

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Belagavi -590 018



An Internship Report

“RESTAURANT MANAGEMENT SYSTEM”

Submitted in the partial fulfillment of the requirements for VIII Semester

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE & ENGINEERING

Submitted by

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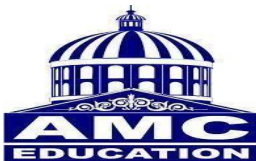
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Internship Carried Out

At

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2019-2020

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CERTIFICATE

This is to certify that the Internship work entitled “**RESTAURANT MANAGEMENT SYSTEM**” is a bonafide work carried out by **SYED ASHFAQ AHMED**, in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year **2019-20**. It is certified that all corrections / suggestions indicated for Internal Assessments have been incorporated in the internship project report deposited in the department library.

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DECLARATION

I, **SYED ASHFAQ AHMED** student of 8th semester B.E at the Department of Computer Science and Engineering, AMCEC, Bengaluru declare that the dissertation work entitled “**RESTAURANT MANAGEMENT SYSTEM**” has been carried out by me and submitted in partial fulfillment of the course requirement for the award of degree in Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belagavi during the year 2019-20.

I also declare that, to the best of my knowledge and belief, the work reported here does not form any part of any other dissertation on the basis of which a degree or award was conferred on earlier occasion on this by any other student.

Place: Bengaluru

SYED ASHFAQ AHMED

ACKNOWLEDGEMENT

First and foremost I would like to thank GOD, the Almighty for being so merciful on me. He guided me in each and every walk of life to do something good and hence this dissertation.

I have a great pleasure in expressing my deep sense of gratitude to founder **Chairman Dr. K. R. Paramahamsa** for having provided me with a great infrastructure and well furnished labs.

I express my sincere thanks and gratitude to our **Principal Dr. A.G. Nataraj** for providing me an opportunity to carry out my dissertation work.

I would like to extend my special thanks to **Prof. Latha C A, HOD, Department of CSE** for her support and encouragement.

I am grateful to my guide **Ms. Vineetha, Asst. Professor, Department of CSE, AMC Engineering College, Bangalore** for his unfailing encouragement and suggestion, given to me in the course of my dissertation work.

I am also grateful to all the staff members of the Department of Computer Science & Engineering for their encouragement and support.

Last but not the least, I wish to thank all my friends and family members for their help and co-operation.

Place: Bengaluru

SYED ASHFAQ AHMED

Date:

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ABSTRACT

Restaurant management system is a web-based restaurant management application with ordering functionality. It connects user and admin in an online community allowing users to browse variety of food available, and book the order. Users can also buy or purchase food online, without having to go to the restaurant.

My project will use MySQL and PHP to back the interface with strong database functionality. This project will target the major web browsers as the initial platform for the Beta version.

The final deliverable will be a functioning web application that can handle all specified use cases. Some of the major use cases include user account registration, login/logout, manage ordering, adding food items and its respective varieties to a restaurant account.

CHAPTER 1

COMPANY PROFILE

1.1 INTRODUCTION

iLaczen came into existence with a positive hope for the greatest results. The company has been formed by a group of professionals having vivid experience and wide exposure in Information Technology. People involved here are young qualified engineers and qualified business graduates from the renowned universities across the globe.

Ilaczen Technologies Llp is a Limited Liability Partnership firm incorporated on 05 January 2018. It is registered at Registrar of Companies, Bangalore. Its total obligation of contribution is Rs. 100,000.

Designated Partners of Ilaczen Technologies Llp are Shrutha Jain Attur and Mohammad Reza Khan.

Ilaczen Technologies Llp's last financial year end date for which Statement of Accounts and Solvency were filed is N/A and as per records from Ministry of Corporate Affairs (MCA), date of last financial year end date for which Annual Return were filed is N/A.

1.2 VISION

From the silicon valley of India, Bengaluru, ILACZEN Technologies is a young, formidable force to reckon and with great trepidation is ably headed by Mr. Mohammed Reza Khan. Grouping of likeminded and highly skilled professionals, who are engineers and the best business graduates from some of the re-known Universities in the world today form the work force at ILACZEN Technologies. True to keeping with the last in gest technologies, we strive to give the best of our services in the long term.

1.3 MISSION

With path breaking innovations at our fingertips, we, at ILACZEN Technologies have geared up to meet the fast paced demands of the IT industry. With the best brains behind our strategic choice in computing and Information Technology Services, software application and maintenance, branding and product based applications, we vouch for the ultimate satisfaction of our esteemed clients up close, only to forge a long term association and commitment.

1.4 VALUES

When professional and functional business inputs are juxtaposed, it obviously provides long lasting strategic business solutions. These give an impetus to the functional knowledge of excellence. Therefore, we at ILACZEN Technologies, have developed a close, workable balance with our reputed clients, thus reposing their trust for desirable and satisfying results.

1.5 Quality policy

In the quest to be world-class, TEQUED LABS pursues continual improvement in the quality of its products, services and performance leading to total customer satisfaction and business growth through dedication, commitment and team work of all employees.

1.6 NUMBER OF PEOPLE WORKING AND ITS TRAINING

The company having more than 50 employees and till now they are provided internships training for more than 800 students. The trained students after their completion of internship period they will be assign to some real world projects and they are informed to complete it within a given time.

CHAPTER 2

ABOUT COMPANY DEPARTMENT

2.1 Department overview

Each department consists different teams working on specific domains. Each team consists of employees who have different roles and responsibilities to handle.

The main departments in ilaczen are:

1. Web development
2. Mobile app development
3. Software development
4. API integration
5. E commerce
6. Digital marketing

Web development

We create dazzling, eye-catching and functional websites that give a new identity to your business. We absorb your requirements and build a trusted, unique designs, eye-catching themes, and visually appealing layouts to boost adoption and satisfaction. Content Management Systems (CMS) to full-fledged e-Commerce Websites with Payment Gateway integration. From logo, brand design, website development & hosting, marketing, we make sure you are attractive to customers as well as investors.

Static website

Website outlining assumes an indispensable part, like that of promotions. Your clients get awed by observing your item and administrations which is shown flawlessly and inventively. If you are on a budget but still want to design a website, then you must opt for the most affordable option of a static website. A static website is the simplest way to showcase your product or business online. We will provide you a website which is visually appealing, professional looking creates a corporate image for your business online. It acts as an online brochure for your idea. We take pride in offering the unique and personalized static website design service with quality and at competitive prices. That is empowered by absolute creativity and skill which help them to elaborate their idea of business among the prospective buyers.

Dyanamic website

Our web services bring ideas and technology together for our customers. We create attractive, powerful e-commerce websites and content-managed websites. Our team of digital analysts and experts design the right plan for everything online. Our consultants deliver custom created e-commerce solutions, content management solutions in coming up with your required websites. Be it a static or dynamic website, we make it look elegant and responsive. This set-up is useful for those that want to

create frequent changes to their websites together with text and image. With dynamic web site style, the contents will be placed on the home page and link menus will be created with links to different pages for all the remainder of knowledge.

Mobile App development

Mobile apps have become a need rather than a luxury we provide iOS, Android and Cross Platform applications supported by a strong cloud based backend infrastructure. We are expertized in the development of mobile apps for B2B and B2C business environment. A lot goes into developing a mobile app than meet our eyes. We have a team that excels at each of these levels to assure that the resulting product is as great as the team that made it. After all, excellence knows no boundaries.

1. Android App Development
2. iOS App Development
3. Cross-Platform App Development

Software development

Our Custom Software Developments include techniques and programs like .NET Programming / Java, application re-engineering, PHP, software re- factoring. Internet/Intranet web design services include services like CRM, Client/Server application development, Web development and Knowledge Management systems. We always ardent to provide best results in software development and turnkey software solution using proven methods that impact the way leveraging the benefits of modern technologies. We work together to create value driven business relationship and by using sophisticated project management techniques and software engineering practices as it gives great success to shared business objectives. Customer satisfaction is our motto and we provide the best solution to our clients.

Api integration

Our API integration services help you integrate data with third party applications. We can also consume data from a wide range of third party sources. We emphasize networking best practices when integrating and implementing original, open-source, and third-party APIs. Our enterprise API solutions interface disparate business systems and processes, add web service functionality to existing applications, and synchronize data across applications.

E commerce

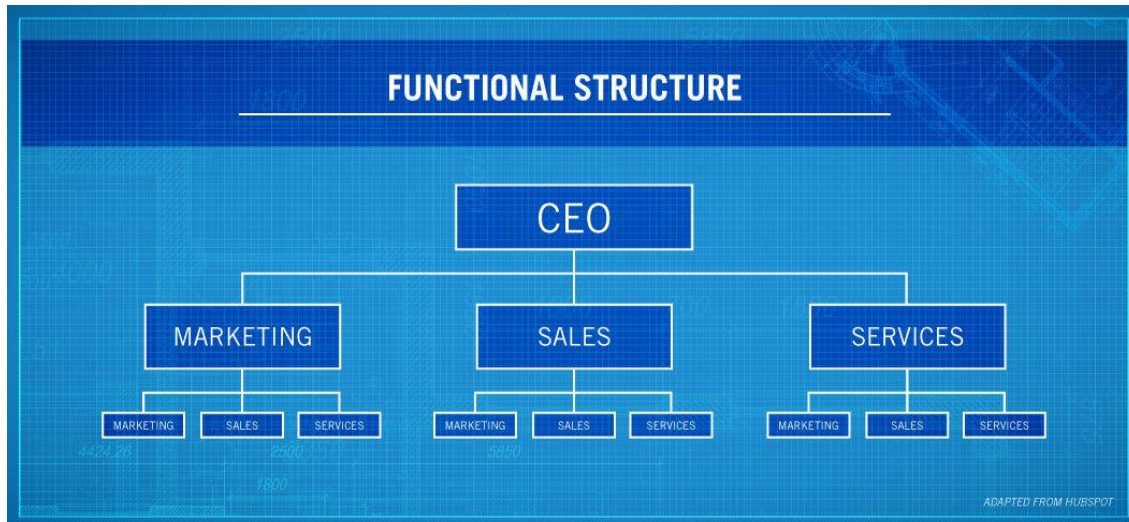
iLaczen's range of eCommerce solutions can help your business become more consumer-centric at every consumer journey. Approach and connect all your ecommerce related query with us. With our high end and cut edge technologies powered platform, leverage your customer's preferences and business potential. We provide personalised one to one connected ecommerce, in-store or omni channel purchase experiences which will lead to gain the loyalty of your best customers.

Digital marketing

iLaczen Technologies Offers all types of Digital Marketing Services in Bengaluru, Brand creation, Email advertising effort, Pay-Per-Click Marketing and other Digital Marketing Services to give your business an edge over your rivals. We have always differentiated ourselves with our holistic approach to digital marketing services, social media marketing execution and our ability to analyze both tangible and intangible digital marketing outcomes. We provide creative Social Media content, planning and

execution. ROI based social media marketing campaigns with though provoked Ad copies to bring down the cost per lead.

2.2 ORGANISATION STRUCTURE



An organizational structure is a system that outlines how certain activities are directed in order to achieve the goals of an organization. These activities can include rules, roles, and responsibilities.

The organizational structure also determines how information flows between levels within the company. For example, in a centralized structure, decisions flow from the top down, while in a decentralized structure, decision-making power is distributed among various levels of the organization.

Having an organizational structure in place allows companies to remain efficient and focused.

CHAPTER 3

TASK PERFORMED

3.1 INTRODUCTION

The project title “Restaurant Management System” deals with different services given to the customers .A restaurant management system is the complete stack of technology, restaurant software and marketing modules that you will need to manage your business. It takes over the operations and marketing of your business. We will be breaking down all the units that comprise a successful restaurant stack and drill down very deep into it to provide you a holistic picture of all that you need. We will first define the various functions such as online orders, table bookings & incoming orders management, reducing the order processing time, Inventory management, marketing campaigns management, customer acquisition

3.2 Motivation

The project titled “Digital Image Processing” is a real world and research based project. This project idea is come to an account after reading some research papers from the different source. More than 25 research papers presented till now related to my project and all are looking to solve the same problem but the platform they chosen are different from one person to the other person.

3.3 Literature Survey

1. Robin Nixon, “Learning PHP, MySQL &JavaScript with jQuery, CSS and HTML5”, 4 edition, O’Reilly Publications, 2015. (ISBN:978-9352130153)
2. Luke Welling, Laura Thomson, “PHP and MySQL Web Development”, 5th Edition, Pearson Education, 2016. (ISBN:978-9332582736)
3. Nicholas C Zakas, “Professional JavaScript for Web Developers”, 3rd Edition, Wrox /Wiley India, 2012. (ISBN:978-8126535088)
4. David Sawyer McFarland, “JavaScript & jQuery: The Missing Manual”, 1st Edition, O’Reilly/Shroff Publishers & Distributors Pvt Ltd, 2014 (ISBN:978- 9351108078)
5. Zak Ruvalcaba Anne Boehm, “Murach's HTML5 and CSS3”, 3rdEdition, Murachs/Shroff Publishers & Distributors Pvt Ltd, 2016. (ISBN:978-9352133246)

3.4 REQUIREMENTS AND SPECIFICATIONS

3.4.1 Hardware requirement

The following are the minimum Hardware Requirements

PROCESSOR : Intel® Core™ i3-7100 CPU

RAM : 4/8 GB

HARD DISK : Minimum of 1GB

DISPLAY : Color Monitor

A standard keyboard and a compatible mouse.

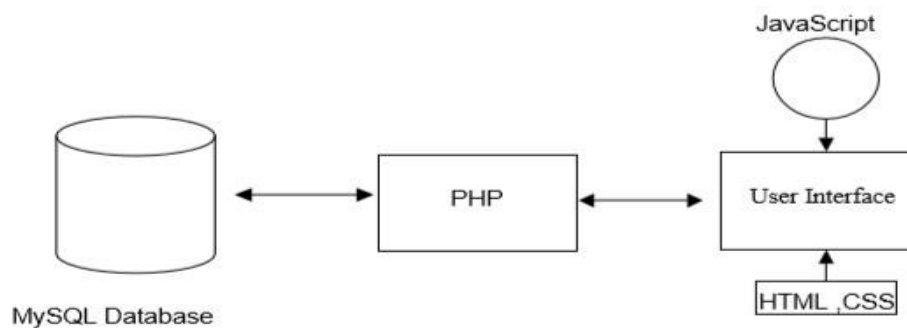
3.4.2 SOFTWARE REQUIREMENTS

OPERATING SYSTEM : Microsoft Windows7(32 bit)

FRONT END : HTML,JAVASCRIPT,CSS,PHP,AJAX

BACK END : XAMPP/WAMP,MYSQL

3.5 System Design



3.6 Implementation

1. HOME PAGE.php

```
<?php
session_start();
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>RestroGrills - The Perfect Food at Your Door!</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0"/>
<!-- <meta http-equiv="refresh" content="1"> -->
<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
<link
href="https://fonts.googleapis.com/css?fam=Pacifico&display=swap"rel="stylesheet">
<link
href="https://fonts.googleapis.com/css?fam=Bre+Ser&display=swap"rel="stylesheet">
<link
href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.css">
<link rel="stylesheet" href="css/style.css">
</head>
<body>
<?php require('chunks/login-modal.php'); ?>
<?php require('chunks/register-modal.php'); ?>
<?php require('chunks/info-modal.php'); ?>
<?php require('chunks/navbar.php'); ?>
<?php require('chunks/banner-slider.php'); ?>
<?php require('chunks/description.php'); ?>
<?php require('chunks/cards.php'); ?>
<?php require('chunks/carousel.php'); ?>
<?php require('chunks/about.php'); ?>
<?php require('chunks/services.php'); ?>
<?php require('chunks/reviews.php'); ?>
<?php require('chunks/footer.php'); ?>
<script
src="https://code.jquery.com/jquery-3.4.1.min.js"
integrity="sha256-CSXorXvZcTkaix6Yvo6HppcZGetbYMGWSFlBw8HfCJo="
crossorigin="anonymous"></script>
```

```

        <!-- Compiled and minified JavaScript -->
        <script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script
>
        <script src="js/loaders.js"></script>
        <script src="js/ajax.js"></script>
</body>
</html>

```

The above code snippet is used to take information of user details such as name ,email id, services requested, time of appointment and date .If the detail format is invalid ,it displays an error message “Something went wrong, Please try again”

ADMIN.php

```

<?php
session_start();
$msg_error="";
If(isset($_SESSION['msg']))
{
    $msg_error=$_SESSION['msg'];
    unset($_SESSION['msg']);
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" href="../css/form-style.css">
<link rel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.css">
<title>Document</title>
</head>
<body>
    <div class="login-page section">
    <div class="center-align">
        <div class="row">
            <div class="col s12">
                <div class="container">
                    <div class="container">
                        <div class="container">
                            <div class="card horizontal hoverable">
                                <div class="card-stacked">
                                    <form class="card-content" action="login-admin.php" method="post">
                                        <h4 class="header">Admin Login</h4>
                                        <?php
                                            if(!empty($msg_error)){
                                                echo '<div class="row error-msg">

```



```

        <div class="col">
            <b>'.$msg_error.'</b>
        </div>
    </div>';
    }
    ?>
<div class="row">
    <div class="input-field col s12">
        <span for="email"><b>Password</b></span>
        <input id="password" name="password"
type="password" class="validate">
    </div>
</div>
<div class="row">
    <div class="col s12">
        <button type="submit" class="waves-effect waves-light btn"><b>Log
</div>

</div>
<div class="row">
    <div class="col s12">
        <button type="submit" class="waves-effect waves-light btn"><b>Log
        <b>
    </div>
</div>
</form>
</div>
</div>
</div>

<script src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.js"></script>
</body>
</html>

```

The above code snippet is used to update admin profile ,admin has option to update their name, contact number and password .After entering details automatically database gets updated ,on entering invalid format displays an error message

3.7 SOFTWARE TESTING

As name indicate test nothing but check something. Here software testing nothing but checking the errors, failure and faults. Here fault is a condition which may cause a software to fail. And the error is something which gives the difference between actual and expected results. Failure is a nothing but a component of the system may not work according to its functional specification. Software testing will be done by creating or writing test cases. Here test cases consist following things expected output, actual output and remarks.

There are some well-known testing methods which are given below

1. Validation
2. Unit
3. Integration
4. GUI
5. Browser Compatibility
6. Performance
7. Regression
8. Block Box
9. White Box

1. Validation Testing

Validation testing as name indicates it is used to validate the system. The users should be able to select the food products that he/she wishes to order .

2. Unit Testing

Unit testing is used to verify the small piece of code or small part of the program. Here the programmer will writes a small piece of code and check for his functionality. If it is working properly then there will be no issues, if it not working or not giving expected output then unit test fails and then code will corrected and again it will check for the same this process will be repeated until programmer get proper outputs. The advantage of this testing is errors can be find and fixed very easily because it becomes easy for the programmer to find the errors in small piece of code as compared to large programs and hence this will increase the robustness of the system.

3. Integration Testing

As the name indicates that integration means combining so here integration testing is nothing but combining all the modules or components to check whether they are working fine when they are combined together. The unit tested modules or components will be integrated together and then check for their functionalities. In this project we have done the integration testing by creating

three components separately and at the end of development these three components put it together and they are working properly and giving the expected results.

4. Graphical User Interface(GUI)Testing

Graphical User Interface testing is used to check the front end design of the project by looking at all the java elements used in the page and styles used in the page. Here tester will checks whether the all the elements aligned properly or not and checks the size, styles, fonts and so on is designed as per the user needs or not. GUI design is very important because user always attract towards good and stylish designs because no body likes when you design a large buttons unnecessary at the need of small buttons.

5. Browser Compatibility Testing

This testing is used to check whether the project is running in all the browsers or not. The advantage of this testing is tester will easily come to know that which browser is good for proper working of the project and he can make it default browser to run the project all the time. And tester also come to know that whether the styles used in the project is supported by the browser or not.

6. Performance Testing

This testing is used to check whether the application is performing as per the requirements or not and to check whether it taking more timing to load the pages and the speed of the computations and results will be tested. For doing this test some automated tools will be used.

7. Regression Testing

This testing will be applied on the whole application and checks is there any functionality is missed out or not and also checks about is there any modification is required for the application as per any new requirements or demand from the clients will be done here.

CHAPTER4

CONCLUSION AND FUTURE SCOPE

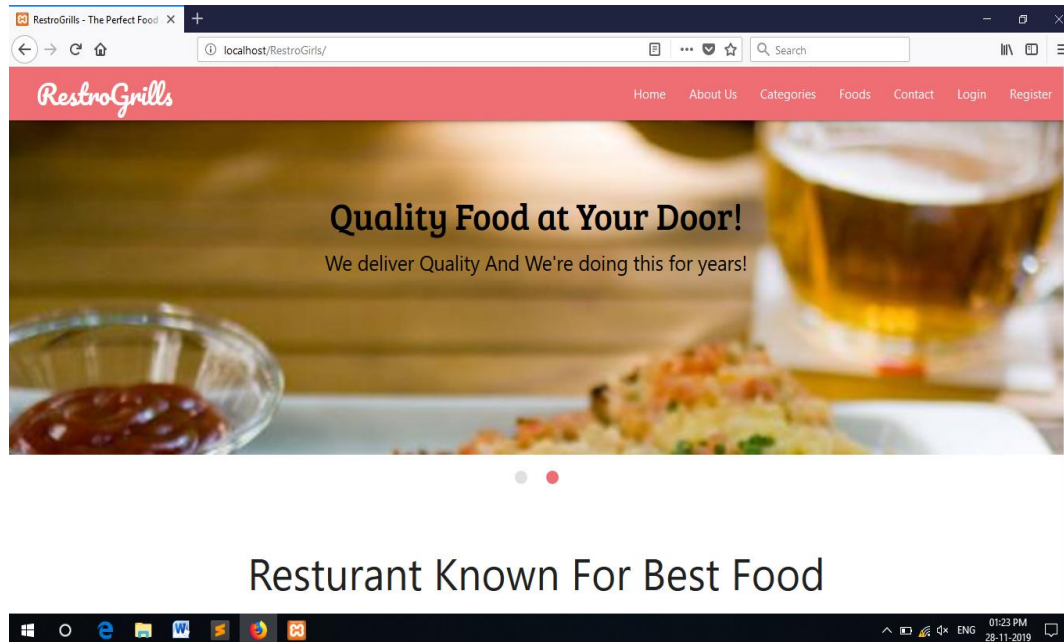
The project entitled “Restaurant Management System” was completed successfully. The software with an easy to use interface has been designed to allow orders booking , database access.

- It can be used by a wide variety of customers for the process of maintaining the details
- The results have been potentially generalizable.
- This will help to save yourtime.

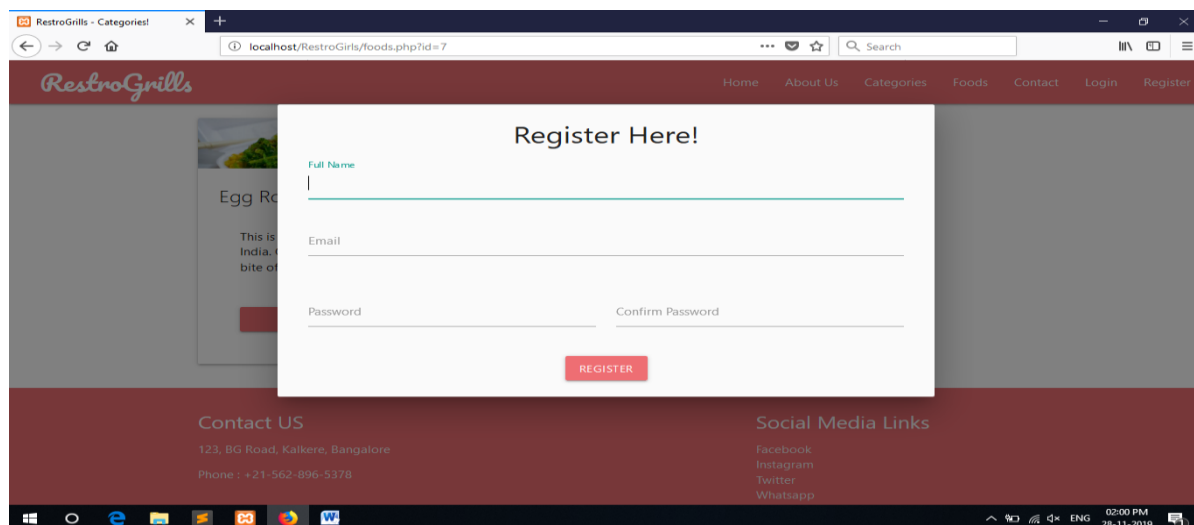
The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for making orders and maintaining database about the services and overall database of the restaurant .This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html and management of database using mysql. The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project. There is a scope for further development in our project to a great extent. A number of features can be added to this system in future. System may keep track of history of orders of each customer and provide suggestions based on their history. These features could have implemented unless the time did not limited us.

SNAPSHOTS

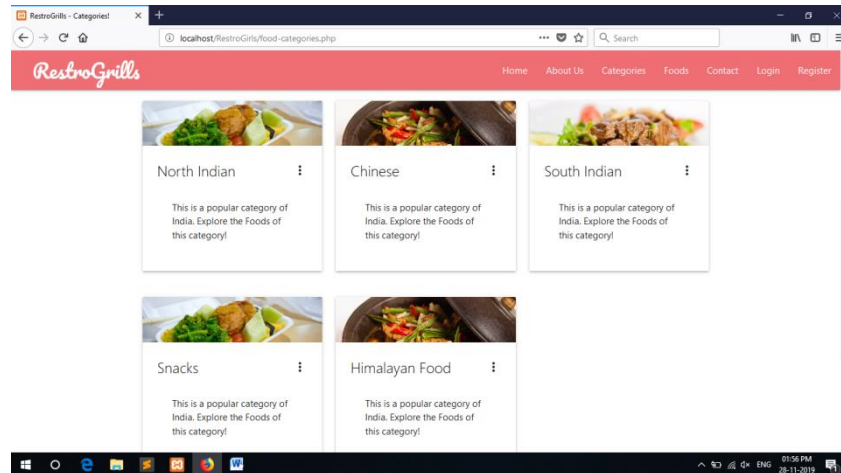
HOME PAGE



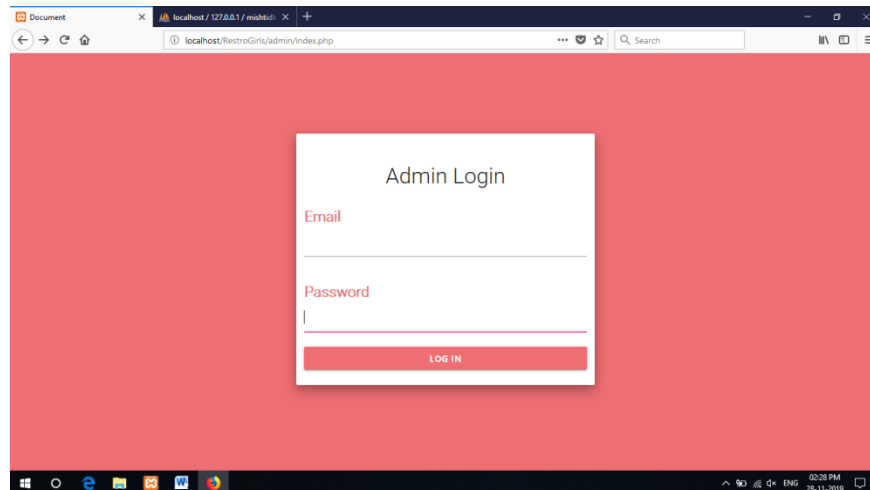
REGISTRATION MODULE



ABOUT US PAGE



ADMIN PAGE



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2. Luke Welling, Laura Thomson, "PHP and MySQL Web Development", 5th Edition, Pearson Education, 2016. (ISBN:978-9332582736)
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/Wiley India, 2012. (ISBN:978-8126535088)
4. David Sawyer McFarland, "JavaScript & jQuery: The Missing Manual", 1st Edition, O'Reilly/Shroff Publishers & Distributors Pvt Ltd, 2014 (ISBN:978-9351108078)
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7. Principal, Kalsekar College of Commerce and Management & Registered Ph.D. Guide, University of Mumbai, India 2. Self-Employment through Beauty Parlor Business: Vindication from Women Entrepreneurs of Agartala Rajat Deb & Jhuma Dey Tripura Central University, Tripura, India (Received: 02/12/2015; Accepted: 26/04/2016)
8. To Study the Perception of Women as Customers towards Beauty Service in Western Mumbai Savla Swati Jayesh and Manjrekar Pradip Department of Management, Sunrise University, Alwar (Raj.) India. Faculty of Business Management, Padmashree Dr D Y Patil University, Navi Mumbai, India

