product_id=new.product_id and store_id=(select store_id from orders
where id=new.order_id);

END