

Web-Based Portal for Food and Breweries

Vishesh S¹, Parth Sharma², Supriya Yadati Narasimhulu³, Nandan AS⁴, Kavya P Hathwar⁴, Nikhil RS⁵

B.E, Department of Telecommunication Engineering, BNM Institute of Technology, Bangalore, India¹

BE, Mechatronics Engineering, VTU, Belagavi, India²

BE, CSE, BNMIT, Belagavi, India³

Student, CSE, BNMIT, Bangalore, India⁴

Student, ISE, BMSCE, Bangalore, India⁵

Abstract: In this era of the internet and the World Wide Web, almost everything-from clothing to footwear and accessories; from Electronics to electrical appliances; from furniture to home appliances; sporting goods, beauty and personal care etc. is available online. A user/customer has the privilege to view and purchase his/her required product/service. In this paper, we have made an attempt to construct a web-based portal which brings various foods and breweries prepared by various food manufacturing/processing companies or firms directly to the online customer. By duly filling the request form for delivery, a particular product is shipped to address and an automated bill is generated. MySQL is used as the back-end tool. PHP, HTML and JavaScript are the front-end development tools. CSS is responsible for the attractive appearance of the webpages. An admin login is provided to enable the administrator of the website to do the following- add new product, edit or delete product, add new employee, delete or edit employee, password settings and verify or regenerate sales report.

Keywords: web-based portal, World Wide Web, ER diagram, MySQL, database, PHP, HTML and JavaScript.

I. INTRODUCTION

Any web development is carried out in two stages- backend design and front-end design [1]. The backend of a website consists of three essential divisions- server, an application and a database [2]. A server may be a device or a computer program, which provides services to other systems in the network. It provides functionality to clients. A client uses remote services from a server. A Database is a collection of data organized in such a way that a computer program can quickly select the desired pieces of data. To access information from a database, a DBMS is required. A DBMS is a collection of programs that enables one to enter, organize and select data to/from a database. In this paper, we have used MySQL as the RDBMS [3].

Front-end design is what one (user) sees. The front-end tools used in this project are:

- HTML
- PHP
- JavaScript
- CSS

II. ER DIAGRAMS AND DF DIAGRAMS

A relational database system is a reliable way to manage huge databases in a more simpler and systematic manner.

RDBMS design consists of

- Drawing ER diagrams
- Transforming ER diagram to database schema
- Defining FDs
- Finding minimal cover and normalization
- Drawing and analyzing DF diagram

An Entity Relationship also called the ER diagram shows the relationships of entity sets stored in a database. A person can refer to the ER diagram to understand the components/entities comprising the web-based design. ER diagrams illustrate the logical structure of databases [4]. Figure 1 shows the ER diagram of this project and figure 2 shows the DF diagram.



III. METHODOLOGY

i. Apache and MySQL are started on the XAMPP control panel. XAMPP is a PHP development environment [5] where,

X-any OS
A-Apache
P-PHP
P-Perl

A green signal indicates that Apache and MySQL are active. Figure 3 shows the XAMPP control panel.

ii. Open any browser and type localhost/phpmyadmin/ in the URL and one will be directed to the 'phpMyAdmin' screen where the tables and fields are added to the project and hence building the database. Figure 4 shows the tables of the database food.

iii. Create the database food and add the following tables.

- item
- tbleaccount
- tblbill
- tblfinalbill
- tblproduct
- tblpurchases
- tblusers

iv. The above tables will contain various fields. Figure 5, figure 6, figure 7, figure 8, figure 9, figure 10 and figure 11 shows the tables item, tbleaccount, tblbill, tblfinalbill, tblproduct, tblpurchases and tblusers respectively and their respective fields.

v. To view the front-end design (index page), just enter the URL localhost/food/index using any browser.

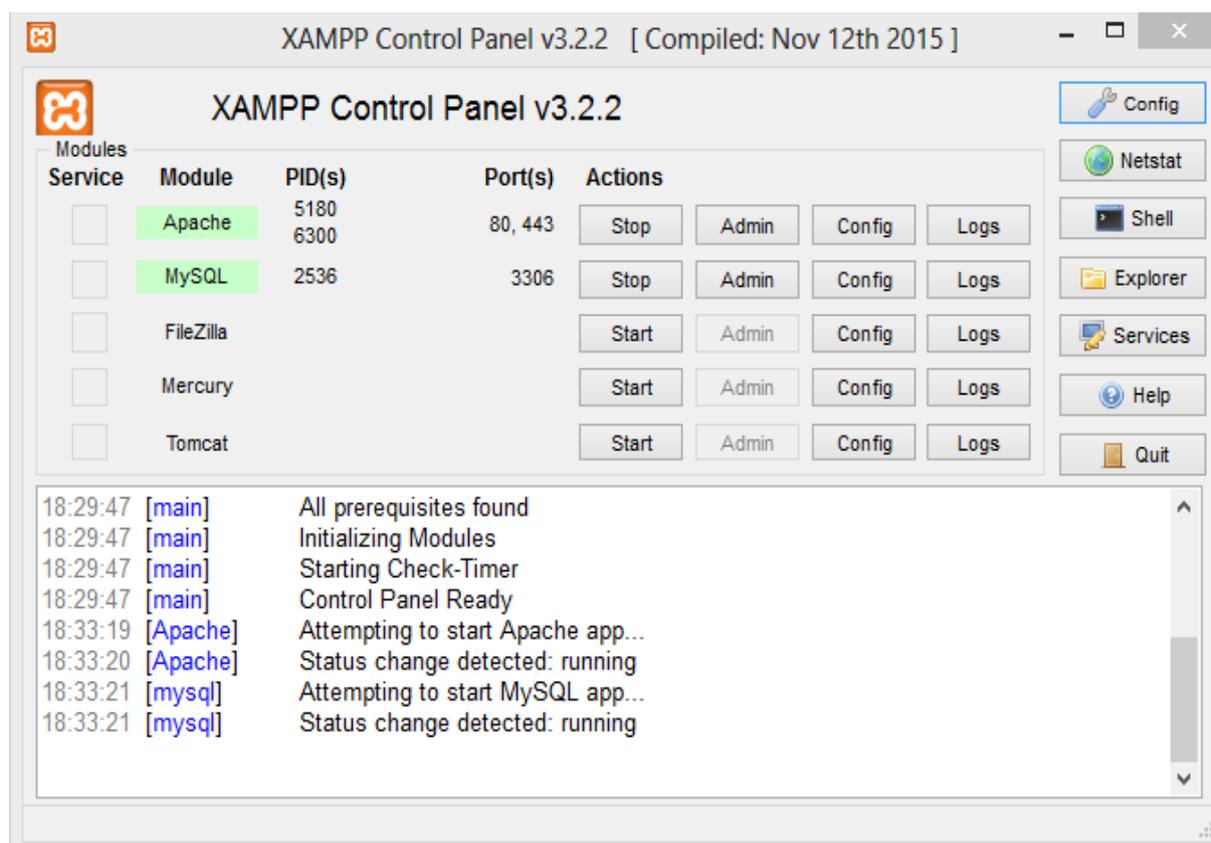


Figure 3 shows the XAMPP control panel with Apache and MySQL being activated (green indicates active)



IV. RESULTS AND FINDINGS

Figure12 shows the index page of the web based project. CSS has made the front-end part to look more attractive and systematic. Figure13 shows the product Jamoon and its cost. The quantity of this product and the vendor decides the cost of the product that is, Jamoon. Figure14 shows the product Jamoon added to cart and figure 15 shows tandoori chicken being added to cart along with Jamoon and now the gross price will be generated automatically by the system. These products can be added or removed any time before placing the final order.

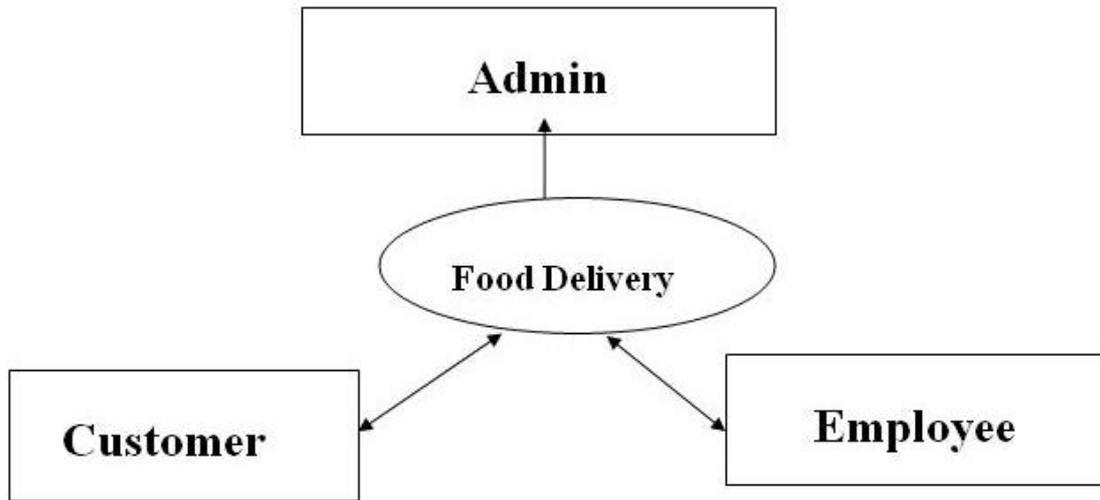


Figure 2 shows the DF diagram.

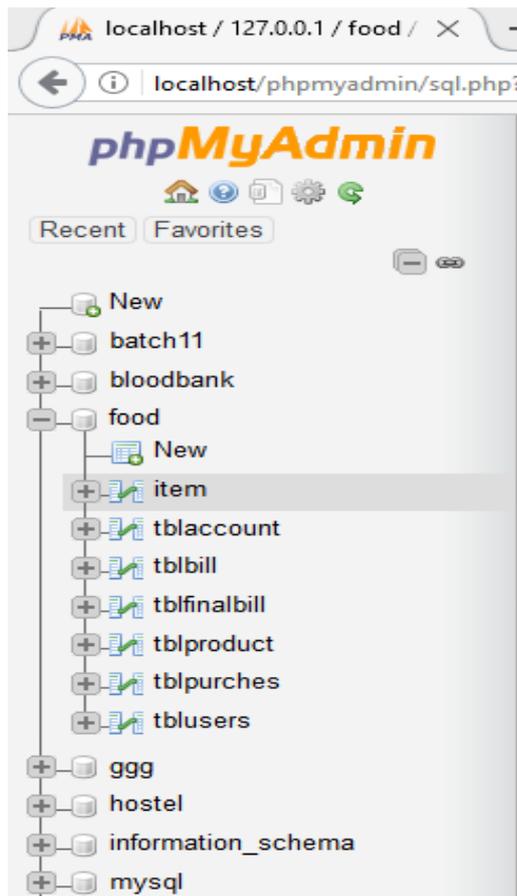


Figure 4 shows the tables of the database food.

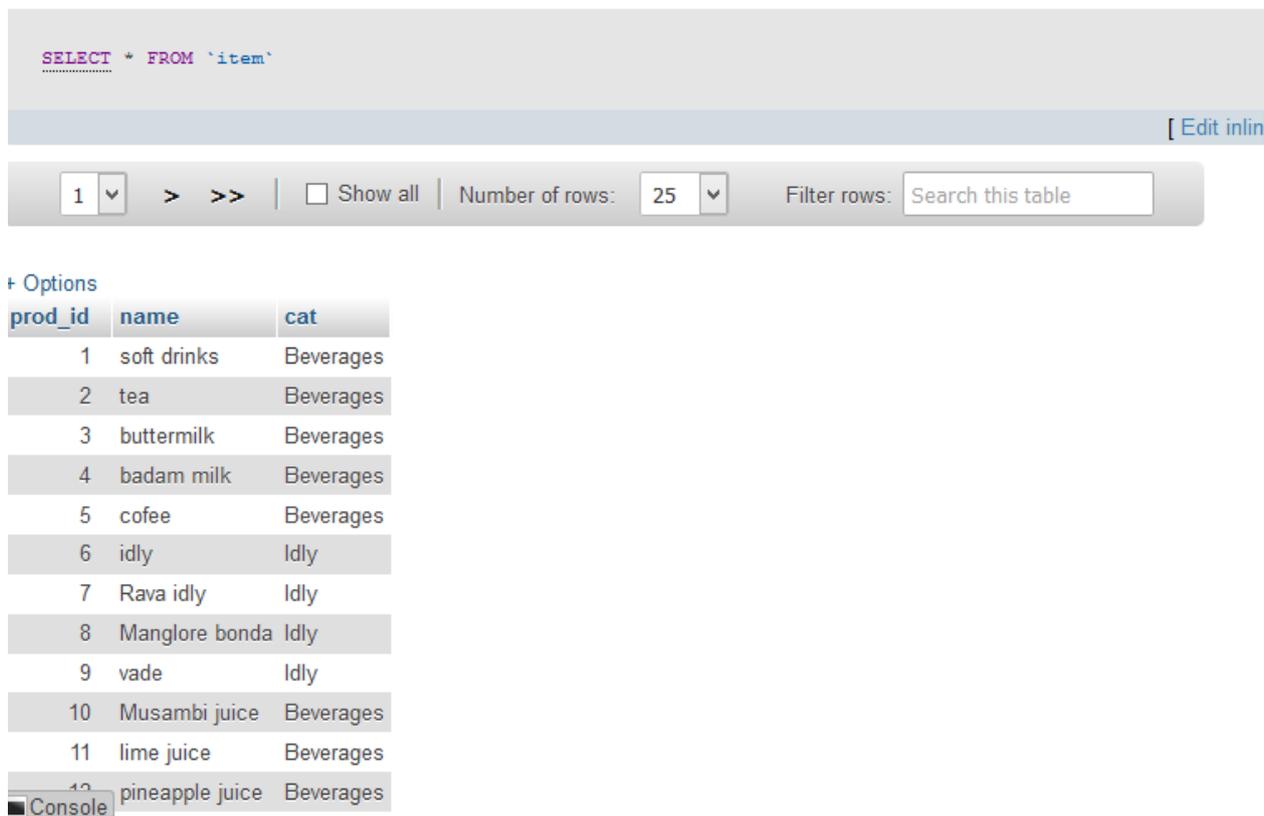


Figure 5- item table

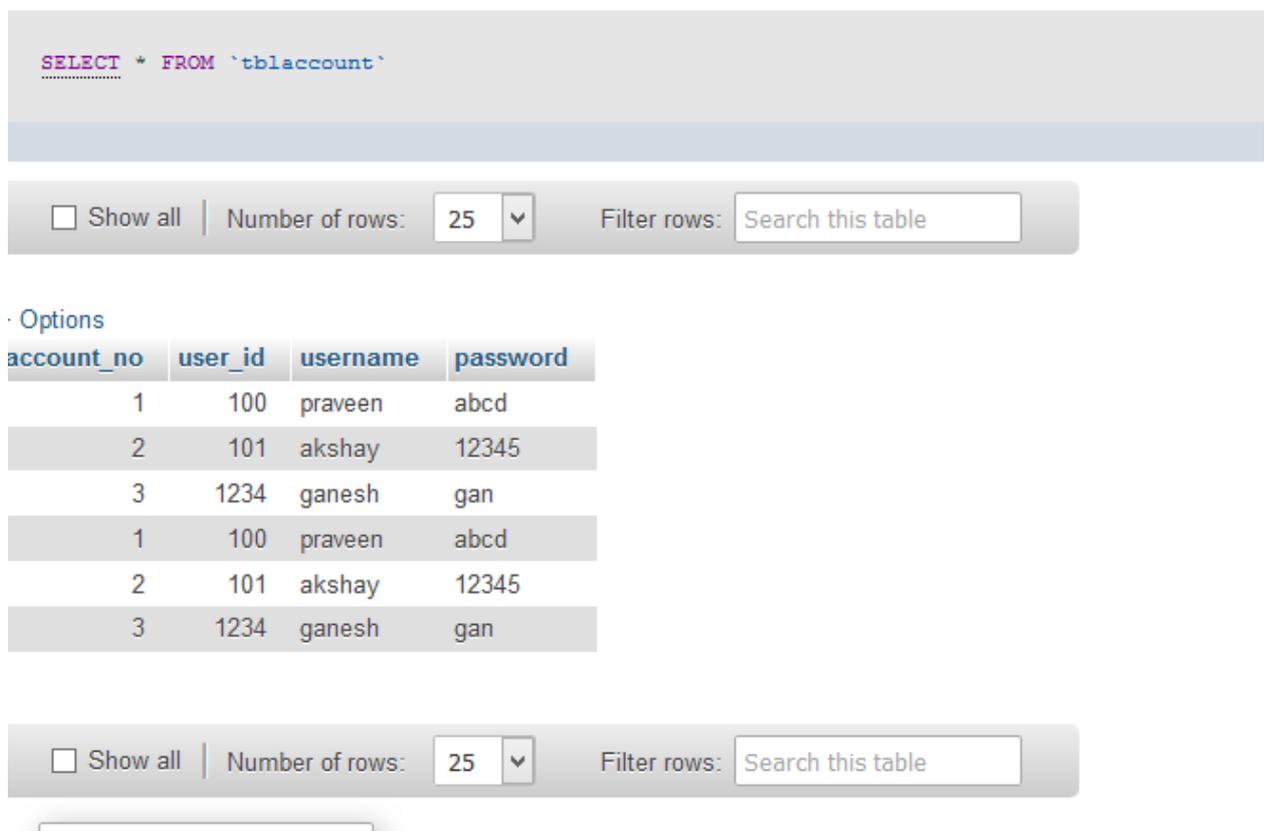


Figure 6- tblaccount table



SELECT * FROM `tblbill`

[Edit inline] [Edit] [Explain SQL]

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

+ Options

name	address	city	country	email	phone
praveen	09/a 2nd main 2nd cross sampige road	banglore	india	rhari9895@gmail.com	0986678005
suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	ganesh.srgr@gmail.com	09036166522
GANESH S	no1,2nd cross 1st main muddappa garden sriram pura...	bangalore	India	ganesh.srgr@gmail.com	+918123459991
suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	raju1791997@gmail.com	09036166522
suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	raju1791997@gmail.com	09036166522
suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	raju1791997@gmail.com	09036166522
suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	raju1791997@gmail.com	09036166522
jyothi	soldevanahalli	banglore	india	rhari9895@gmail.com	9876665478
jyothi	soldevanahalli	banglore	india	rhari9895@gmail.com	7204582118
jyothi	soldevanahalli	banglore	india	rhari9895@gmail.com	7204582118
jyothi	soldevanahalli	banglore	india	rhari9895@gmail.com	7204582118
jyothi	soldevanahalli	banglore	india	rhari9895@gmail.com	7204582118

Figure 7- tblbill table

Showing rows 0 - 8 (9 total, Query took 0.0628 seconds.)

SELECT * FROM `tblfinalbill`

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

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

+ Options

date	times	name	address	city	country	email	phone	prod_id	prod_name	prod_quan	prod_price	pr
0000-00-00	00:00:	praveen	09/a 2nd main 2nd cross sampige road	banglore	india	rhari9895@gmail.com	0986678005	81	idly	1	22	22.
0000-00-00	00:00:	suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	ganesh.srgr@gmail.com	09036166522	1	soft drinks	1	30	30.
0000-00-00	00:00:	GANESH S	no1,2nd cross 1st main muddappa garden sriram pura...	bangalore	India	ganesh.srgr@gmail.com	+918123459991	40	badam milk	1	15	15
2015-03-21	00:00:	suresh kumar m.s	no35/2 2nd cross kallappa block ramchandrapuram	bangalore	India	raju1791997@gmail.com	09036166522	16	tea	1	30	30
2015-03-21	00:00:	jyothi	soldevanahalli	banglore	india	rhari9895@gmail.com	7204582118	141	plain dosa	1	31	14

Figure 8- tblfinalbill table

Showing rows 0 - 24 (422 total, Query took 0.0459 seconds.)

SELECT * FROM `tblproduct`

[Edit inline] [Edit] [Explain SQL]

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

+ Options

prod_no	prod_id	prod_name	prod_descr	prod_cat	prod_price	prod_quan	date_added
36	1	soft drinks	hallimane	Beverages	30	All time	2015-02-27 20:19:45
49	2	soft drinks	adupadi	Beverages	30	All time	2015-02-28 10:44:45
50	3	soft drinks	amrutham	Beverages	30	All time	2015-02-28 10:45:30
51	4	soft drinks	anjappar	Beverages	30	All time	2015-02-28 10:46:10
52	5	soft drinks	annapoorani	Beverages	30	All time	2015-02-28 10:47:59
53	6	soft drinks	athityam	Beverages	30	All time	2015-02-28 10:48:41
54	7	soft drinks	coconut grove	Beverages	60	All time	2015-02-28 10:49:44
55	8	soft drinks	CTR, 7thcross,margosaroad,malleshwaram banglore-2...	Beverages	30	All time	2015-02-28 10:51:34
57	9	soft drinks	juniorcuppana	Beverages	26	All time	2015-02-28 10:52:59
58	10	soft drinks	MTR	Beverages	30	All time	2015-02-28 10:53:54
59	11	soft drinks	shreekrishnakafe	Beverages	30	All time	2015-02-28 10:55:26

Figure 9- tblproduct table



```
SELECT * FROM `tblpurches`
```

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

+ Options

prod_id	prod_name	prod_quan	prod_price	prod_total
15	tea	1	30	200
15	tea	1	30	200
15	tea	1	30	200
373	elaneer payasam	1	110	110
373	elaneer payasam	5	110	550
18	tea	1	35	35
372	elaneer payasam	1	70	70
293	navaratna kurma	1	100	100
136	plain dosa	1	60	60
370	gulab jamoon	1	40	160
58	cofee	1	8	8
387	chicken biriyani	1	330	362
328	chettinad chicken fry	1	165	3167
64	idly	1	40	40

Figure 10- tblpurches table

```
SELECT * FROM `tblusers`
```

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

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

+ Options

user_no	user_id	fname	mname	lname	no_street	city	contact_no	dob	age	gender	user_type
1	100	praveen		raja	667/a 2nd main,2nd cross prakashnagar	banglore	8888888889	1995-02-13	20		Administrator
2	101	akshay		H.N	tdasarahalli	banglore	8553767024	1995-07-25	20	male	Clerk
3	1234	GANESH	kumar	S	no1,2nd cross 1st main muddappa garden sriram pura	bangalore	8123459991	0000-00-00	20	Male	Clerk

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

Figure 11- tblusers table

V. CONCLUSIONS

Any web-based portal consists of two main divisions- the front-end design and the back-end design. Our first aim was to create a database and add tables to the database. Several fields were added to the tables and they constitute the necessary information needed for the application. MySQL was the RDBMS used and constitutes the backend of the project. The back-end or server-side scripting were done with intensions of a broader motto- later updates and editing.



The front-end design or the client side scripting was done using HTML, JavaScript, PHP and CSS. Due to the efficient use of CSS, the front-end is seen to be more attractive in design and is the need of the day. XAMPP control panel was used to run the Apache and the MySQL server on it. The admin login and admin rights will be explained in detail in the next paper. The admin enjoys many privileges as compared to the user and he plays a major role in the real time running of the web-portal.



Figure12 shows the index page of the web based project.

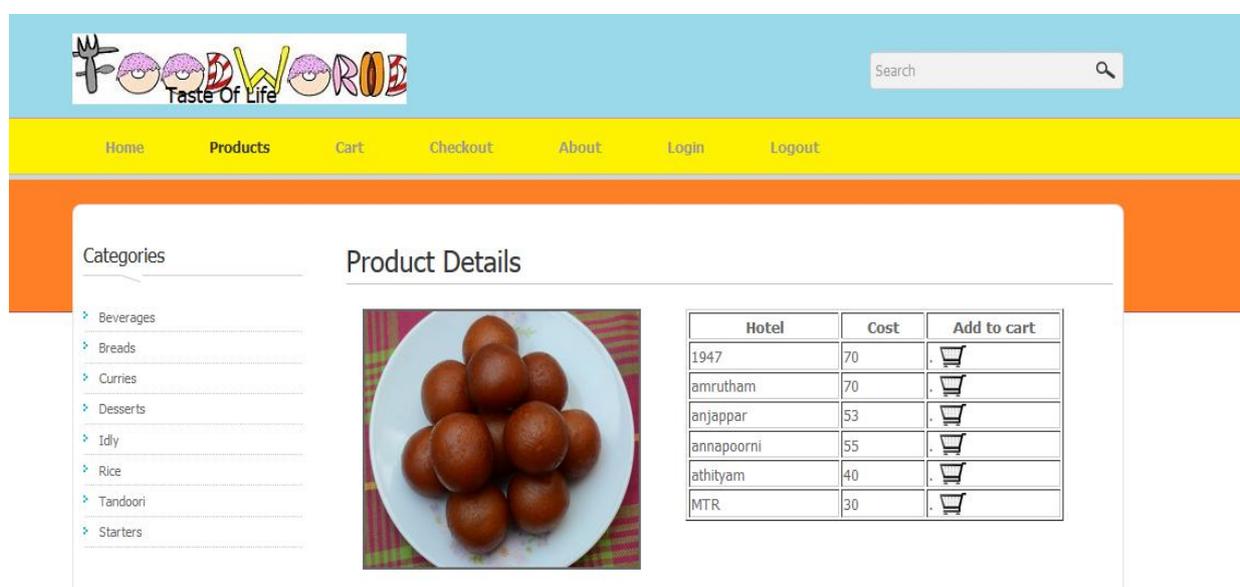


Figure13 shows the product Jamoon and its cost. The quantity of this product and the vendor decides the cost of the product that is, Jamoon.

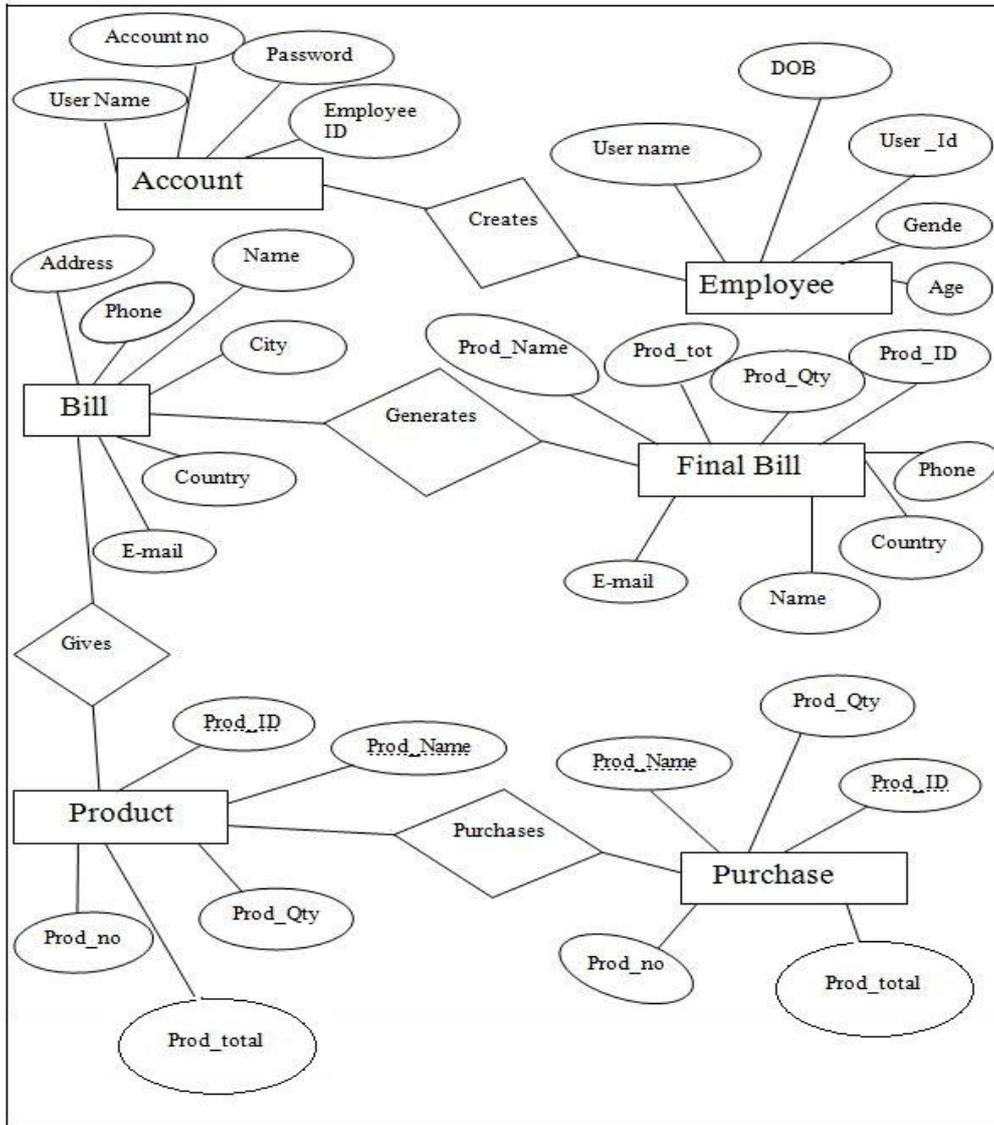


Figure 1 shows the ER diagram of the project

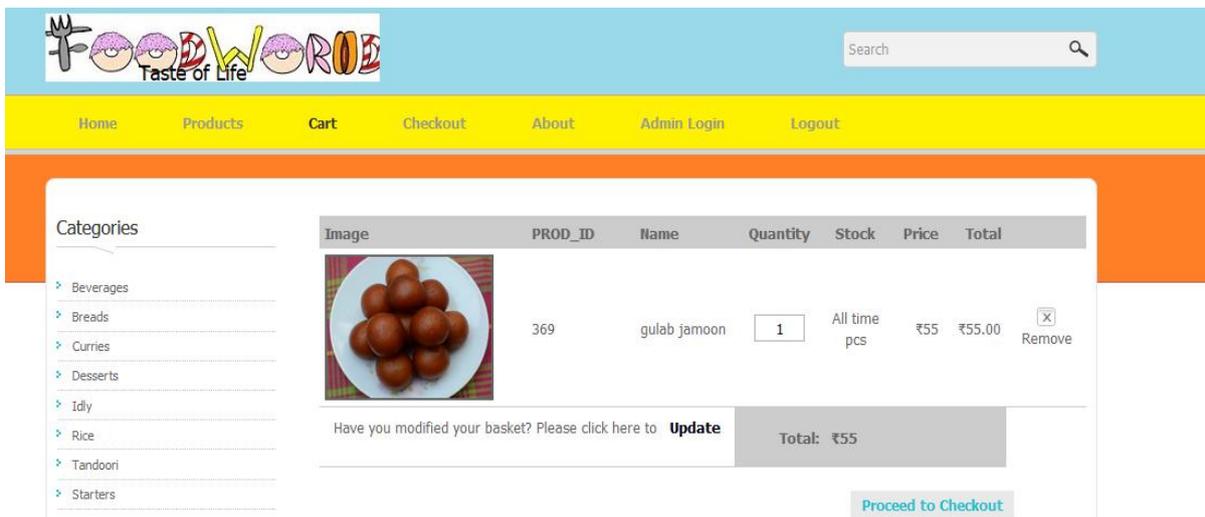
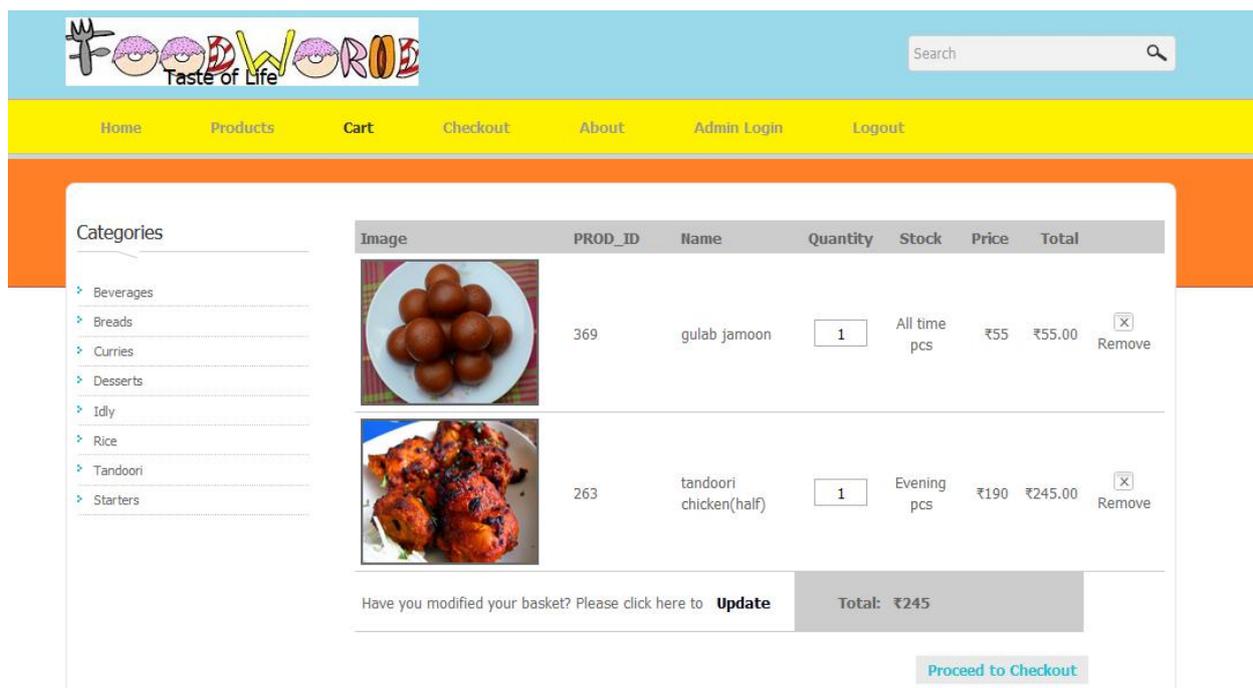


Figure14 shows the product Jamoon added to cart



The screenshot shows a shopping cart with the following items:

Image	PROD_ID	Name	Quantity	Stock	Price	Total	
	369	gulab jamoon	1	All time pcs	₹55	₹55.00	<input type="checkbox"/> Remove
	263	tandoori chicken(half)	1	Evening pcs	₹190	₹245.00	<input type="checkbox"/> Remove

Have you modified your basket? Please click here to **Update** **Total: ₹245**

[Proceed to Checkout](#)

Figure 15 shows tandoori chicken being added to cart along with Jamoon

REFERENCES

- [1] Web-Based Portal for Online Shopping- DOI10.17148/IJARCCE.2017.6825
- [2] Comer, Douglas E.; Stevens, David L. (1993). Vol III: Client-Server Programming and Applications. Internetworking with TCP/IP. Department of Computer Sciences, Purdue University, West Lafayette, IN 479: Prentice Hall. pp. 11d. ISBN 0-13-474222-2.
- [3] Kroenke, David M. and David J. Auer. Database Concepts. 3rd ed. New York: Prentice, 2007.
- [4] Articulated Entity Relationship Diagram for Complete Automation of Relational Database Normalization- <http://airccse.org/journal/ijdms/papers/0510ijdms06.pdf>
- [5] XAMPP Installers and Downloads for Apache Friends- <https://www.apachefriends.org/>

BIOGRAPHY



VISHESH S born on 13th June 1992, hails from Bangalore (Karnataka) and has completed B.E in Telecommunication Engineering from VTU, Belgaum, Karnataka in 2015. He also worked as an intern under Dr. Shivananju BN, former Research Scholar, Department of Instrumentation, IISc, Bangalore. His research interests include Embedded Systems, Wireless Communication, BAN and Medical Electronics. He is also the Founder and Managing Director of the corporate company Konigtronics Private Limited. He has guided over a hundred students/interns/professionals in their research work and projects. He is also the co-author of many International Research Papers. He is currently pursuing his MBA in e-Business and PG diploma in International Business. Presently

Konigtronics Private Limited has extended its services in the field of Software Engineering and Webpage Designing. Konigtronics also conducts technical and non-technical workshops on various topics.