



Web-Based Portal for Online Shopping

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Abstract: Apparel is just another word for clothing. There are many reasons to dress up- protection from cold, to cover the body, physical attraction etc.....Fashion is a popular style or practise in clothing, footwear, accessories etc...In this paper we are building a web-based portal to view, buy and sell clothing, footwear, accessories etc... We have provided means to register and later login with unique user name and password to the web portal for both admin called admin login and for the client/customer called user login. The main objective of this application is to bring all items-clothing, footwear, watches and other accessories of different vendors under one roof and make it available to the public through World Wide Web hosting. All the operations are automated –billing, registration and acknowledgement, proper report generation, mail and tweets. In this paper we practically explain both server side scripting and client side scripting and the languages used in the above. We also present to you the ER diagram of the project or design both for the user and the admin. SQLs are used to communicate with the data base update or retrieve data from database.

Keywords: web-based portal, view, buy and sell clothing, footwear, accessories etc.,register and later login with unique user name and password, server side scripting, client side scripting, report generation, ER diagram, SQL, database.

I. INTRODUCTION

In the 21st century world, people are busy and they won't find much time to go to a dealer to buy products. Also, an individual needs clothes, a watch, shoes and other accessories. These may or may not be available under one roof. In this paper we are developing a web-based portal which involves the buying and selling of clothes or apparels, footwear, watches and other fashion accessories under one roof. A user is allowed to view the commodity, check out the price, fill in the delivery form and buy the product online. Reports are generated at any time within few seconds and manual labour is not required. Everything from billing, taxation, acknowledgement, delivery status is automated/ self-generated.

The web-based portal has the following features

- Provide recording of details of the customer
- Provides customer ID to the customer
- Automated report generation for billing and shipping
- During form filling, automated assistance is provided for error control
- Provides filterable selection as opted by the customer
- Excel download of all reports
- The admin has the rights/ powers to add or remove any new/ old commodity; increase or decrease the price; block a commodity which is out of stock or controversial
- Shows the available stock in numbers and is decremented after each purchase automatically
- An automated feedback form is generated after the customer receives the goods or commodity

II. SERVER-SIDE SCRIPTING

Server-side scripting is a technique used in web development which involves employing scripts on a web server which produce a response customised for each clients request to the website, it is also called back-end web development. The back-end comprises of

- The server [1]
- Database [2]
- Back-end web application
- Software written via server-side languages



SQL stands for Structured Query Language [3]. SQL is used to communicate with the database. SQL statements are used to perform tasks such as update data on a database or retrieve data from a database. SQL commands include “select”, “insert”, “update”, “delete”, “create” and “drop”. In this paper MySQL is used to access the database and is a RDBMS (Relational Database System). A Relational Database System consists of one or more objects called tables. The data or information for the database are stored in these tables. Tables are uniquely identified by their names and are comprised of columns and rows. Server-side scripts are used by back-end web developers to build the back-end software of a website. These languages create the communication channel between user, server and database. Some of the popular server-side languages are

- PHP
- Python
- Ruby
- C#
- C++
- Java
- Erlang

III. CLIENT-SIDE SCRIPTING

Everything we see, click and interact with on a website is the work of front-end web development. All the websites run on three components: the server, the database and the client. The client is simply the browser a person is using to view a site. Server-side scripting is executed by a web server; client-side scripting is executed by a browser. Client-side scripting is also called front end development [4]. Figure 1 shows block diagram of front-end development. Following are the languages used for client-side scripting.

- HTML and CSS
- JavaScript
- JavaScript frameworks
 1. Angular JS
 2. Node.js
 3. Bootstrap
 4. AJAX

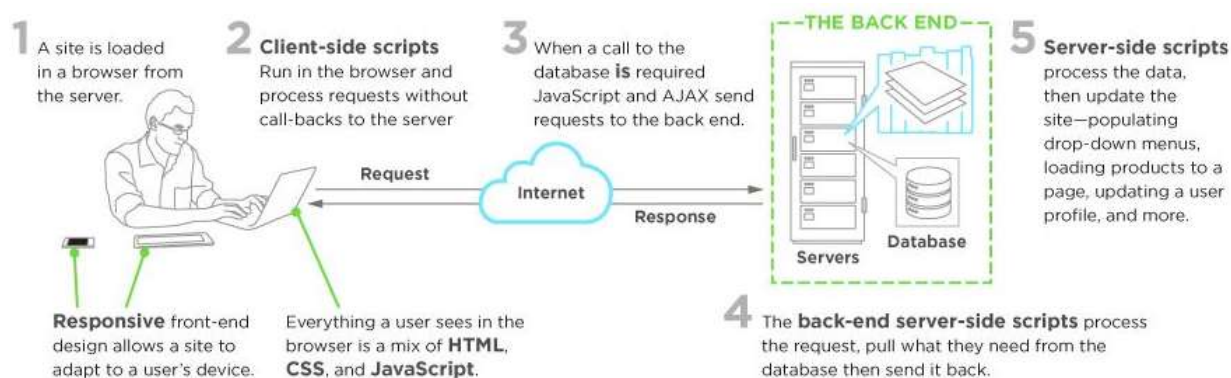


Figure 1 shows block diagram of front-end development

IV. METHODOLOGY

- Install and open XAMPP which is a PHP development environment [5]. The goal of XAMPP is to build an easy-to-install distribution for developers to get into the world of Apache, MySQL, PHP etc. XAMPP-VM is a virtual machine. Applications are installed/run on top of XAMPP.
- Start the Apache and MySQL module and a green signal indicates it is active/started. Apache is web server software and it supports server-side programming, support to authentication schemes, SSLs, digital certificate authentication and password authentication. Figure 2 shows the XAMPP control panel with Apache and MySQL are activated (green indicates active).
- Now open any web browser and type localhost/phpmyadmin/ in the URL. This will redirect you to the phpMyAdmin screen. Figure 3 shows the phpMyAdmin screen. To create a database select new (on left side of the



screen) and give a database name as 'shop'. Now start creating the tables. Figure 4 shows the database with tables- new, category, details, fdbk, items, orders, register, subcategory and trash. Figure 5, 6 and 7 shows the tables of the database 'shop'. Figure 8 shows the order table and is as filled by the customer and is a special case of back-end database

- To run client-side or project, type localhost/shop/ on the URL. Figure 9 shows the index page of the web-based portal developed by us. A customer can register and later can, login, view, buy or sell a product using this web-portal. Figure 10 shows the register form and figure 11 shows the option of viewing and buying the commodity.
- We have also provided provision for admin login to update the website by the vendor or any third party, software/web maintenance firm to add/ delete products; information and pricing.

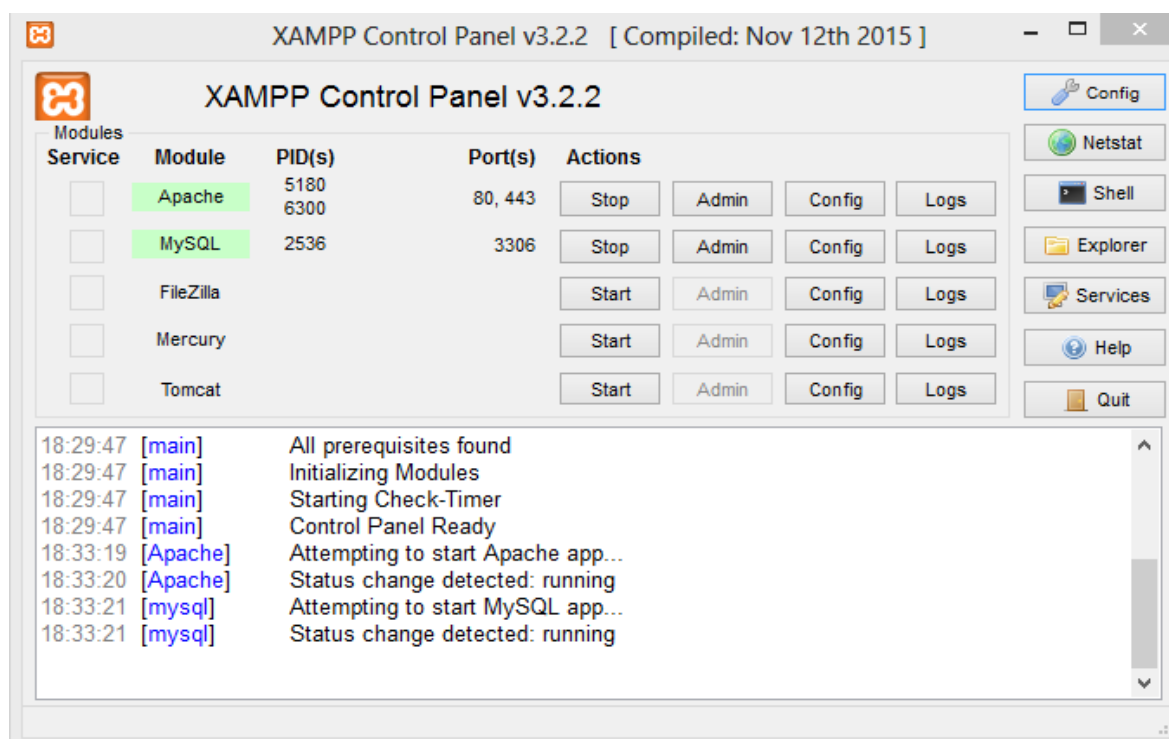


Figure 2 shows the XAMPP control panel with Apache and MySQL are activated (green indicates active)

V. ER DIAGRAMS

Figure 12 shows ER diagram for users and figure 13 shows ER diagram for admin. An Entity-Relationship diagram (ERD) is a data modelling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure. The elements of an ERD are:

- Entities
- Relationship
- Attributes

VI. RESULTS

Figure 14 shows the order form. The customer has to fill in the order form and select a respective bank for payment. Figure 15 shows the order successfully placed and a report automatically generated with a unique order number of ord156.

VII. CONCLUSIONS

The web-based portal that we have built brings all fashion commodities like clothes, footwear, watches and other accessories under one roof and is available on the World Wide Web server and enables the customers to shop online. Options of register and login are available. Customer login and admin login is also possible. The database is easily accessed using the web browser by the customer using proper front-end design and a reserved URL.

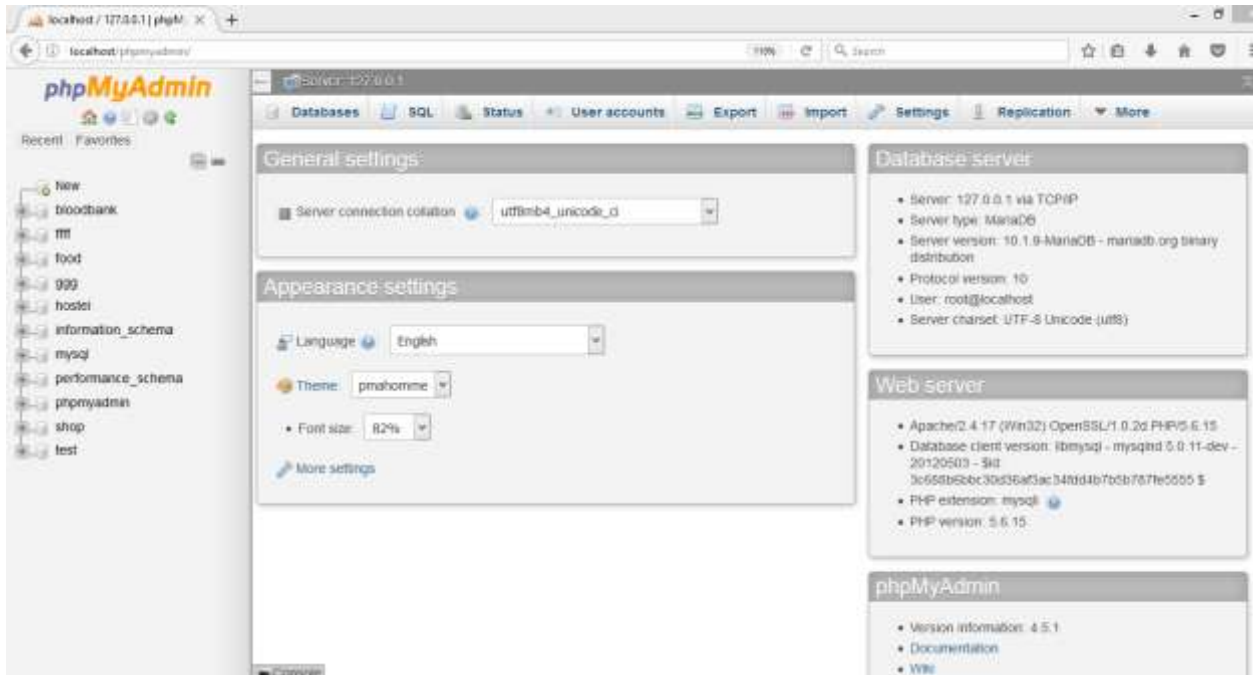


Figure 3 shows the phpMyAdmin screen

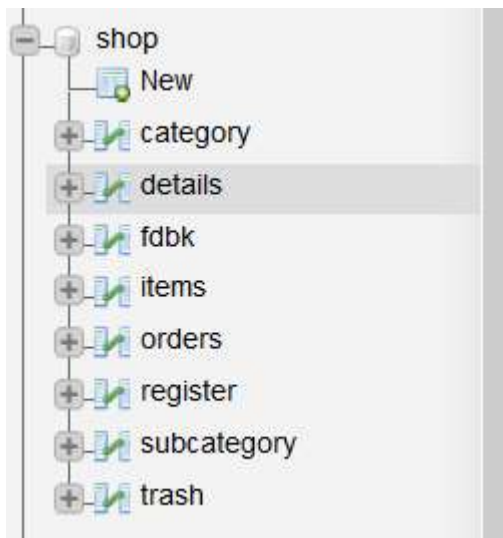


Figure 4 shows the database shop and its tables



Figure 5 shows the table 'category'



`SELECT * FROM `subcategory``

Show all | Number of rows: 25 | Filter rows:

+ Options

cat_id	subcategory
1	Casual Shirts
1	jeans
1	T-shirts
1	Footwear
1	Shorts
1	watches
2	Dresses
2	Churidar Suits
2	Kurtas
2	Sandals
2	Office Wear
2	Artificial Jewellery
3	Baby Apparel
3	Girls Apparel
3	Boys Apparel

Console

Figure 6 shows the table 'subcategory'

`SELECT * FROM `register``

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

Show all | Number of rows: 25 | Filter rows: Search this table

Sort by key: None

+ Options

	title	fname	lname	gen	id	pass	phone	add	city	coun	dob
<input type="checkbox"/> Edit Copy Delete	Mr.	Ankur	gupta	male	ankur@gmail.com	ankur123	9414279845	Shanti Path Tilak Nagar	Jaipur	India	13-11-89
<input type="checkbox"/> Edit Copy Delete	Ms.	Priya	gupta	female	priya@gmail.com	priya123	9460380893	Patrakar Colony Jawahar Nagar	Delhi	India	30-03-91
<input type="checkbox"/> Edit Copy Delete	Mr.	wishnu	kumar	male	wishnu123@gmail.com	abcd12345	9591104193	chamarajpet	bangalore	india	12/12/1994

Check all | With selected: Edit Copy Delete Export

Figure 7 shows the register table



SELECT * FROM `orders`

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

Show all | Number of rows: 25 | Filter rows: Search this table

Options

pname	itemno	price	size	uname	ac_no	mob_no	add	bank	city	order_no
Tresmode Ladies Pump Shoes	foot2	Rs1600	Medium	Priya Gupta	ac234	987654987	Tiak Nagar,Shanti path	ICICI	Jaipur	ord228
W Mix and match kurta	k4	Rs1079	Medium	Priya Gupta	ac345	36536356353	jaewahar Nagar	SBI	Delhi	ord326
United Colors of Benetton Mens	cs2	Rs1999	Small	vishnu kumar	123436546	9591104193	chamarajpet	SBI	bangalore	ord356

Figure 8 shows the order table and is as filled by the customer an is a special case of back-end database



Figure 9 shows the index page of the shopping cart

Thank You for Shopping With Us

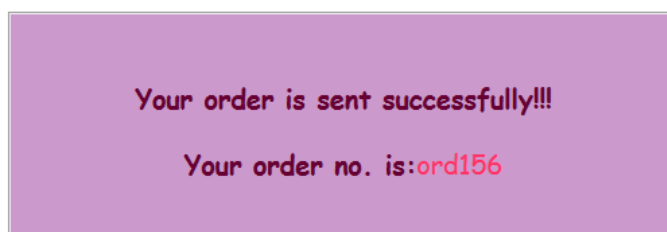


Figure 15 shows the order report with a unique order ID 'ord156'



Figure 10 shows the customer registration form



Figure 11 shows the option of viewing and buying the commodity

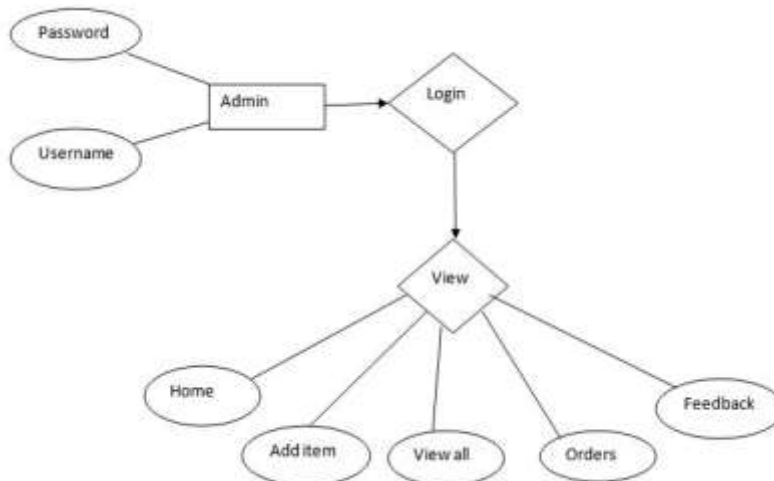


Figure 12 shows the ER diagram for the user

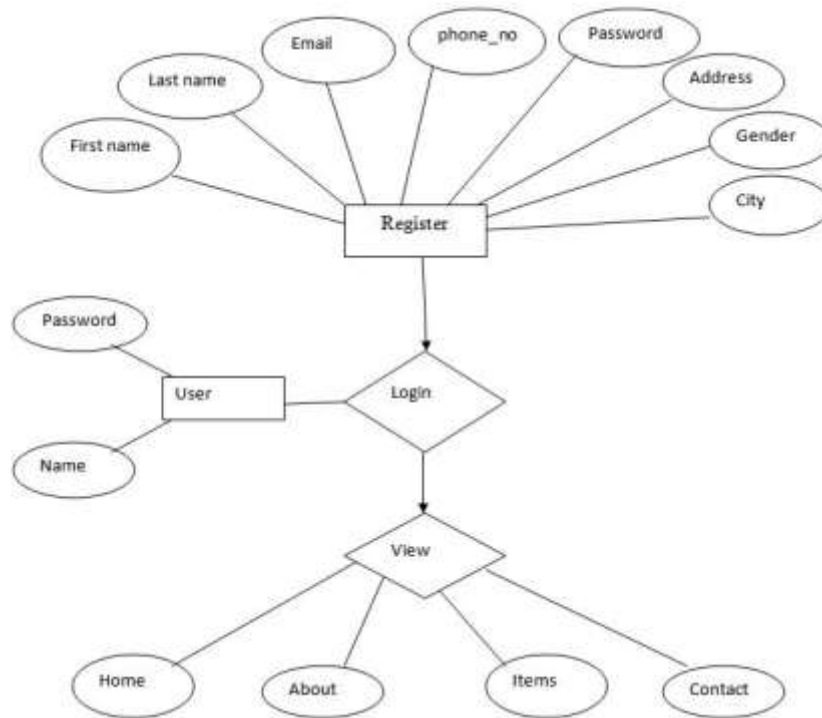


Figure 13 shows the ER diagram for the admin

Order Form



Figure 14 shows the order registration form for the customer

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