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

DEPARTMENT OF COMPUTER ENGINEERING

Pune Institute of Computer Technology

Dhankawadi, Pune-43

CERTIFICATE

This is to certify that the mini-project report entitled

"BBQ House- Online Restaurant System"

Submitted by

Shubhankar Gaikwad Roll No. 31265

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
Internal Guide

Prof. M.S.Takalikar
Head
Department of Computer Engineering

Place:
Date:

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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

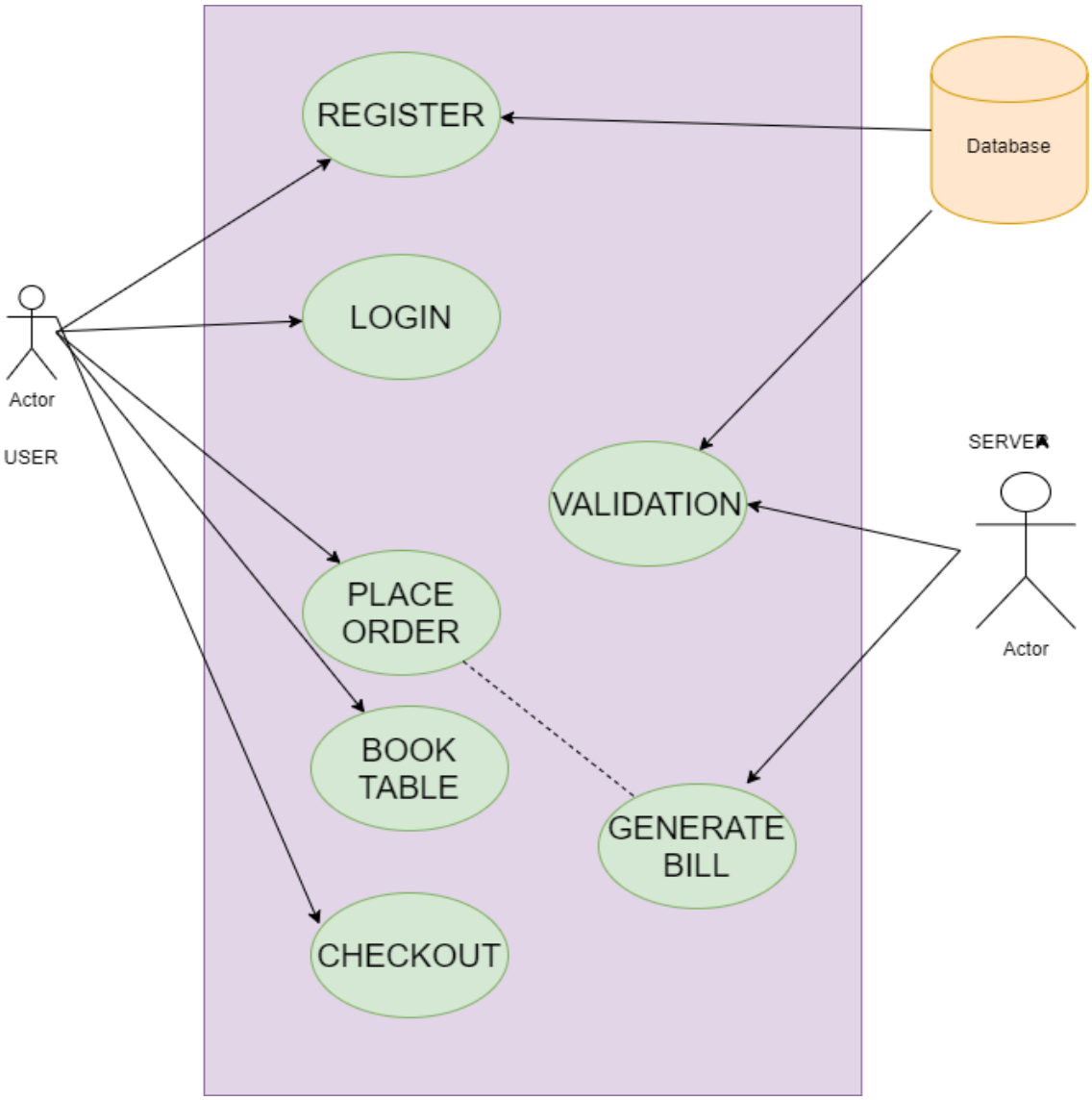

Figure 1: Use Case Diagram

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.

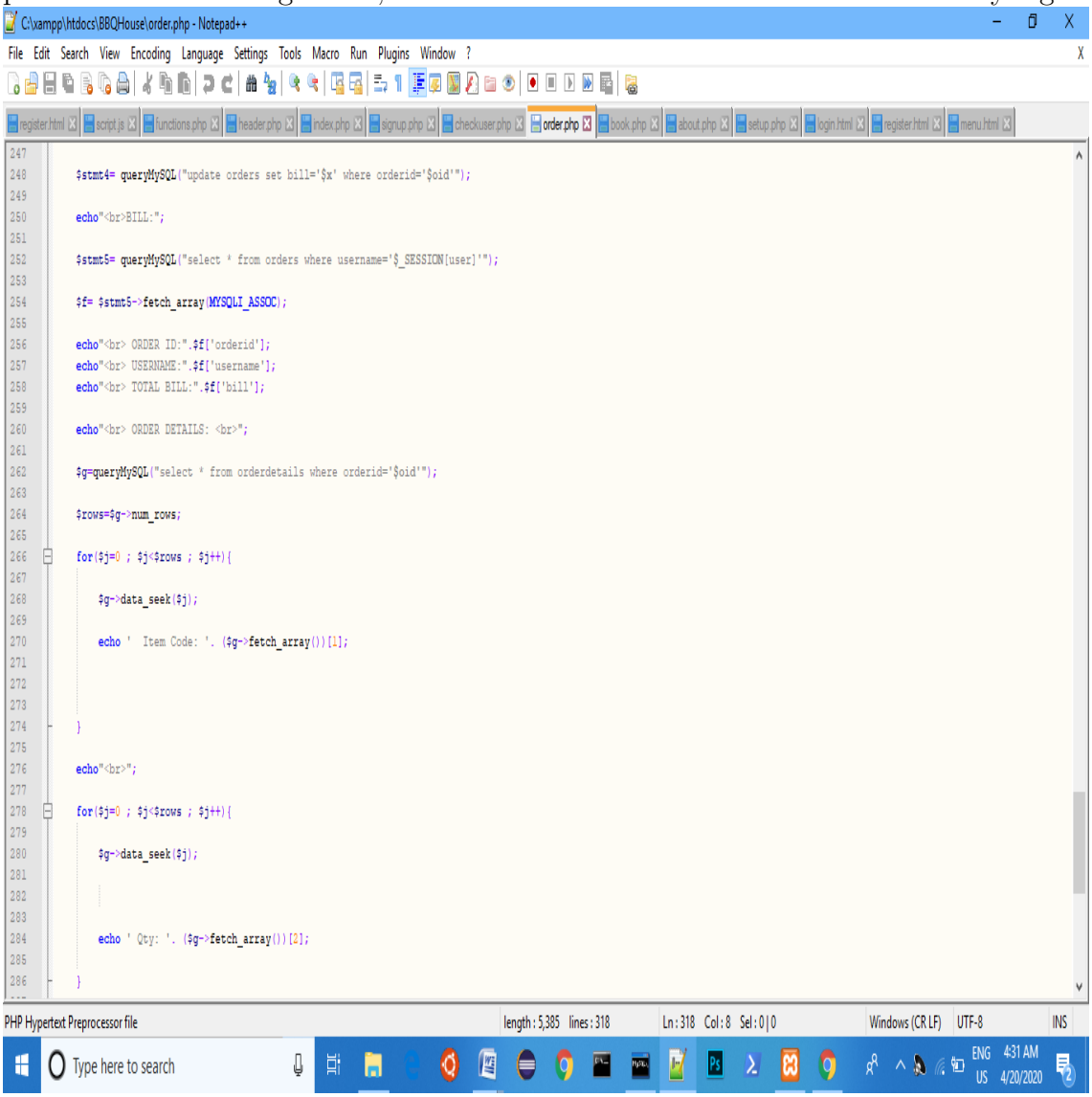

Figure 3: Code snippet

Full source code has been sent separately in a folder.

3.2 Working Screenshots

1. Index page

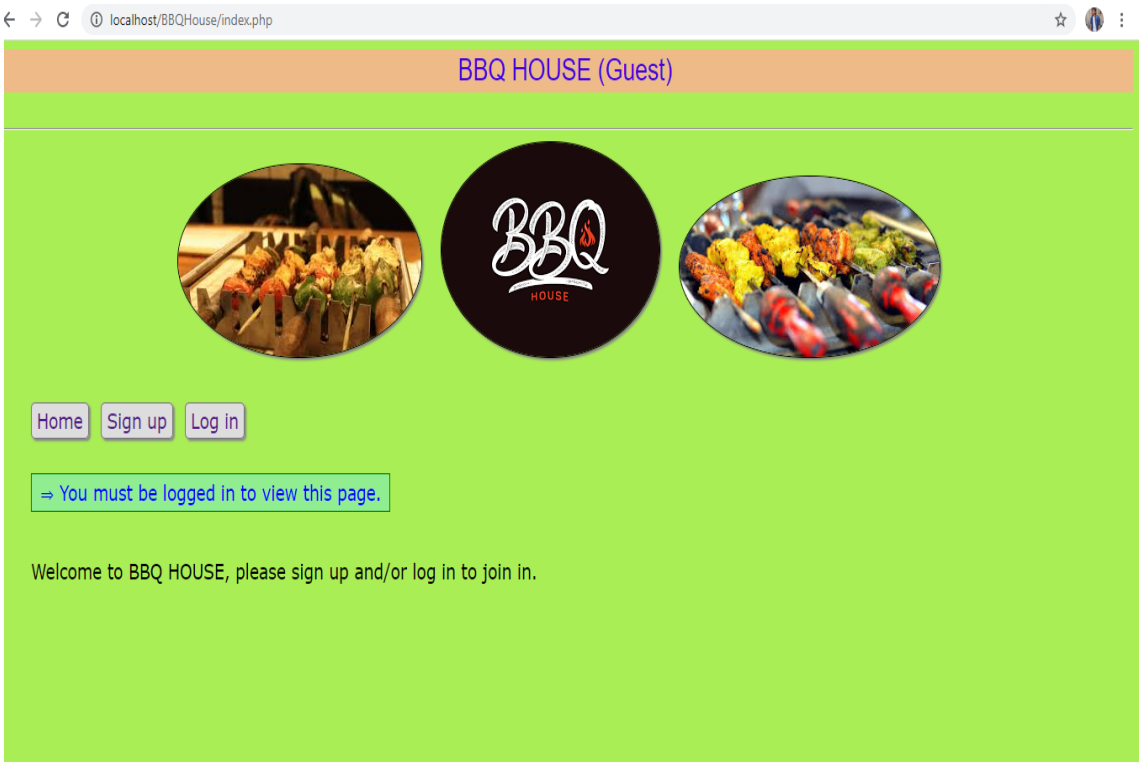

Figure 4: Index page

2. Sign up

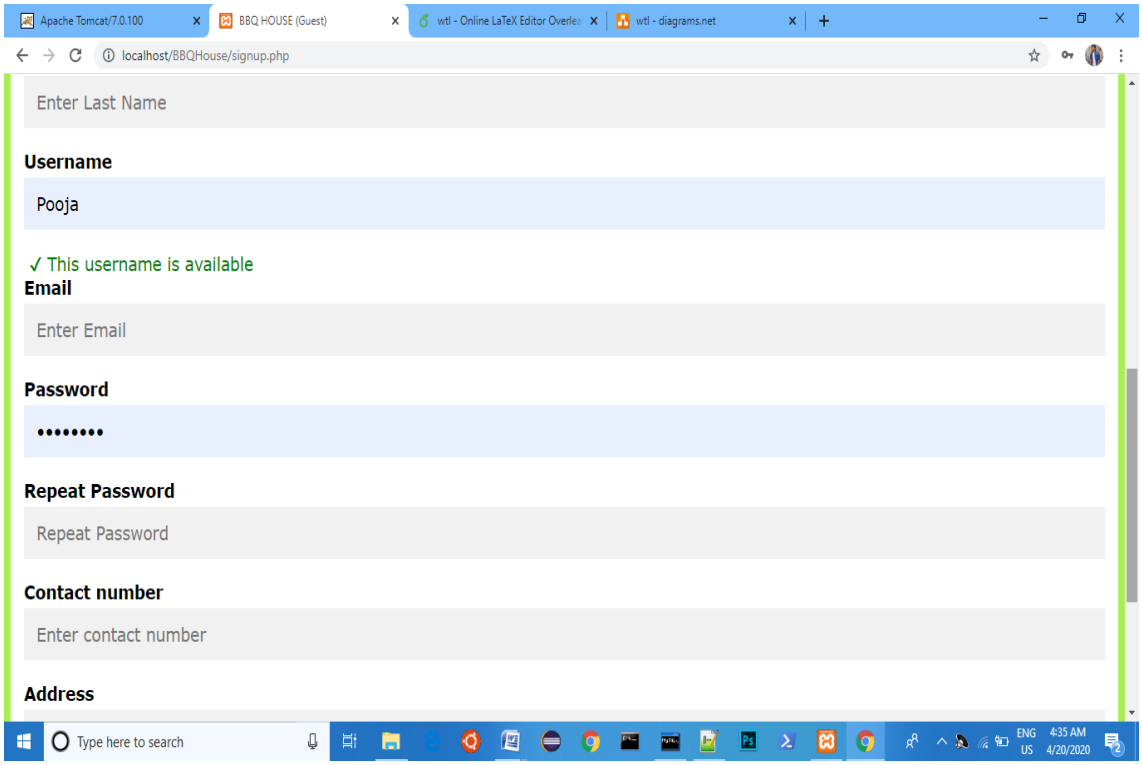

Figure 5: Sign up page

3. Login

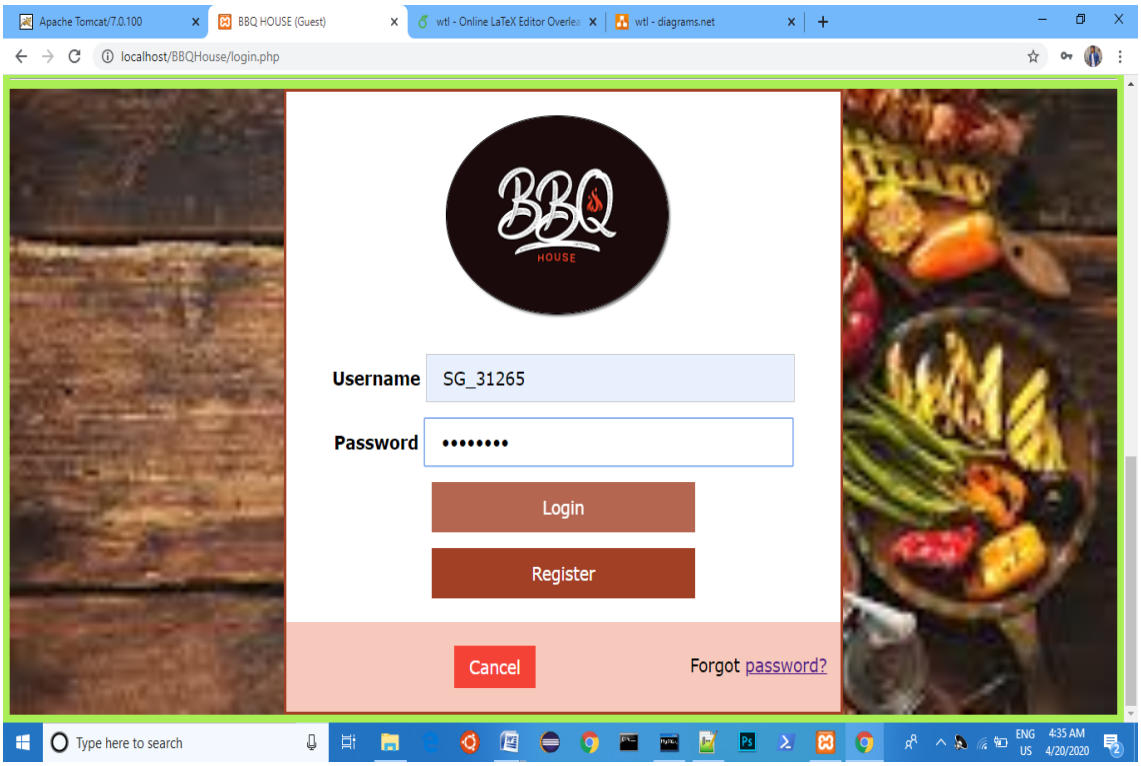

Figure 6: Login page

4. Menu

Figure 7: Menu

5. Order and Bill

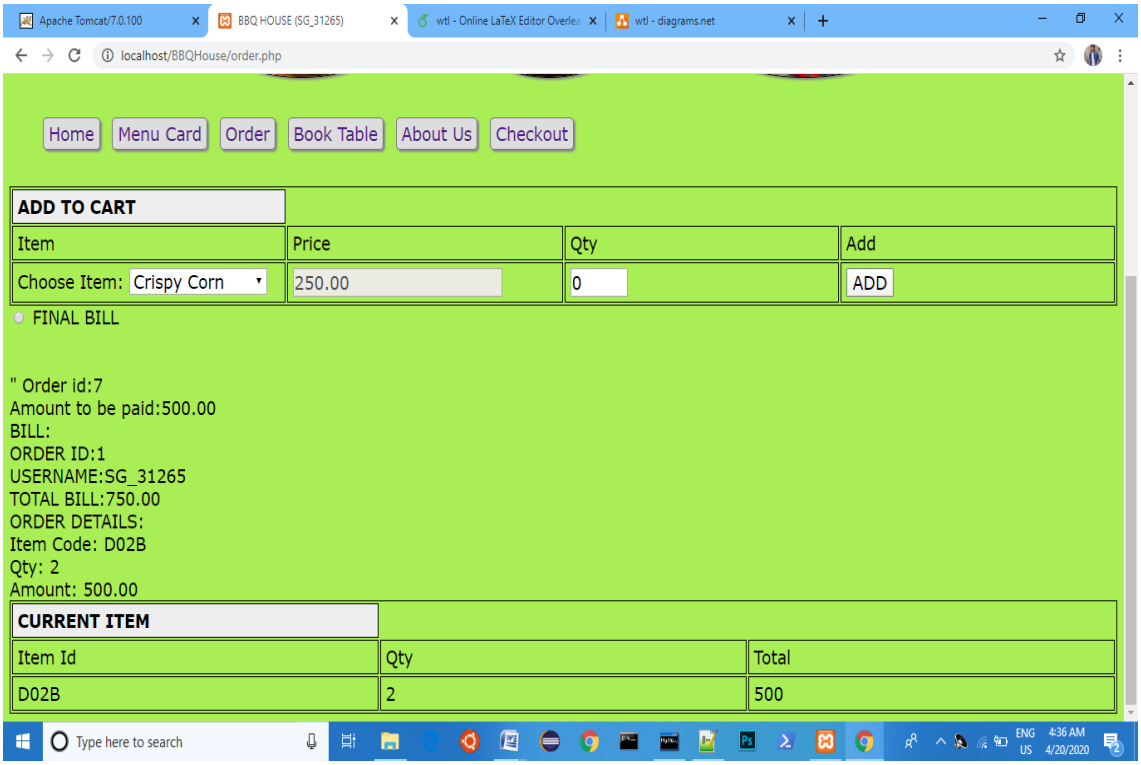

Figure 8: Order and Bill

6. Book Table

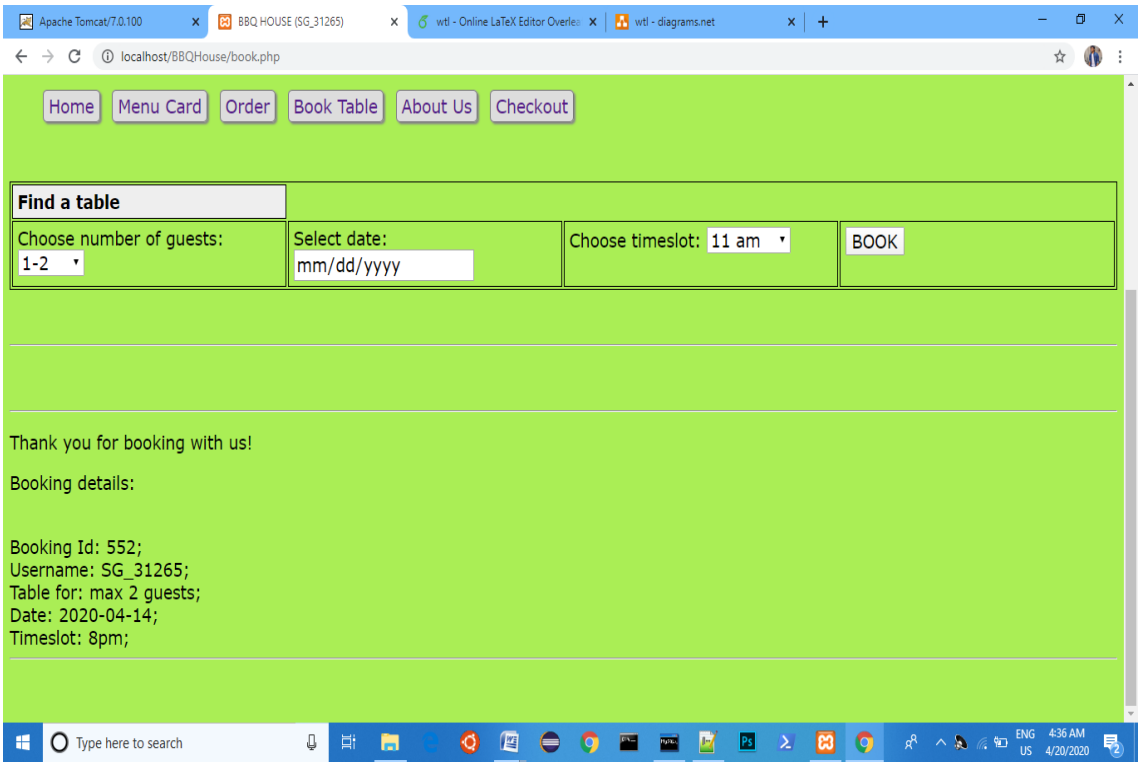

Figure 9: Table Booking

7. About

Figure 10: About

8. Check out

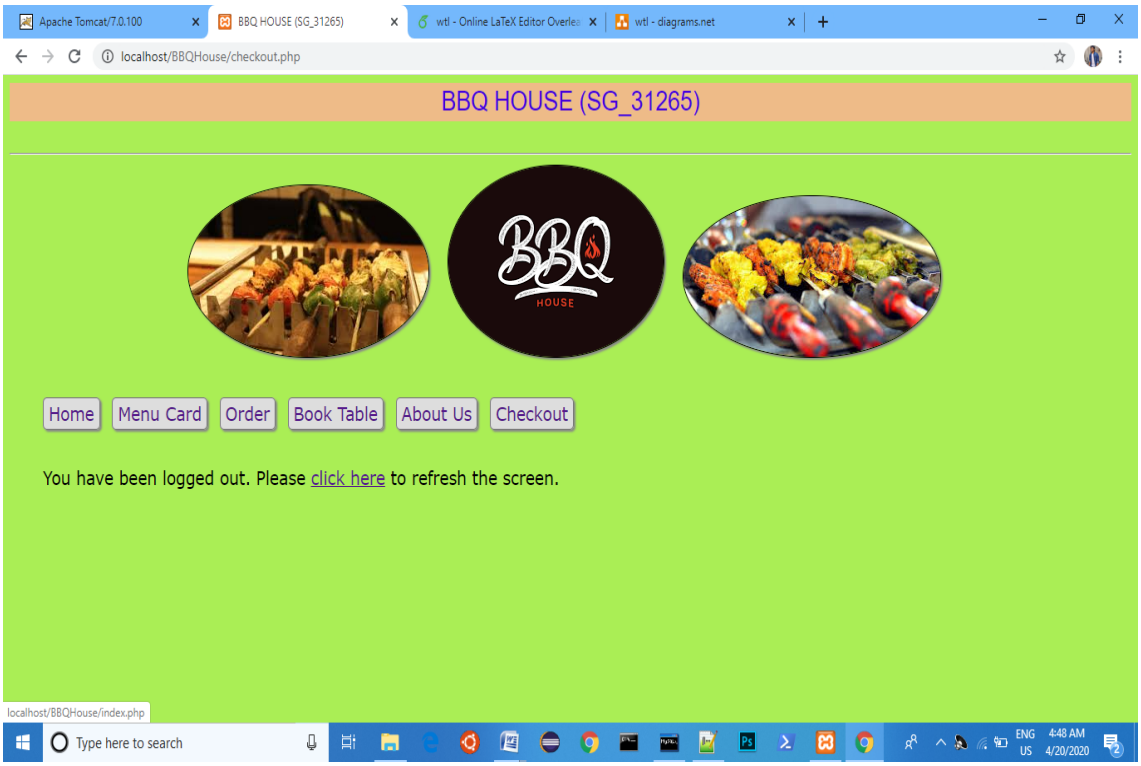

Figure 11: Checkout

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

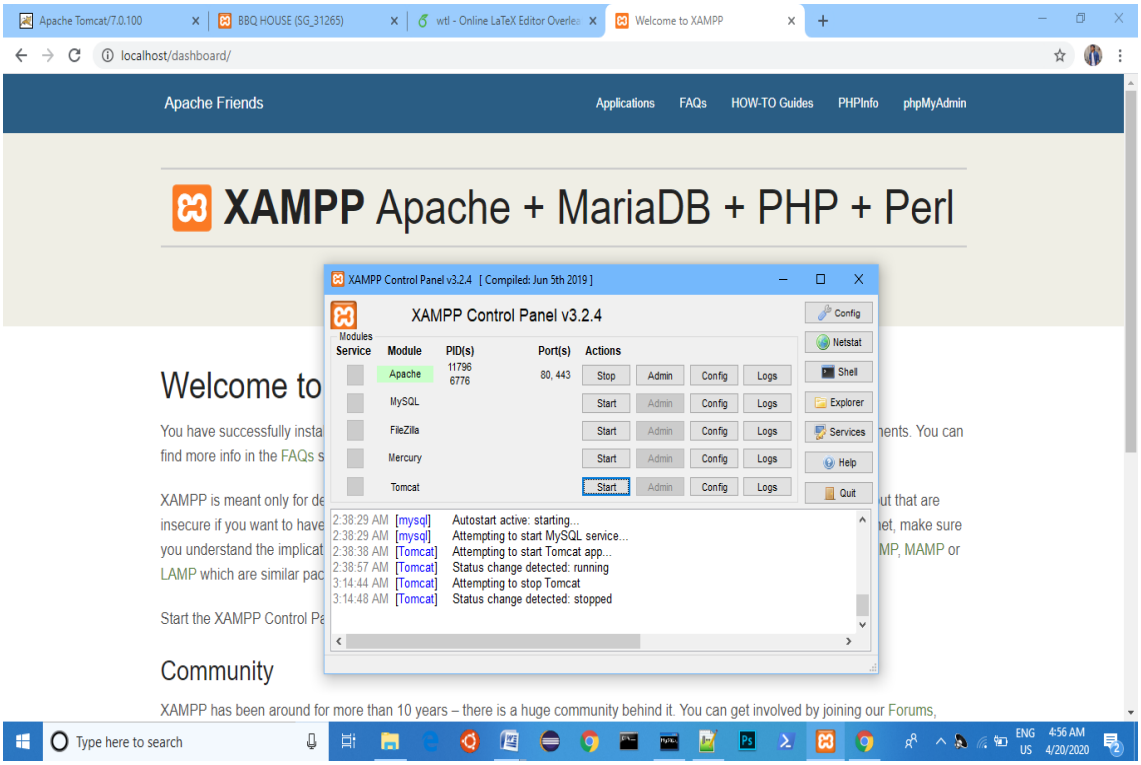

Figure 12: Deployment

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.