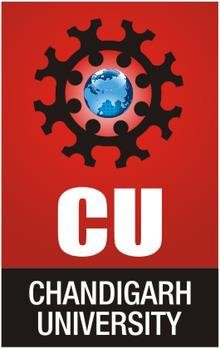
**FINAL PROJECT REPORT** ON

# “RESTERAUNT WEBSITE”

Submitted in fulfillment of the requirements for the award of course of

**WEB DEVELOPMENT AND DATA BASE MANAGEMENT SYSTEM** **IN COMPUTER SCIENCE & ENGINEERING**



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# Table of Contents

**Topic**

Certificate 3

Students ’s Declaration

Acknowledgement

List of Figures

Definitions, Acronyms and Abbreviations

Abstract

## CHAPTER 1 INTRODUCTION

CHAPTER 2 **ARCHTICETURE DIAGRAM**

**CHAPTER 3**  **SPECIFICATIONS**

CHAPTER 4 **DATABASE DESIGN**

CHAPTER 5 SOFTWARES USED

## CHAPTER 6 RESULTS AND SNAPSHOTS

**6.1** Result

**6.2** Snapshot

7.CHAPTER 7 CONCLUSION AND FUTURE SCOPE

**7.1** Future Scope

**7.2** Conclusion

**REFERENCES**

## CERTIFICATE

This is to certify that the work embodied in this Project Report entitled **“**RESTRAUNT WEBSITE” being submitted by “20BCS3372, 20BCS3372, 20BCS3400, 20BCS3401” Summer Training for partial fulfillment of the requirement for the degree of **“ Bachelor of Engineering in** **Computer Science & Engineering** **”discipline in “Chandigarh University”** during the training session JUNE-JULY 2021 is a record of bona fide piece of work, carried out by student under my supervision and guidance in the **“ Department of Computer Science & Engineering ”, Chandigarh University.**

**DECLARATION**

We, student of Bachelor of Engineering in Computer Science & Engineering Summer Training, session: JUNE-JULY 2021, Chandigarh University, hereby declare that the work presented in this Project Report entitled “RESTRAUNT WEBSITE” is the outcome of our own work, is bona fide and correct to the best of our knowledge and this work has been carried out taking care of Engineering Ethics. The work presented does not infringe any patent work and has not been submitted to any other university or anywhere else for the award of any degree or any professional diploma.

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## ACKNOWLEDGEMENT

We would like to express our deep and sincere gratitude to our Project In charge **ER PALVI SHARMA & ER VANSHITA BHARDWAJ** for giving us the opportunity to do the project and providing valuable guidance throughout this training. Their dynamism, vision and exquisite efforts have deeply inspired us. They taught us the methodology to carry out the research and to present the research work as clearly as possible. It was a great privilege for us to study and work under their guidance.

We owe the completion of our project to our project Mentor for her continuous support and guidance.

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| S NO. | FIGURE NAME | PAGE NO. |
| 1. | USE CASE DIAGRAM | 14-15 |
| 2. | SEQUENCE DIAGRAM | 16-17 |
| 3. | ENTITY RELATIONSHIP DIAGRAM | 21-22 |
| 4. | DFD | 24 |
| 6. | ZERO,ONE LEVEL DFD | 25 |

## DEFINITIONS, ACRONYMS AND ABBREVIATIONS

* **DFD( DATA FLOW DIAGRAM**)-A data-flow diagram is a way of representing a flow of a data of a process or a system. The DFD also provides information about the outputs and inputs of each entity and the process itself. A data-flow diagram has no control flow, there are no decision rules and no loops.

* **ER DIAGRAM (ENTITY RELATIONSHIP DIAGRAM)-**An entity–relationship model describes interrelated things of interest in a specific domain of knowledge. A basic ER model is composed of entity types and specifies relationships that can exist between entities.

* **UML DIAGRAM(UNIFIED MODELLING LANGUAGE)-**A UML diagram is a diagram based on the UML(Unified Modeling Language) with the purpose of visually representing a system along with its main actors, roles, actions, artifacts or classes, in order to better understand, alter, maintain, or document information about the system**.**

## ABSTRACT

We have designed a website of Connie’s restaurant . Our website will show Menu , customers will be able to book a table , they would be able to contact us for any point of time for home delivery, also one can see our top recipies that are mostly ordered in our restaurant .We have made some pages like Home page , About Us page , FAQ, Terms Of Use, Privacy Policy page . Customers can also see the menu of the restaurant like breakfast , lunch , snacks , dinner and beverages too . If a person wants to book a table in our restaurant then he can do it by using our website . Customers can also see the special recipies made by our chefs .

**1. INTRODUCTION**

Restaurant is a kind of business that serves people all over world with ready made food. Currently this industry is going on with lot of flare. People feel more comfortable with lot of variations in the selection and consumption of their food in their busy life.

One can see lot more restaurant in the world. Even in Denmark one can see thousands of restaurants with dishes from all over the world like from India, Pakistan, Mexican, etc fulfilling the needs of people with nourishments and enjoyments.

Let’s concentrate on booking area in a restaurant. In traditional booking system, a customer has to make a phone call in order to get his meal reserved. If luckily the phone gets connected, then the customer does some formal conversation like hello, hi, etc. Than he demands for today’s menu and do some discussion over menu items then he orders and he has to give some of this identification specifications. This process takes 5-8 minutes to complete. On the receiver side there is hardly one phone line and one operator. So he can cover around 15-20 orders maximum in an hour.

For each booking he has to register manually on paper and puts the order in a queue with specific priority according to time and quantity, and than a cook is assigned for the specific order to complete it.

There are lots of areas to be solved for current restaurants using modern IT World. Many areas come like human resource management, accounts management, etc. But our problem lies within domain of end customer and restaurant “Meal Reservation”.

* 1. Problem Analysis

As discussed earlier our main problem area focuses on the “MEAL reservation/booking system”, there are lot of problems in that area which are associated with both the customer and the restaurant staff.

We would like to analyze some of the problems here:

1. Initial problem is that the customer has to get connected over the phone, it would be harder if the restaurant is very popular and busy.
2. As customer won’t have the menu list with him, it would be harder for him to remember the entire list (with price as well...!) and come to a decision, i.e. customer is provided with less time to make decision.
3. The chances of committing mistakes at the restaurant side in providing a menu list for a specific time would be more.
4. There might be some communication problems or sometimes language might be a barrier.
5. As entire booking has to be done manually at the restaurant end, the chances of occurrence of mistakes is high as well.
6. Most of restaurants have single phone line and a single operator to handle incoming calls, so they can accept limited orders.
7. If the restaurant is of busy type, than the operator is left with no time to decide over the priority of the order fulfillment.
8. Even assigning orders (or some menu from the order) to a specific cook can be cumbersome if it is done parallel with the bookings of the order.
9. All the calls will not by intended for booking, as some calls might be for canceling the order or to fetch the status as well, this eats up the productive time at the restaurant side.

Still there might be many other problems associated with the traditional system of booking through telephone. So what should be the solution for these problems..?

Solutions for the Problems (How to solve this!!!!)

The solution for the above problems, so far we have thought, is client-server system that listen the requests online. We have the intensions to make the system that takes the customer reservations through the browser.

But how to make it..?

**From Management’s Perspective**

Wrong userID/Password

**Edit**

Order Items Status

**Check** Designation

Management

Side

**If Cook**

LOGIN

**Administrator**

**If Administrator**

Reassigning

Cook

Block (if any)/ Edit

any customer’s order

**Edit** Menu items, price, etc.

**Edit**

Order Status

At Management side, initially the staff member has to login, and according to his designation the privileges are set. If the staff member is a cook, then he is allowed to edit only the order items status, indicating which menu items he has prepared.

If suppose the member is an administrator then, he is allowed to reassign the cook according to his priority, he can edit the menu information such as its price, items available currently, etc. He can also change the status of the order (in some special cases), and can also block (if any customer exists)/Edit any customer’s order according to his priority.

**­­­­­­­­­­­**

**CHAPTER – 2**

## ARCHITECTURE DIAGRAM

### 2.1 Use Case Diagram

A **use case diagram** at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. A use case diagram can identify the different types of users of a system and the different use cases and will often be accompanied by other types of diagrams as well. The use cases are represented by either circles or ellipses.

**Actor** An Actor models a type of role played by an entity that interacts with the subject (e.g., by exchanging signals and data), but which is external to the subject (i.e., in the sense that an instance of an actor is not a part of the instance of its corresponding subject). Actors may represent roles played by human users, external hardware, or other subjects. Note that an actor does not necessarily represent a specific physical entity but merely a particular facet (i.e., "role") of some entity that is relevant to the specification of its associated use cases. Thus, a single physical instance may play the role of several different actors and, conversely, a given actor may be played by multiple different instances.

**Association** An association specifies a semantic relationship that can occur

between typed instances. It has at least two ends represented by properties, each of which is connected to the type of the end. More than one end of the association may have the same type.

**System** If a subject (or system boundary) is displayed, the use case ellipse is visually located inside the system boundary rectangle. Note that this does not necessarily mean that the subject classifier owns the contained use cases, but merely that the use case applies to that classified.

### 2.2 Sequence Diagram-

The Sequence Diagram models the collaboration of objects based on a time sequence. It shows how the objects interact with others in a particular scenario of a use case. With the advanced visual modeling capability, you can create complex sequence diagram in few clicks. Besides, Visual Paradigm can generate sequence diagram from the flow of events which you have defined in the use case description.

## Actor

An Actor models a type of role played by an entity that interacts with the subject (e.g., by exchanging signals and data), but which is external to the subject (i.e., in the sense that an instance of an actor is not a part of the instance of its corresponding subject). Actors may represent roles played by human users, external hardware, or other subjects. Note that an actor does not necessarily represent a specific physical entity but merely a particular facet (i.e., "role") of some entity that is relevant to the specification of its associated use cases. Thus, a single physical instance may play the role of several different actors and, conversely, a given actor may be played by multiple different instances. Since an actor is external to the subject, it is typically defined in the same classifier or package that incorporates the subject classifier

## Call Message

A message defines a particular communication between Lifelines of an Interaction.

Call message is a kind of message that represents an invocation of operation of target lifeline

### Sequence Diagram-

CHAPTER 3:-

SPECIFICATION OF OUR WEBSITE:-

***1.***Allowing customer to place a reservation for table .

2.Allowing customers to view the menu and place order.

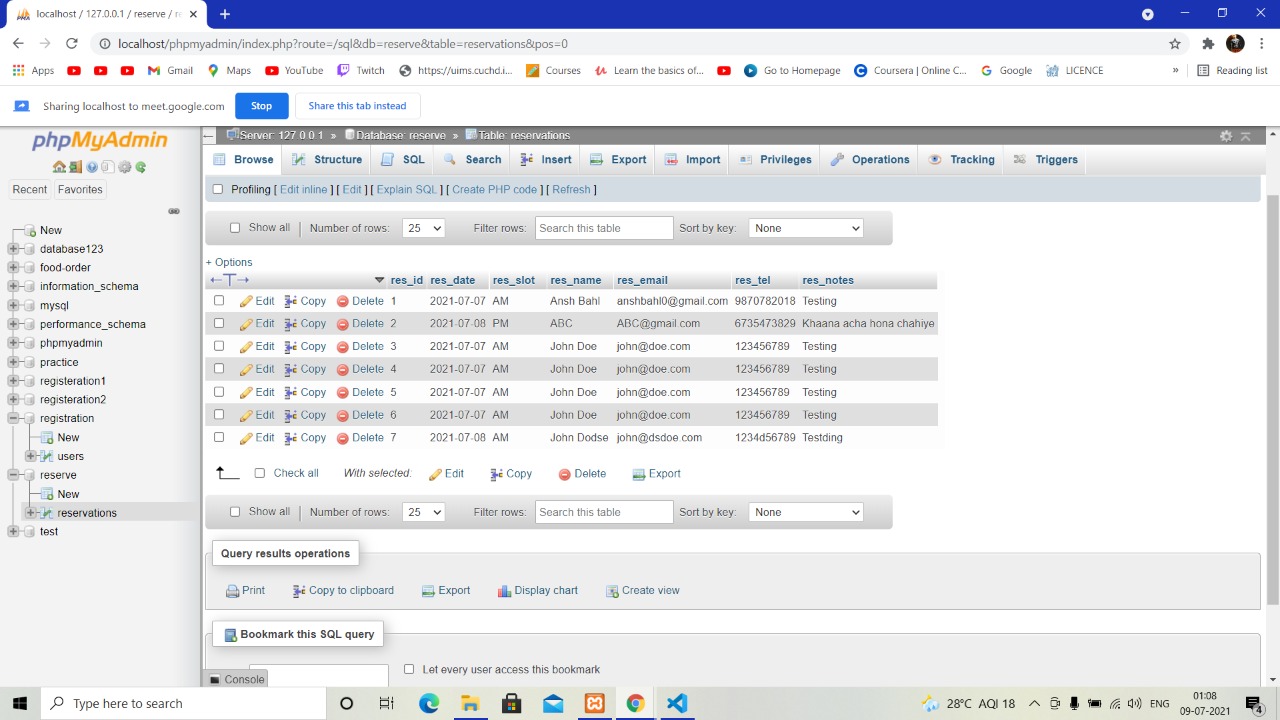
3.Allowing customers to see special dishes made by our Chefs.

**CHAPTER 4**

SYSTEM DESIGNING

Database Design :-

:



## 

**CHAPTER 5**

**Software Used :**

### HTML

HTML stands for Hyper Text Markup Language**.** Itis the standard markup language for creating Web pages**.** It describes the structure of a Web page**.**It consists of a series of elements.HTML elements tell the browser how to display the content**.**HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

**Hypertext Markup Language** (**HTML**) is the standard [markup language](https://en.wikipedia.org/wiki/Markup_language) for documents designed to be displayed in a [web browser.](https://en.wikipedia.org/wiki/Web_browser) It can be assisted by technologies such as [Cascading Style Sheets](https://en.wikipedia.org/wiki/Cascading_Style_Sheets) (CSS) and [scripting languages](https://en.wikipedia.org/wiki/Scripting_language) such as [JavaScript.](https://en.wikipedia.org/wiki/JavaScript)

### CSS

CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on screen, paper, or in other media. CSS saves a lot of work. It can control the layout of multiple web pages all at once. External stylesheets are stored in CSS files

### JAVASCRIPT

**JavaScript** often abbreviated as **JS**, is a [programming language](https://en.wikipedia.org/wiki/Programming_language) that conforms to the [ECMAScript](https://en.wikipedia.org/wiki/ECMAScript) specification.[[7]](https://en.wikipedia.org/wiki/JavaScript" \l "cite_note-tc39-7)JavaScript is [high-level,](https://en.wikipedia.org/wiki/High-level_programming_language) often [just-in-time compiled,](https://en.wikipedia.org/wiki/Just-in-time_compilation) and [multiparadigm.](https://en.wikipedia.org/wiki/Programming_paradigm) It has [curly-bracket syntax,](https://en.wikipedia.org/wiki/List_of_programming_languages_by_type" \l "Curly-bracket_languages) [dynamic typing,](https://en.wikipedia.org/wiki/Dynamic_typing) [prototype-based](https://en.wikipedia.org/wiki/Prototype-based_programming) [object-orientation,](https://en.wikipedia.org/wiki/Object-oriented_programming) and [first-class functions.](https://en.wikipedia.org/wiki/First-class_function)

Alongside [HTML](https://en.wikipedia.org/wiki/HTML) and [CSS,](https://en.wikipedia.org/wiki/CSS) JavaScript is one of the core technologies of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web)[.](https://en.wikipedia.org/wiki/JavaScript" \l "cite_note-8)[[8]](https://en.wikipedia.org/wiki/JavaScript" \l "cite_note-8)JavaScript enables interactive [web pages](https://en.wikipedia.org/wiki/Web_page) and is an essential part of [web applications.](https://en.wikipedia.org/wiki/Web_application)

The vast majority of [websites](https://en.wikipedia.org/wiki/Website) use it for [client-side](https://en.wikipedia.org/wiki/Client-side) page behavior,[[9]](https://en.wikipedia.org/wiki/JavaScript" \l "cite_note-deployedstats-9)and all major [web browsers](https://en.wikipedia.org/wiki/Web_browser) have a dedicated [JavaScript engine](https://en.wikipedia.org/wiki/JavaScript_engine) to execute it.

### PHP

**PHP** is a [general-purpose](https://en.wikipedia.org/wiki/General-purpose_programming_language) [scripting language](https://en.wikipedia.org/wiki/Scripting_language) that is especially suited to [web development.](https://en.wikipedia.org/wiki/Web_development) It was originally created by Danish-Canadian [programmer](https://en.wikipedia.org/wiki/Programmer) [Rasmus Lerdorf](https://en.wikipedia.org/wiki/Rasmus_Lerdorf) in 1994; the PHP [reference implementation](https://en.wikipedia.org/wiki/Reference_implementation) is now produced by The PHP Group. PHP originally stood for *Personal Home Page*[,](https://en.wikipedia.org/wiki/PHP" \l "cite_note-History_of_PHP-7)[[7]](https://en.wikipedia.org/wiki/PHP" \l "cite_note-History_of_PHP-7)but it now stands for the [recursive initialism](https://en.wikipedia.org/wiki/Recursive_initialism) *PHP: Hypertext Preprocessor*.

### MY SQL

SQL is a standard language for accessing and manipulating databases. SQL stands for Structured Query Language. SQL lets you access and manipulate databases. SQL became a standard of the

American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987

SQL can execute queries against a database, retrieve data, insert records in a database, update records ,delete records, create new databases, create new tables in a database, create stored procedures in a database, create views in a database, set permissions on tables, procedures, and views

**Hardware:**

* Processor (CPU) with 2 gigahertz (GHz) frequency or above
* A minimum of 2 GB of RAM
* Monitor Resolution 1024 X 768 or higher
* A minimum of 20 GB of available space on the hard disk .Internet Connection Broadband (high-speed) Internet connection with a speed of 4 Mbps.
* Keyboard and a Microsoft Mouse or some other compatible pointing device.

#### CHAPTER 6 RESULTS AND SNAPSHOTS

##### 6.1 Result

Therefore, after implementing all the mentioned libraries as well as software tools, we finally full-fledge website where users can make an account, log in as and also post there own car whenever they want

**Chapter 7**

#### CONCLUSION AND FUTURE SCOPE

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding has also been adopted. The objective of the software planning is to provide a framework with a limited project completion time frame at the beginning of the project and should be updated on a regular basis.

### POSSIBLE FUTURE WORK

* We can give more advance software for online restaurant systems and add more facilities.
* We can add printer in the future.
* Integrate multiple load balancers to distribute the load of system.
* Create a backup mechanism for backing up data and informations.
* We will host the platform on online servers,to make it accessible worldwide.
* A variety of innovative products and services are being offered spoiling customers for choice. Online restaurant system is no more a privilege enjoyed by your friends and family.
* There is enough scope for online businesses in the future if they understand the Indian shoppers psyche and cater to their needs.