

**Pune Institute of Computer Technology
Dhankawadi, Pune**

**A MINI-PROJECT REPORT
ON**

BBQ HOUSE- ONLINE RESTAURANT SYSTEM

SUBMITTED BY

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Class TE-2

Under the guidance of
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**DEPARTMENT OF COMPUTER ENGINEERING
Academic Year 2019-20**



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CERTIFICATE

This is to certify that the mini-project report entitled

“BBQ House- Online Restaurant System”

Submitted by
Shrut Shah Roll No. 31264

has satisfactorily completed a seminar report under the guidance of
Prof. P. J. Jambhulkar towards the partial fulfillment of third year
Computer Engineering Semester II, Academic Year 2019-20 of
Savitribai Phule Pune University.

Prof. P. J. Jambhulkar
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Place:
Date:

Contents

1	Project Idea and Functional Requirements	1
1.1	Project Idea:	1
1.2	Functional Requirements:	1
2	DESIGN	2
2.1	Use case diagram	2
2.2	Database Structure	3
3	SOURCE CODE AND SCREENSHOTS	4
3.1	Source code	4
3.2	Working Screenshots	5
4	DEPLOYMENT	9
5	Testing	10
5.1	Functionality Testing	10
5.2	Usability Testing	10
5.3	Interface Testing	10
5.4	Database Testing	10
5.5	Usability Testing	10
5.6	Alternatives to Manual Testing	10
6	CONCLUSION AND FUTURE SCOPE	11
	References	12

List of Tables

List of Figures

1	Use Case Diagram	2
2	Database structure	3
3	Code snippet	4
4	Index page	5
5	Sign up page	5
6	Login page	6
7	Menu	6
8	Order and Bill	7
9	Table Booking	7
10	About	8
11	Checkout	8
12	Deployment	9

1 Project Idea and Functional Requirements

1.1 Project Idea:

BBQ House is an online web application for a restaurant. Customers can register and login to view the menu, place orders or even book tables for a given date. The user can experience table booking and food ordering facilities while sitting at home. Details about restaurant are also displayed with different branches and history.

1.2 Functional Requirements:

With this website, user can:

- Register to the website
- Login to the website
- View the menu
- Place food orders
- Calculate bill of current order
- Book a table
- View details of the restaurant on "About Us" page

2 DESIGN

2.1 Use case diagram

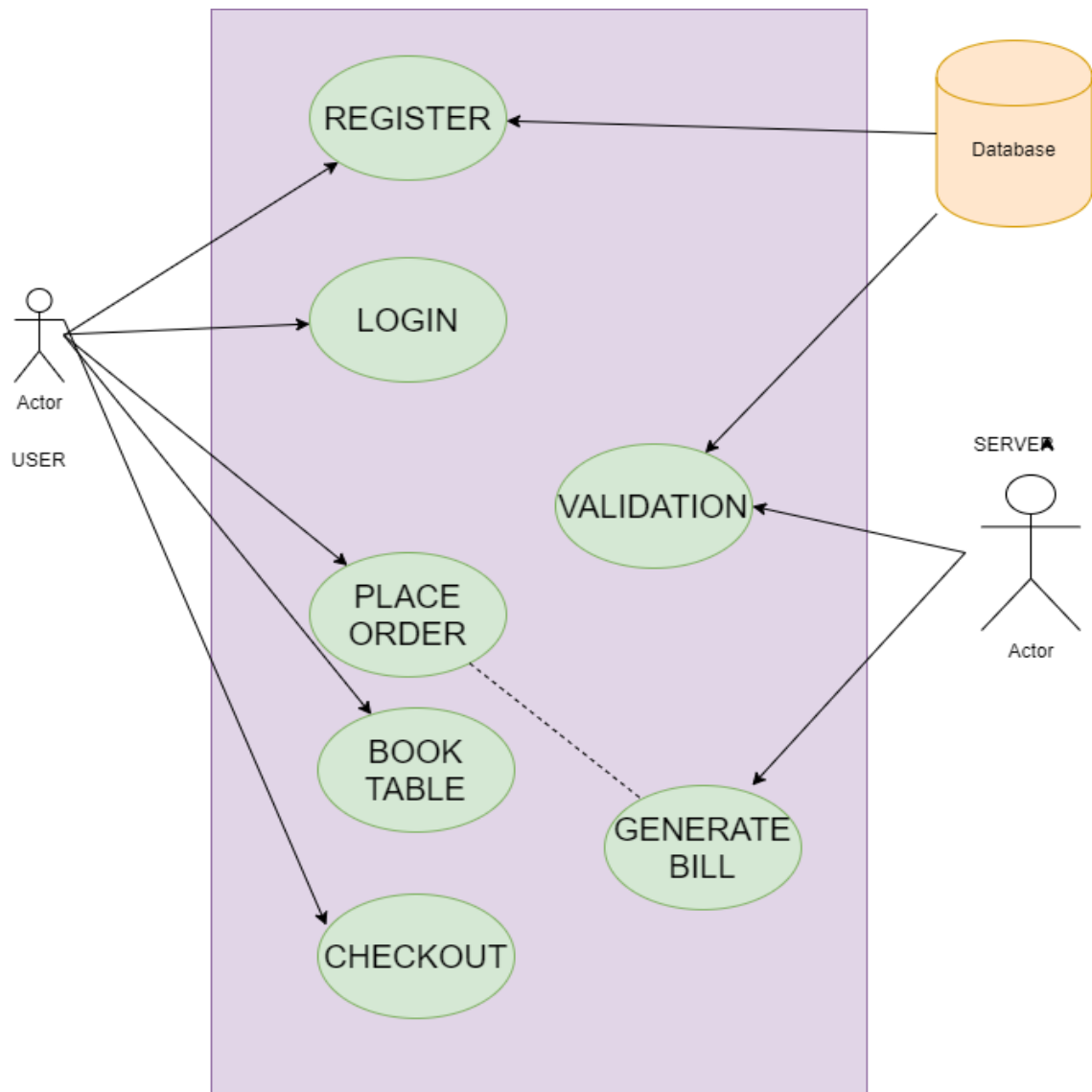


Figure 1: Use Case Diagram

2.2 Database Structure

```

MySQL 5.5 Command Line Client
Server version: 5.5.42 MySQL Community Server (GPL)

Copyright (c) 2000, 2015, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bbqhouse;
Database changed
mysql> show tABLES;
+-----+
| Tables_in_bbqhouse |
+-----+
| bookings            |
| items               |
| orderdetails        |
| orders              |
| user                |
+-----+
5 rows in set (0.29 sec)

mysql> describe bookings;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| bookingid  | varchar(50)   | NO   | PRI |          |       |
| username   | varchar(50)   | YES  | MUL | NULL     |       |
| noofguests | int(11)       | YES  |     | NULL     |       |
| date       | date          | YES  |     | NULL     |       |
| timeslot   | varchar(50)   | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.31 sec)

mysql> describe items;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| itemid     | varchar(20)   | NO   | PRI |          |       |
| price      | double(10,2)  | YES  |     | NULL     |       |
| item       | varchar(50)   | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.30 sec)

mysql> describe user;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| fname      | varchar(50)   | YES  |     | NULL     |       |
| lname      | varchar(50)   | YES  |     | NULL     |       |
| username   | varchar(50)   | NO   | PRI |          |       |
| email      | varchar(128)  | YES  |     | NULL     |       |
| password   | varchar(50)   | YES  |     | NULL     |       |
| contact    | varchar(20)   | YES  |     | NULL     |       |
| address    | varchar(128)  | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+

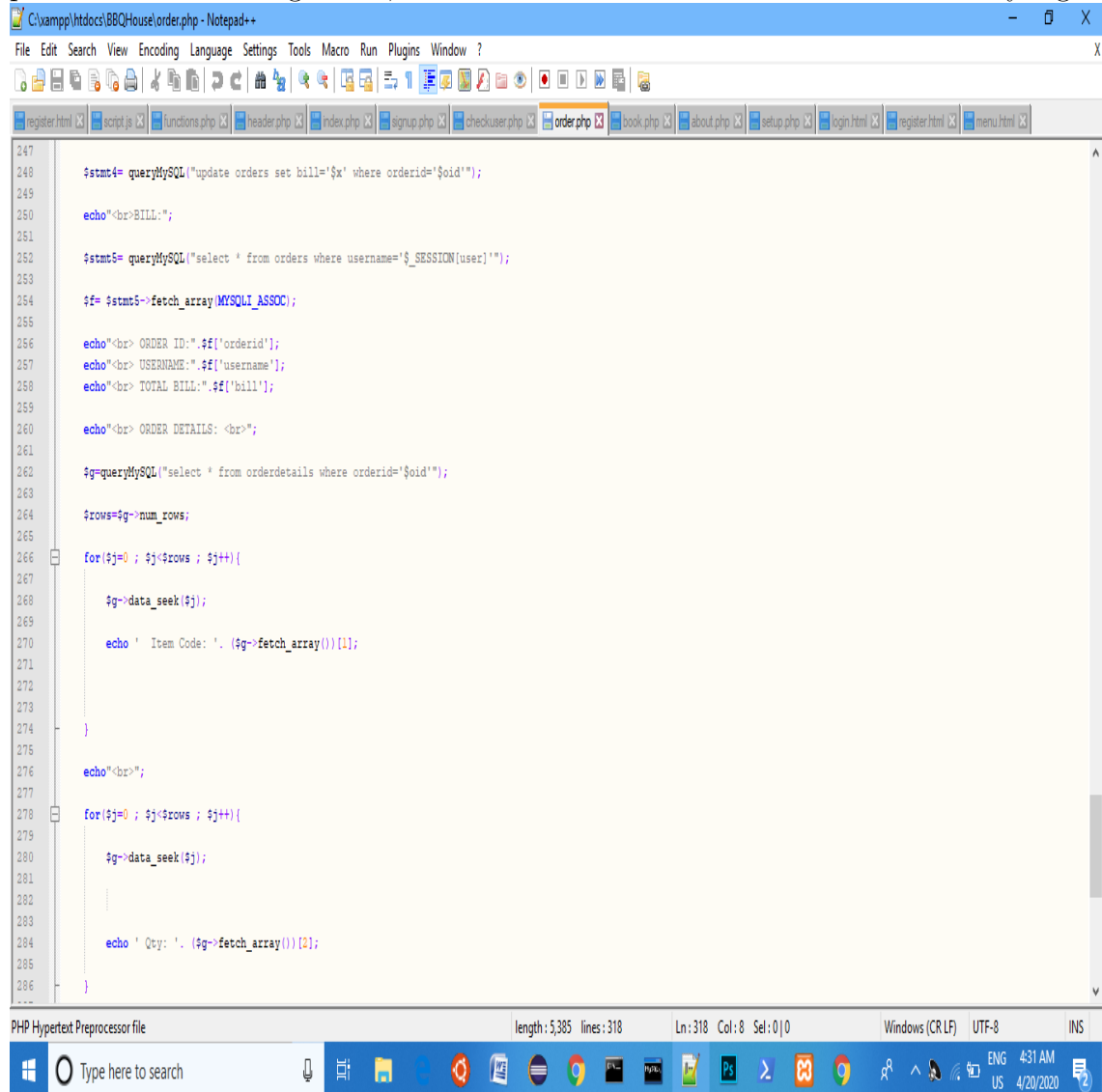
```

Figure 2: Database structure

3 SOURCE CODE AND SCREENSHOTS

3.1 Source code

System is designed using PHP, MySQL, AJAX and components from AngularJS, HTML for data and CSS for styling.



```

247
248 $stmt4= queryMySQL("update orders set bill='$x' where orderid='$oid'");
249
250 echo"<br>BILL:";
251
252 $stmt5= queryMySQL("select * from orders where username='$_SESSION[user]'");
253
254 $f= $stmt5->fetch_array(MYSQL_ASSOC);
255
256 echo"<br> ORDER ID:". $f['orderid'];
257 echo"<br> USERNAME:". $f['username'];
258 echo"<br> TOTAL BILL:". $f['bill'];
259
260 echo"<br> ORDER DETAILS: <br>";
261
262 $g=queryMySQL("select * from orderdetails where orderid='$oid'");
263
264 $rows=$g->num_rows;
265
266 for($j=0 ; $j<$rows ; $j++){
267
268     $g->data_seek($j);
269
270     echo ' Item Code: '. ($g->fetch_array())[1];
271
272
273
274 }
275
276 echo"<br>";
277
278 for($j=0 ; $j<$rows ; $j++){
279
280     $g->data_seek($j);
281
282
283
284     echo ' Qty: '. ($g->fetch_array())[2];
285
286 }
  
```

PHP Hypertext Preprocessor file | length: 5,385 | lines: 318 | Ln: 318 | Col: 8 | Sel: 0 | 0 | Windows (CR LF) | UTF-8 | INS

Type here to search

ENG US 4/20/2020 4:31 AM

Figure 3: Code snippet
Full source code has been sent separately in a folder.

3.2 Working Screenshots

1. Index page

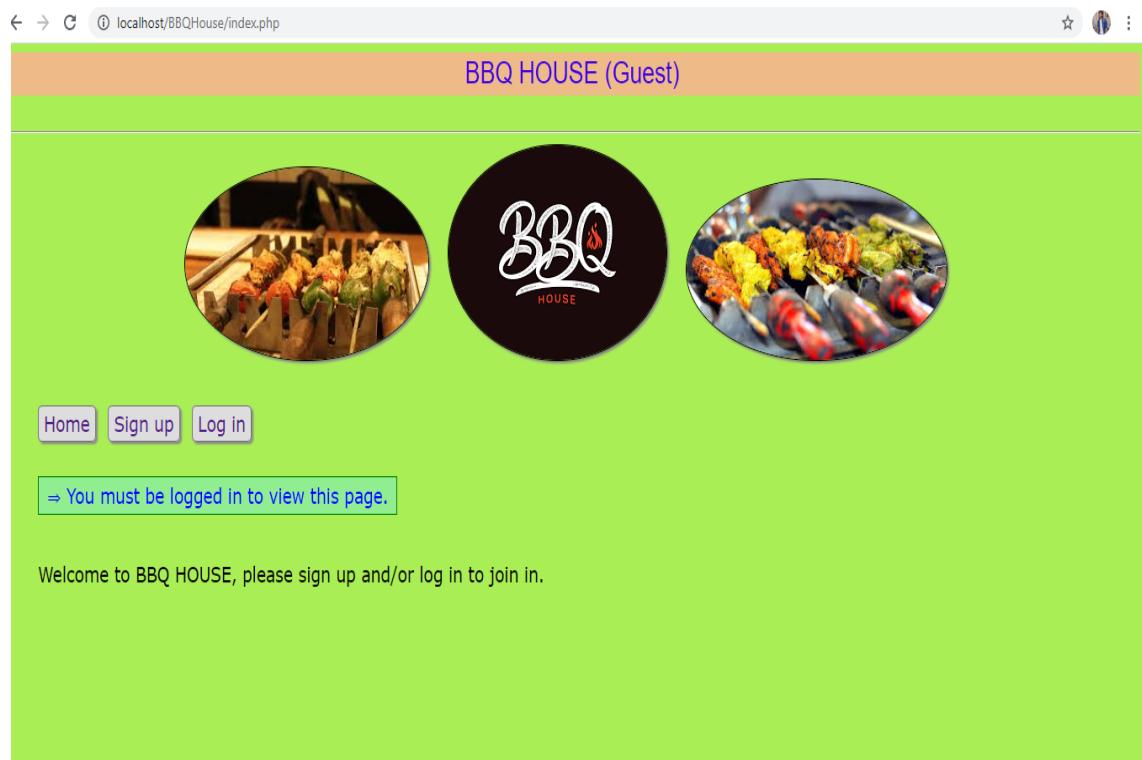


Figure 4: Index page

2. Sign up

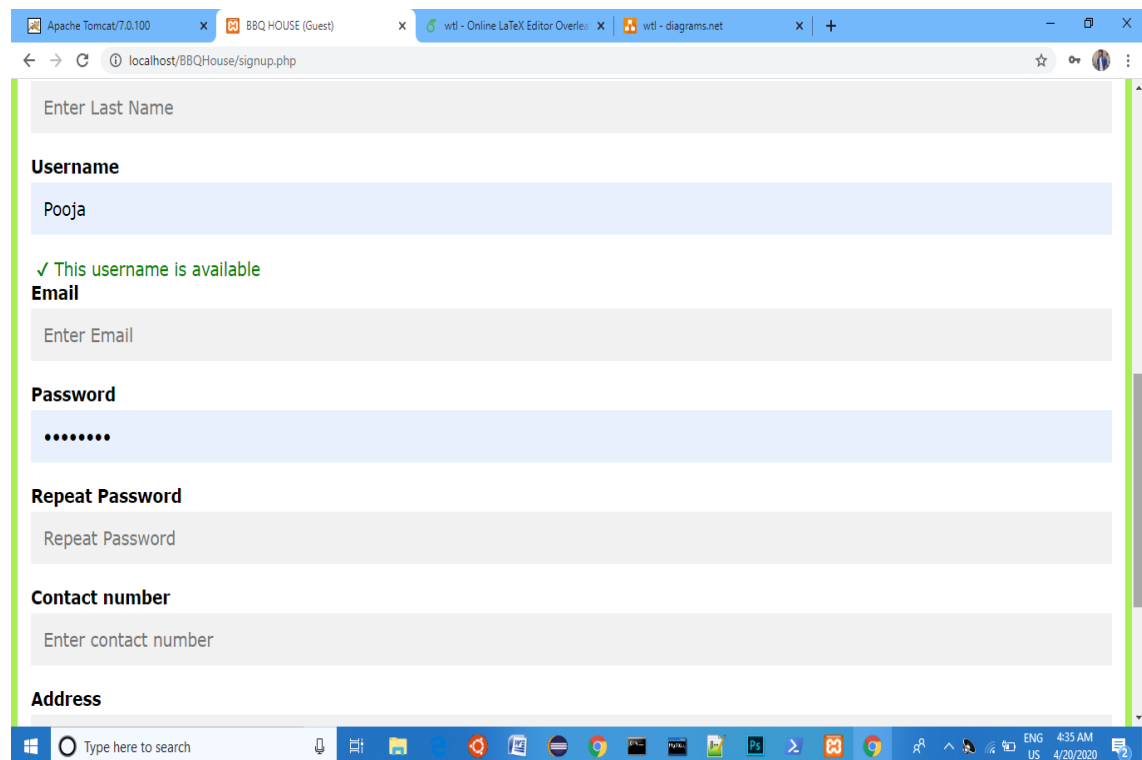


Figure 5: Sign up page

3. Login

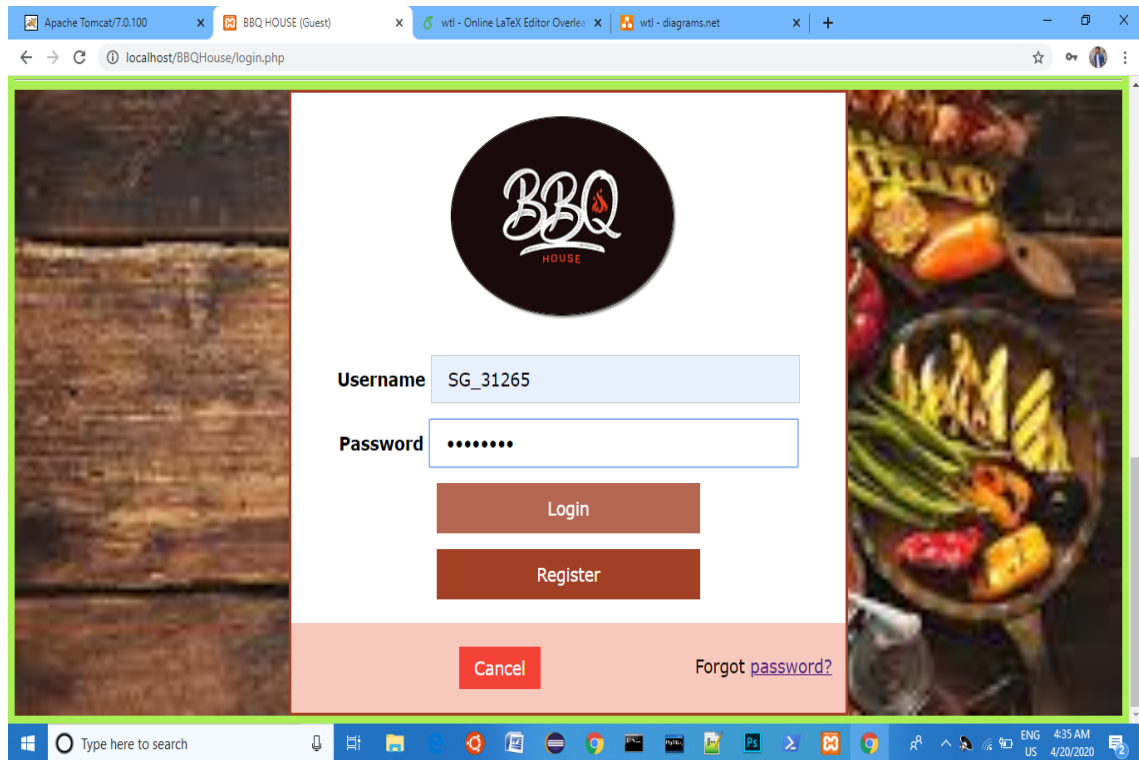


Figure 6: Login page

4. Menu

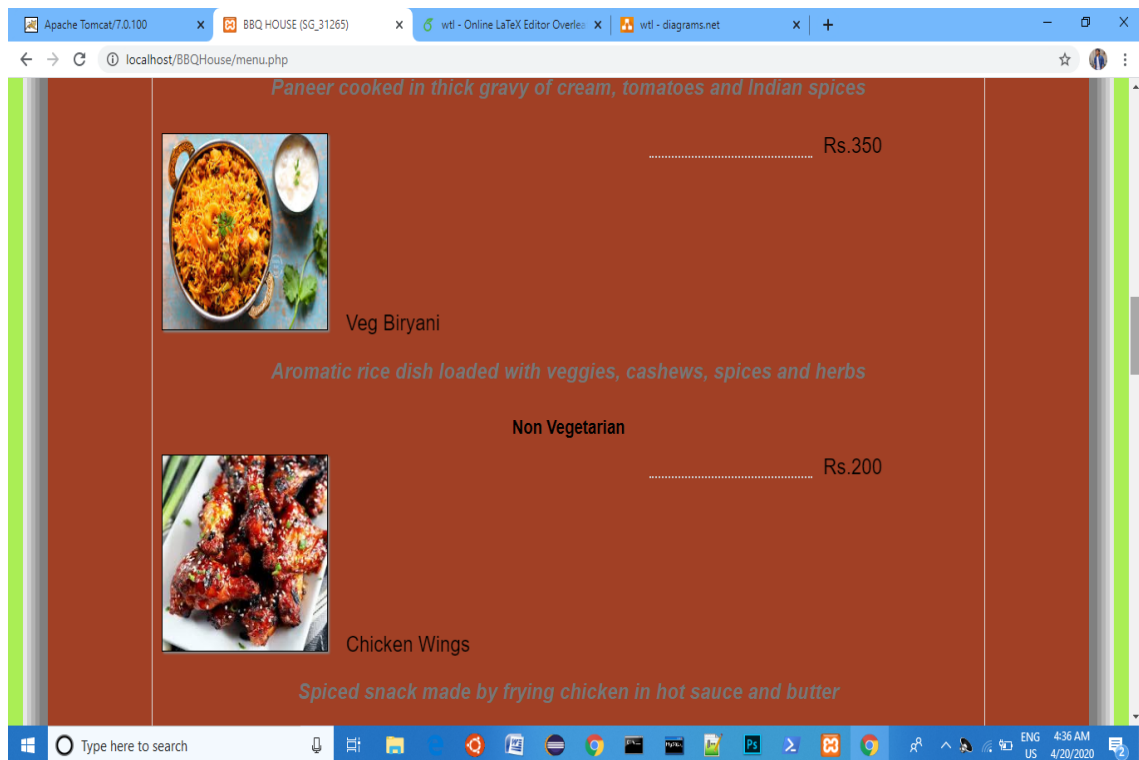


Figure 7: Menu

5. Order and Bill

Home Menu Card Order Book Table About Us Checkout

ADD TO CART

Item	Price	Qty	Add
Choose Item: Crispy Corn	250.00	0	ADD

● FINAL BILL

" Order id: 7
 Amount to be paid: 500.00
 BILL:
 ORDER ID: 1
 USERNAME: SG_31265
 TOTAL BILL: 750.00
 ORDER DETAILS:
 Item Code: D02B
 Qty: 2
 Amount: 500.00

CURRENT ITEM

Item Id	Qty	Total
D02B	2	500

Figure 8: Order and Bill

6. Book Table

Home Menu Card Order Book Table About Us Checkout

Find a table

Choose number of guests: 1-2 Select date: mm/dd/yyyy Choose timeslot: 11 am BOOK

Thank you for booking with us!

Booking details:

Booking Id: 552;
 Username: SG_31265;
 Table for: max 2 guests;
 Date: 2020-04-14;
 Timeslot: 8pm;

Figure 9: Table Booking

7. About

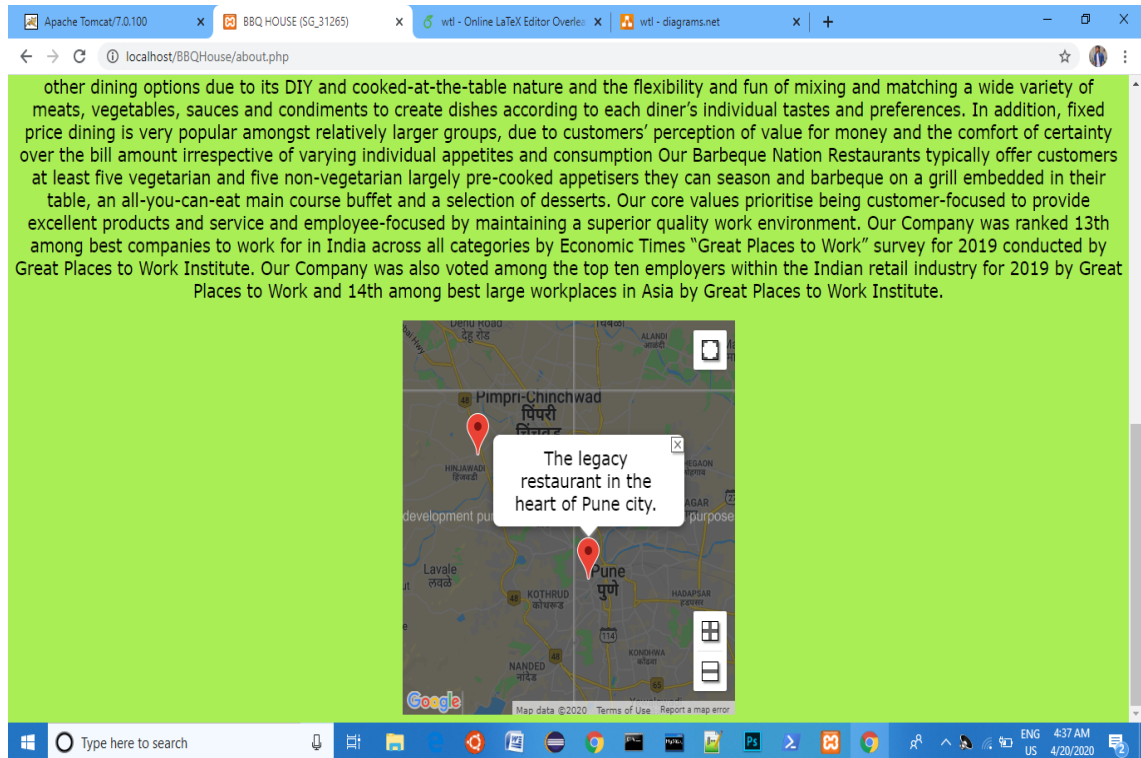


Figure 10: About

8. Check out

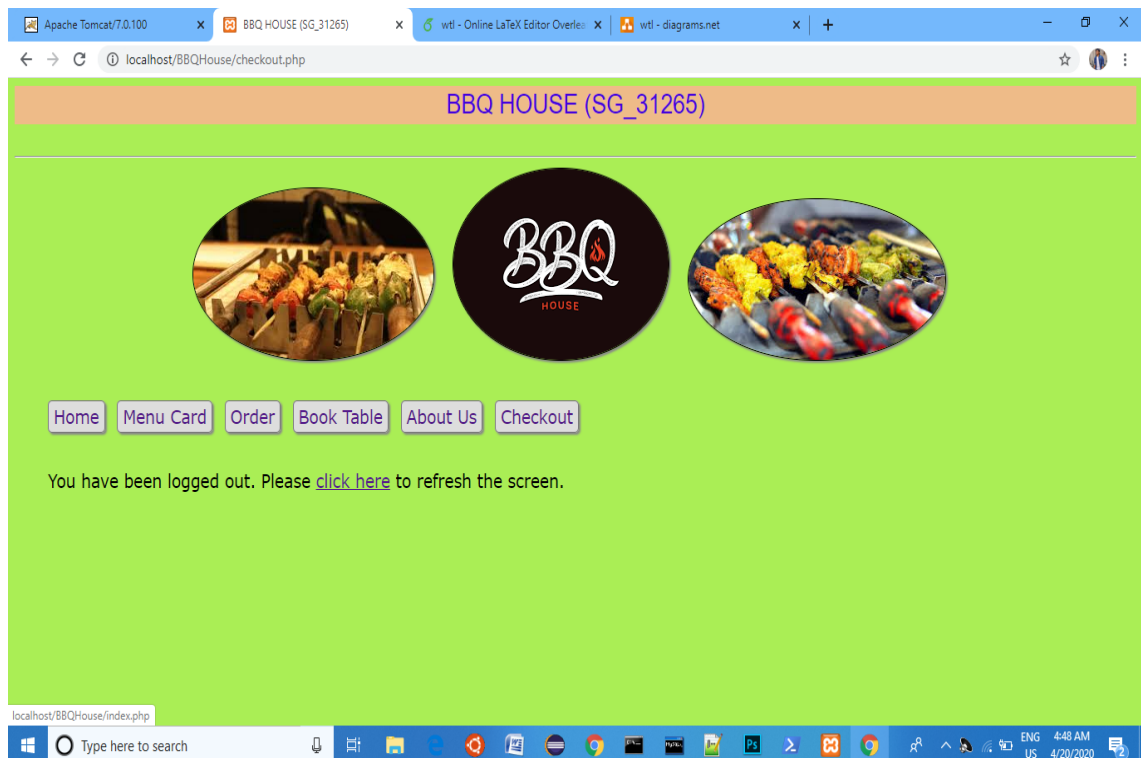


Figure 11: Checkout

Detailed working screenshots included separately

4 DEPLOYMENT

Steps for deployment

- Start xampp server on Windows/ lamp on Linux machines
- Apache web sever is used for deployment
- Notepad++ was used as text editor to write php files
- MySQL database is used to store user details
- AngularJS is used to display map in "About Us" page
- Client side validation is done using Javascript
- Server side validation is done using PHP and MySQL connection
- AJAX is used to check dynaminc availability of username.
- HTML to display data
- Inline, external CSS for styling

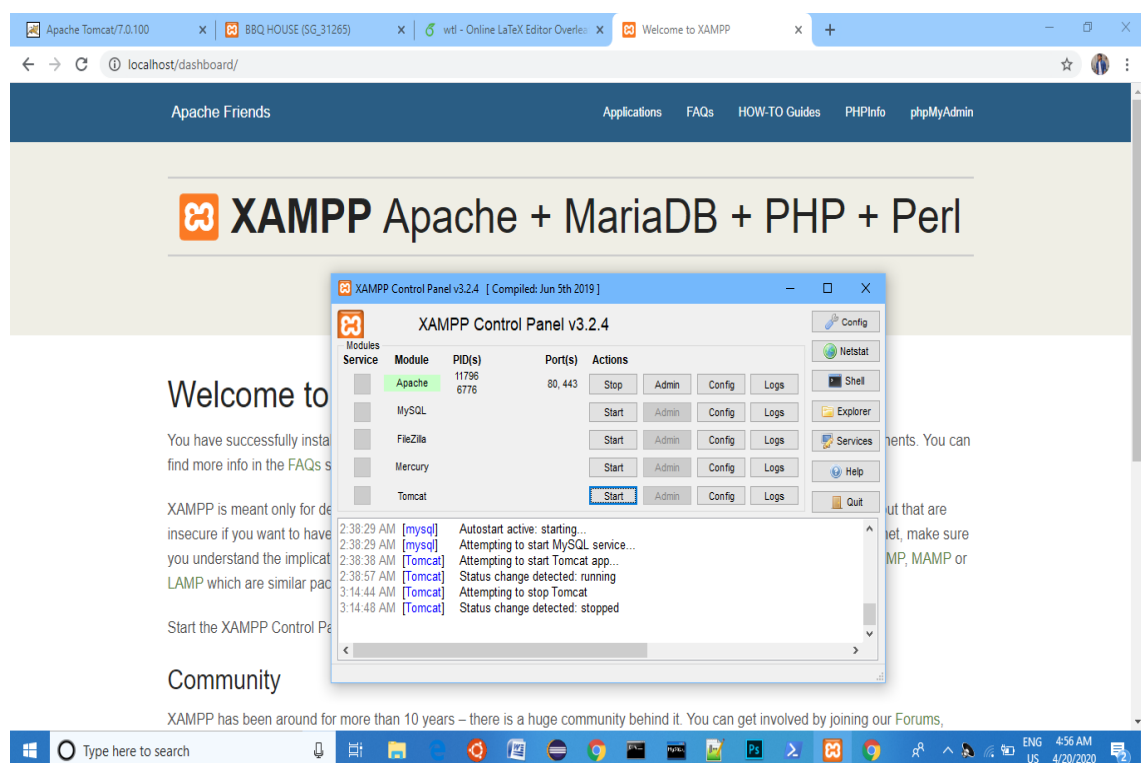


Figure 12: Deployment

5 Testing

5.1 Functionality Testing

- Tested all outgoing links, anchors and buttons.
- Session cookie tested- On checkout session details are reset
- Tested HTML/CSS- included proper stylesheets.
- Business flow testing- End to end workflow tested manually.

5.2 Usability Testing

- Tested the site navigations.
- Content testing.
- Images with alt text.

5.3 Interface Testing

- Application requests interact with DB properly
- Apache Web Server functioning properly.
- MySQL DB server working.

5.4 Database Testing

- Integrity maintained
- Responses retrieved accurately
- Response time is fine

5.5 Usability Testing

- Tested the site navigations.
- Content testing.
- Images with alt text.

5.6 Alternatives to Manual Testing

- PHPUnit for PHP tests.
- Mocha and Chai to test Javascript modules.
- Jasmine and Karma to test AngularJS modules.

6 CONCLUSION AND FUTURE SCOPE

Implemented a web application for online restaurant food ordering and table booking system. Technologies used were PHP, MySQL, Javascript, HTML, CSS, AJAX, AngularJS and Apache web server(XAMPP).

Future scope:

- Real Time position tracking module to setup delivery system
- Including real time payments.
- Including peer reviews.
- Scaling the application to include similar kind of restaurants.

References

- [1] Robin Nixon, "Learning PHP, MySQL and Javascript with JQuery, CSS and HTML5" O'Reilly , Edition 4, 2014.
- [2] Shyam Seshadri and Brad Green, "AngularJS Up and Running" O'Reilly, Edition 1, September 2014.