

MyMeal.com(Food Delivery Website)

Project report submitted in fulfillment of the requirement for the degree of
Bachelor of Technology

In

Computer Science and Engineering/Information Technology

Submitted by-

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Supervised By

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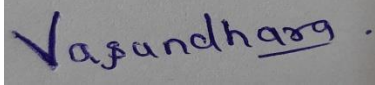
**Department of Computer Science & Engineering and Information
Technology**

Jaypee University of Information Technology, Solan-173234, (H.P)

CERTIFICATE

This is to confirm that the work is reportable within B.Tech titled "MyMeal.com(Food Delivery Website)", submitted by Vasundhara Tripathi [171355] at the Jaypee University of Information Technology, Waknaghat, be
A legal record of her actual work distributed for the major project for even semester i.e. from January 2021 until May 2021.

This work has not been submitted elsewhere for degree or certificate.



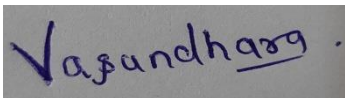
Vasundhara Tripathi (171355)



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Vasundhara Tripathi (171355)



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LIST OF ABBREVIATIONS

Fig- figure

Js- Javascript

Sec- Section

Nav- Navigation

Algo- Algorithm

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(fig.27) contact section css output

ABSTRACT

Motive of giving undertaking is to develop, put in force a webpage software which shall we person require via eating places on line. This venture will assist customers achieve restaurants which can fulfill the individuals wishes, features delivered simultaneously, which include one's opportunity publish overview, chances of reading the entire menu for the provided restaurant. Therefore, this web page provides capability to eating place managers to look cutting-edge requirements.

So document will display complete manner while making the utility, beginning via means of designing part, at the end displaying the outcome, by way of emphasizing the distinct technology applied.

Chapter 1 | Introduction

Introduction

Mymeal.Com is an web page which provide people ability to choose and place food order from close by eating places, this have to be completed with the aid of enforcing a seek capability together kind and filter search. The consumer can choose a eating place of their desire, can skim from menu earlier than intending their need. With the help of this humans find out fresh eating places, able to get bigger desire of lists, by means of this plateform.

Software have to additionally provide eating place managers to access the coming orders of the customer, plus method of speaking with consumers. Each requirement have to seem within the manager section. They have to capable of alter restuarents menu list, an outline to his or her eating place, and add snap shots.

This software need to be available through the most famous net browsers in computer systems, cellular telephones.

Analysis

1. Socially

Goal of our venture mainly is to let humans select one's food greater as it should be, by gaining broad desire of places, menus. Providing the method of choosing less complicated, evaluation for feedbacks approximately eating places. Giving functions can useful to visitors no longer understand the nice food places inside of the region. These online systems can assist employees, college students place his/her food on-line.

2. Technologically

While creating this web page various tools , technologies are used. Such technology open-supply, may be provided to finish the mission inside the effective task.

3. Economically

Eating places may entice extra clients, with a purpose to boom their profits. primary function of software are unfastened for each the consumers, admins may be no capability loss . Few extra functions is probably delivered , to give the managers for records at their eating places, reason of assisting eating places to pick up restuarent's profits.

4. Legally

Since following website makes use of handiest unfastened open source frameworks and libraries, it'll haven't any prison effect.

5. Ethically

It is extraordinarily essential to use the software to decrease the information leakage. Each fresh functionality have to be examined so keep away from system changes, private info. have to be encrypted to keep them secure in the backends.

Food Management system based on Fingerprint Authentication

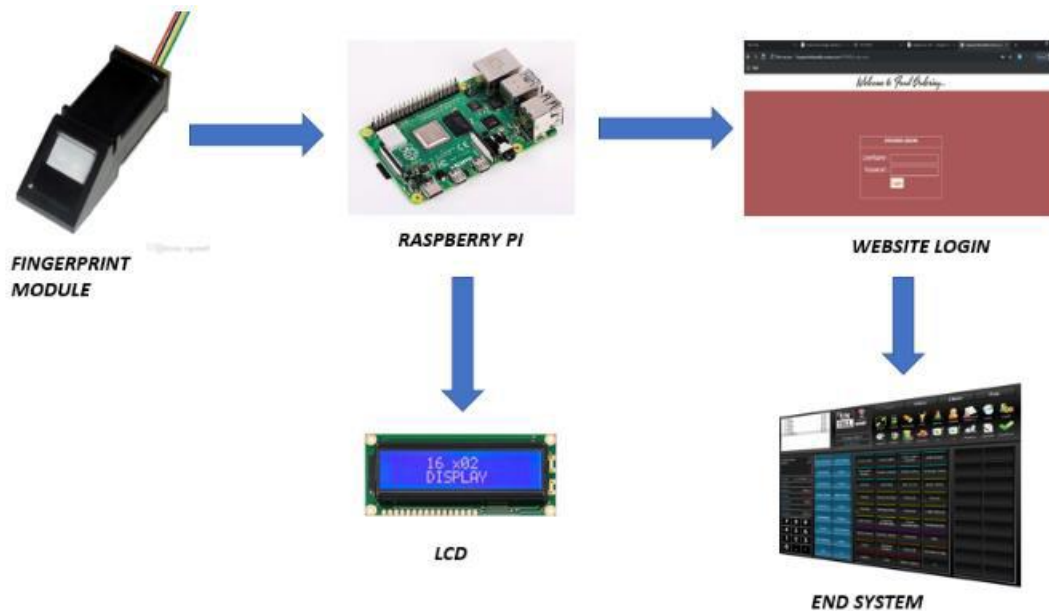
By:

1. **Manoj S.**
2. **Praveen raj**
3. **Navin kumar**

Learning:

In this paper, the proposed system so that it will make the entire food order procedure smooth and secured via on line net-portal. Here worker's info were saved in conjunction with their fingerprint templates in the database. For each day an individual precise code could be generated to the worker every time the finger is located. A unique login characteristic may be provided to the admin as a way to view and trade the worker information and it additionally has the ability to trade the e-menu or edit the e-menu together with call, charge and information of the meals gadgets. It also has the ability to show the ordered food gadgets on the employee ID foundation. The device can even include facility for generating their payments based at the meals items they've ordered on the quit of the month. This portal additionally affords a way for the worker to trade their cellular quantity and additionally their e-mail ID with the aid of

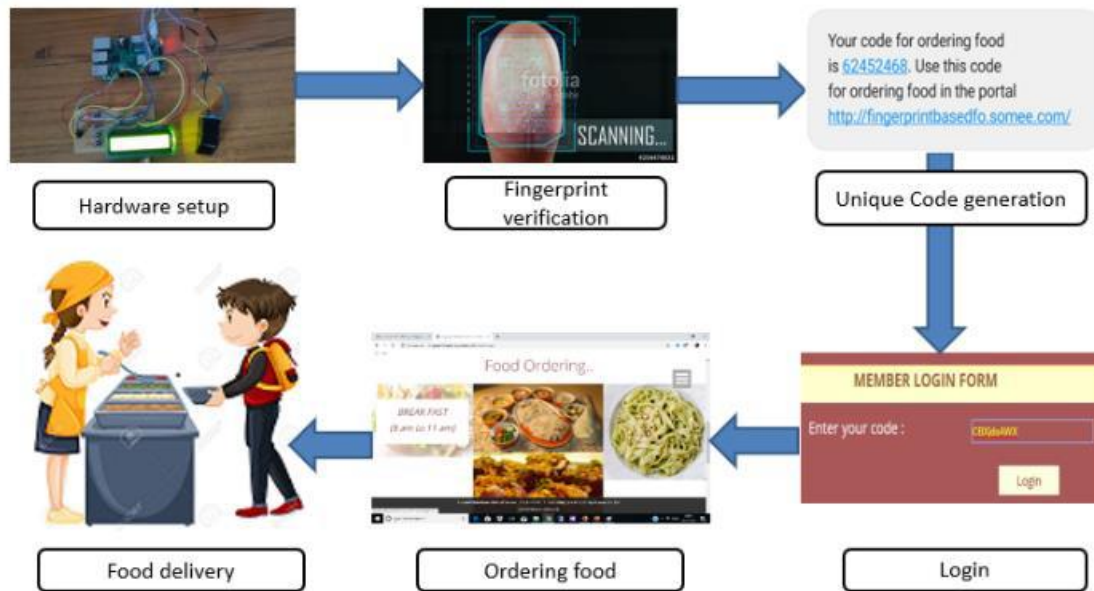
themselves each time they need and additionally, they can order the food items on the time foundation, it will be added after one hour of the cut-off date. The employee can also add the food items to the cart so one can continue or delete the ones meals gadgets and it also provide a way for employees to go into their remarks about the first-class of meals and service, so that we can accurate the ones troubles in the approaching orders. The machine will also permit us to locate approximately the final meals objects which are yet to be introduced. The bills for the complete month will be calculated and it is despatched to the worker's e-mail ID and it'll be credited from the month-to-month income of the employee.



(Fig.1) Block Diagram of proposed system

The above block diagram Fig .Three will supply the blocks worried within the system. The fingerprint module is used to scan the fingerprint, the individual has to hold the finger within the module then the template is scanned and compared with the already saved template, those evaluating of template is completed within the raspberry pi package. Once while the fingerprint template is get matched with the already existing template the rubdown “ID matched” is proven in the LCD. If it isn't matched, then “Match now not discovered” message is shown in the LCD. When the template is get matched the precise code can be generated and sent to the registered cell range. Using the internet portal, the e-meals menu may be seen, and the specified food gadgets can be ordered, and the statistics’s are get updated in the end system.

(Fig.2) Process flow of proposed system



This fig shows all the flows that are involved on this device, so with the aid of the help of that drift the proposed device may be effortlessly understood. First registration of the fingerprint registration should be completed then the fingerprint need to be confirmed with the stored template. When it receives matched the specific code can be sent, By the help of that the login and ordering of food items may be completed. Then the food will be introduced on the meals court and the feedback of the employee is likewise considered.

The Ultimatum of the Paper:

The proposed machine gives benefit of finding meals objects must be gives in assist of online meals ordering portal/section therefore the chances of food wastage is decreased in efficient way. Resulting gadget consists of biometric system, so presence and lack of the worker may be monitored effortlessly at the side of food ordering system. It is only primarily based on net page machine and unbiased platform thus this may utilized in any stage. So, by taking the reference of this machine, the workers take order without problems very efficiently as per their allotted time slots.

Development of the Cafe Web-Based System by means of Priority Scheduling Approach

By-

- 1. Fatimah G.**
- 2. Rohana**
- 3. Hariz H.**

Learning:

This paper uses the priority scheduling algo for the preparation of the food. Cafe internet primarily focuses on the 3 tier patron server model. The design of their Cafe Web primarily inspired by machine in fig 3. web page shows whilst customers/users to access the device as presentable layer. The website consists of total records of Cafe as well as the promoting price if it has. Customers can navigate thru device for the purpose of finding desired items. After that, consumer can region order depending totally one's desired items. Users upload as well as dispose individual's preference and the machine has to show the sum up fee technically is offered in layer. All customers orders have to save in their database.

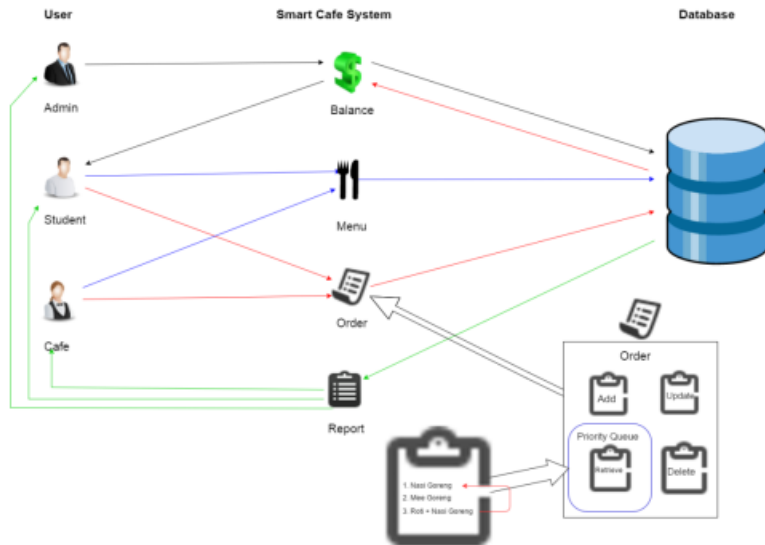
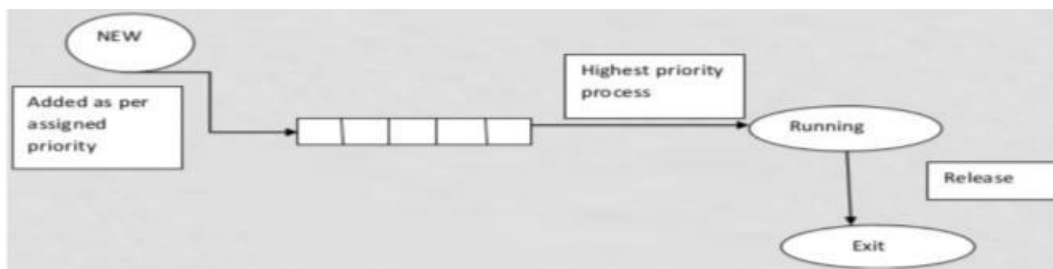


fig. 3) system's architecture

fig.3 suggests simple priority row glide put into effect in common sense layer. First, each new order might be added into the equipped queue. The order could be added based totally on per as given priority fee. Then, one with greater precedence his/her order they serve first. Later, the very best priority is proficiently took place it'll be launched / in another form can be allowed to end from prepared row.



(Fig.4) approach

Beneath displays a priority scheduling algo is applied in this approach primarily found device throughout this technique arranging the orders listing a good way

so that it can be shown in cafe done through students. Similarly, with the front order list could be fixed into the very best precedence. Apart from this, for period of arrangement with a view to implement priority queue that's referred to as geared up queue, is fix number for the aim to avoid the queue which is called up to date want to await larger term from placing/serving.

Implementation

The Implementation of the system is procedure of having the system's running well, which includes set up, configuration, walking, checking out , also providing important adjustments

(Fig.5): User login



(Fig.6): Homepage

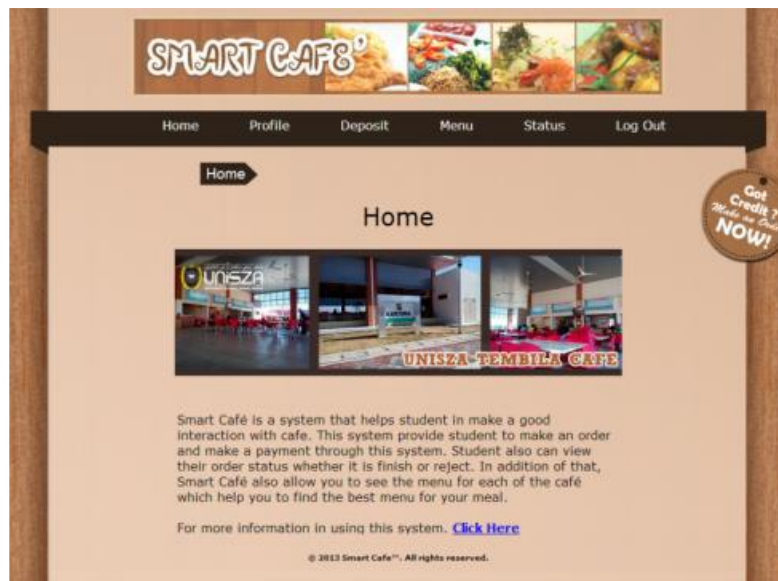
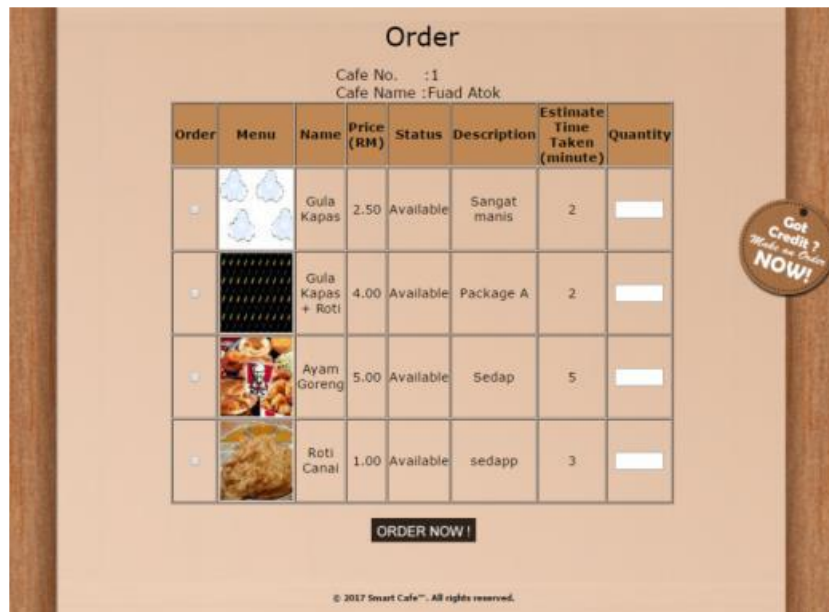


Fig.6 suggests the pupil home section. It may first web page that the students come across post the login completion. It has information approximately the procedure for college students so they can desire more. Also, college students have to click on at “Click Here” for robotically get person guide guidelines.



(Fig. 7): Student's order form

Above fig indicates the page for pupil so that they pick out menu. They are now able to see all menus supplied. They can done ordering process via tickets at "Order" after the menu. Post completing our Menu in the given receipt then they will directed to "Order Now".



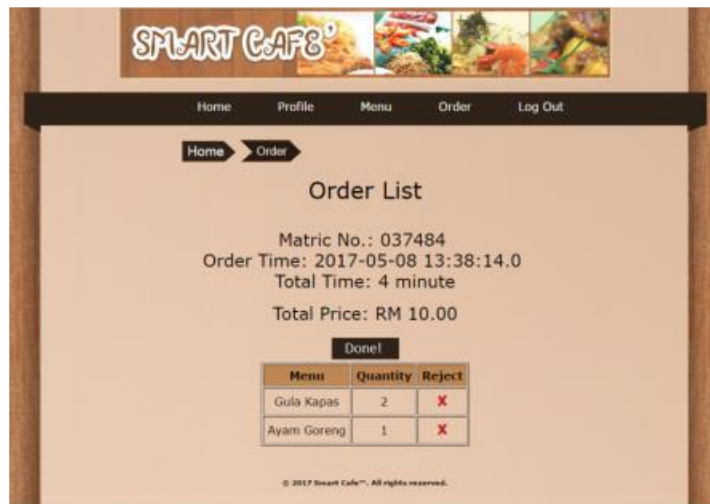
(Fig. 8): Order confirmation process

This Fig. indicates the scholar's page to verify the order within the menu's form. At that section pupil can see their order's information which includes the café's id, cafe Name, order placing time, Time duration and the total amount. In case pupil desires to place their order, they desire press on "Okay!" option or in case they desire to avoid order. Individuals will be able to click on on the "Reject" option.



(Fig. 9) menu list

Fig. indicates a web page which they made for kitchen in purpose to deal with the order using the First Come First Serve algo. Admins are able to see the info of order via pressing the "View" option.



(Fig. 10)

Above indicates a web page so that they can directly see details of order placed. The Café can use alternatives both in case to take orders, as taken by way of tapping in option “Done!” later it can finish their order / cancel the already given order.

OUTCOME

The outcome of this system is shown below after the Implementation-

Table 2: output in the form of table for this system

Table 2: Result of Café web based System Analysis

Test Module	Expected Result	Actual Result
Initializing systems by adding all items into database	All items can be viewed in database and ready to be used	Success
Update the password	system verifies username and password	Success
Add, remove and update preferred item into table	List of item of menu and	successfully adds a new menu

Above table indicates the 5 back to back ordered with concluded meals preparation time and precedence is ready for every order. The usual time to prepare the total ordered food is seventy five minutes. We agenda those placed orders in keeping with above table with way of the usage of first come first serve as well as precedence scheduling. Two given fried rice plates are blended to be one menu. The kitchen employee prepares the fried rice once for two orders. It indicates that point taken for getting ready meals is 60 minutes. We make a contrast with first come first serve algo.

Table 3: Ordered menu

Ordered Menu	Time Order	Food Preparation Time	Priority
Fried Rice	0	15 min	1
Mee Sup	0	15 min	2
Fried Mee	0	15 min	3
Nasi Paprik	0	15 min	4
Fried Rice	0	15 min	1

Table 4: Comparison of food preparation time between without priority and with Priority Scheduling Algorithm

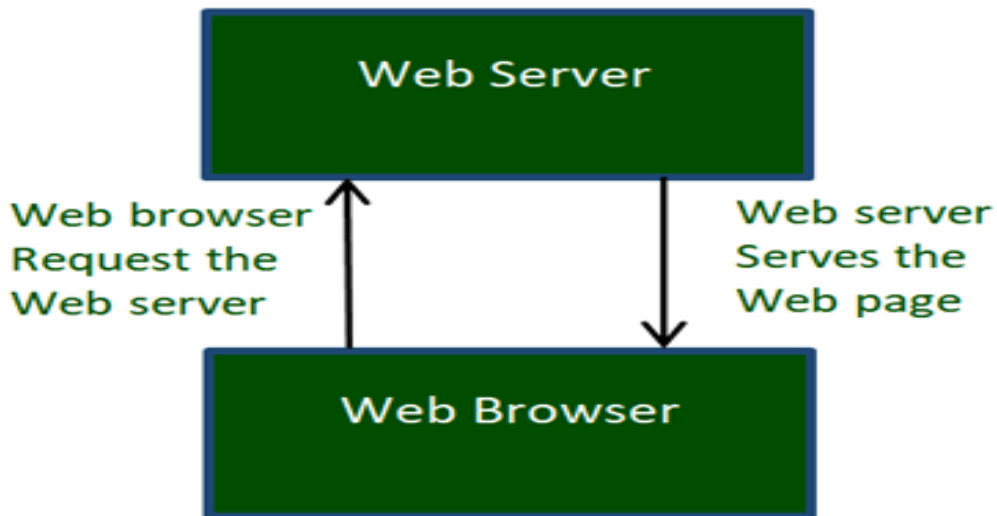
Ordered Menu	Fried Rice	Mee Soup	Fried Mee	Nasi Paprik	Fried Rice	Without Priority
Food preparation Time	15	30	45	60	75	
Ordered Menu	Fried Rice	Mee Sup	Fried Mee	Nasi Paprik		With Priority
Food preparation Time	15	30	45	60		

The Ultimatum of the Paper:

In this paper the on-line gadget is enhancing the guide structures in phrases of employees as well as time duration. The unpredictability of statistics for ordering method will be decreases, that's why it can effectively produces total associated records. As, the concern scheduling process has been verified as lessen took time for meals getting ready offerings. It provides cookings for dealing with ordering system. Later, priority scheduling results in providing the starvation, destiny paintings is focused on client totally enhancement to decorate the priority scheduling.

Chapter3- Requirement specifications

Basic Overview of how website works-



(Fig11)

Normally, a customer or a user sends a request to the internet server of the internet site, he/she desires to visit. The net server that has its own IP cope with stores all the files within the backend which may be written in PHP, Python, or Node.js. The web server sends a response to the customer within the form of HTML, CSS, and JavaScript.

a. The Functionality Required

In case of users-

- The user must be able to sign up the use of their gmail deal with or Facebook account
- They will be capable of search for eating places with the aid of category, town, and name
- A consumer will be capable of sorting the food places via using closest, maximum trendy, and nicely reviewed
- Person will be capable of searching outcomes through placing order kind, sections, and descriptions.
- Users will be capable of getting add on facts about a particular place consisting of category, starting hrs, deal with, as well as snapshots.
- The users will be allowed to rate, also post a review approximately a foodcourt.
- A person must be capable to see the common rating of the restaurant , also opinions given by different customers
- They will be capable of seeing the eating place's menulist
- They will be capable of choose objects from the place's menulist.
- Already log in consumer must be capable of making the order with their

chosen items the eating place's list

- He/she will be eligible to view the history of their past orders.

In case of Managers-

- A supervisor will be able to sign on via their e-mail

- A supervisor must be capable of signing in the usage of their e-mail

- The manager will be able to upload an eating place

- The managers will be capable of adding a menu to his/her eating place

- The managers have to be capable of manipulating the obtained orders

- A supervisor will be capable of viewing clients

- A manager will be capable of alternating eating places data

.

B. Non-useful requirements

1. Performance

- Initial load time has to not exceed one second

- API requests shall no longer exceed 500ms

2. Scalability

- The growing amount of customers need to not harm the outcome of the software

- add on functions must be easy to use enforce with less difficulty

4. Issue of security

a) Confidentiality

- Traffic confidentiality will be included, all functions done via customers need to be preserved

b) Integrity

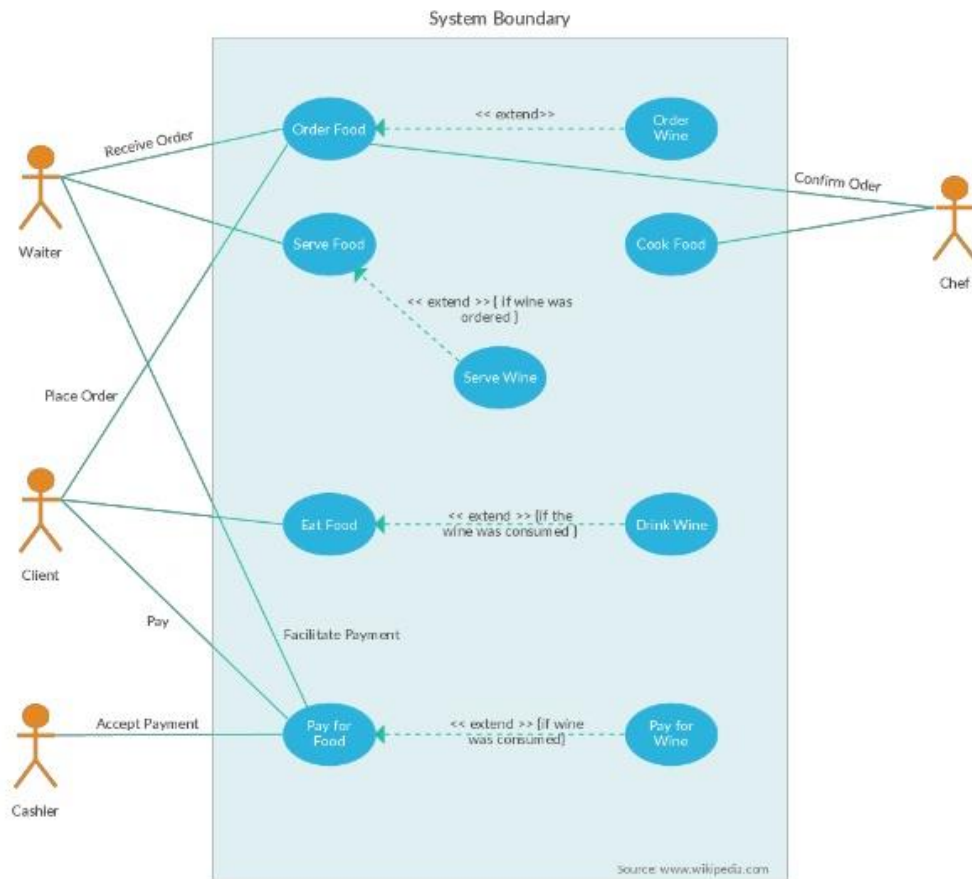
- The sum up of all functions finished by way of users have to be secured

c) Availability

- Not Any factor of failure will accepted.

Our Use Case Diagram

Use case diagram:



(Fig.12)

Technologies Used

A. Languages and frameworks

I determined to use javascript, HTML and CSS for the frontend . HTML stands for Hypertext markup language is a markup language vital for constructing an internet software, it's miles used to explain the shape of a web web page . A cascading style sheet (CSS) need to also be added for a higher design [8]. While HTML is used for structuring the internet web page, CSS is used for styling. It allows to have complete manage over the colors, fonts, and other critical elements of web design. In addition to those languages, I used javascript, which makes the web page greater dynamic and interactive.

At first, while javascript become released in 1995 , it changed into used inside the purchaser side and interpreted with the aid of internet browsers for the manipulation of the report object model (DOM) . The language has advanced a lot over time, it could now be used out of doors of the browser with NodeJS, that is a runtime surroundings for javascript . Released in 2009 , NodeJS shall we developers write javascript code for the backend. In order to make the implementation simpler with the aid of following the first-class practices and to have a better consumer revel in, I decided to apply frameworks: Html, css for the frontend, and Express for the backend

C. NodeJs

Nodejs , it become first releases in 2009 for the purpose to run/use js code at the server facet. The speciality of using NodeJs is its single threaded nature, which may be a downside, however way with non-blocking off input/output, it helps hundreds of back to back . Apart from NodeJs, I used expressjs, which is a micro framework that facilitates imparting the essential features for building APIs.

For this mission, , that's an open-source statistics query and manipulation language for APIs, it turned into used by Facebook internally earlier than making. As stated within the reliable Graphql internet site: “GraphQL is a question language for APIs and a runtime for pleasant those queries together with your existing records. GraphQL provides a whole and understandable description of the information in your API, gives clients the electricity to ask for exactly what they want and not anything greater, makes it less complicated to adapt APIs over the years, and permits effective developer tools.”, GraphQL has a single endpoint, and returns only the asked fields, no extra, no much less. This way, we will get many sources from a unmarried request, which enables in attaining better performance whilst saving information. Figure five shows an example of a request using GraphQL

This challenge follows a model-view-controller (MVC) architecture, with the

view being generated by vuejs, and the model/controller by means of NodeJs. However, due to the fact GraphQL wishes best one endpoint, we will need simplest one controller which handles all requests.

The controller calls a GraphQL schema, which contains numerous type definitions and resolvers. Type definition represents the shape of the software via defining item sorts and their attributes. Resolvers deals with the inner common sense of the application to retrieve and modify information. There are two styles of resolvers:

- We have used Queries: for information outcome.
- We have used Mutations: for information visualization.

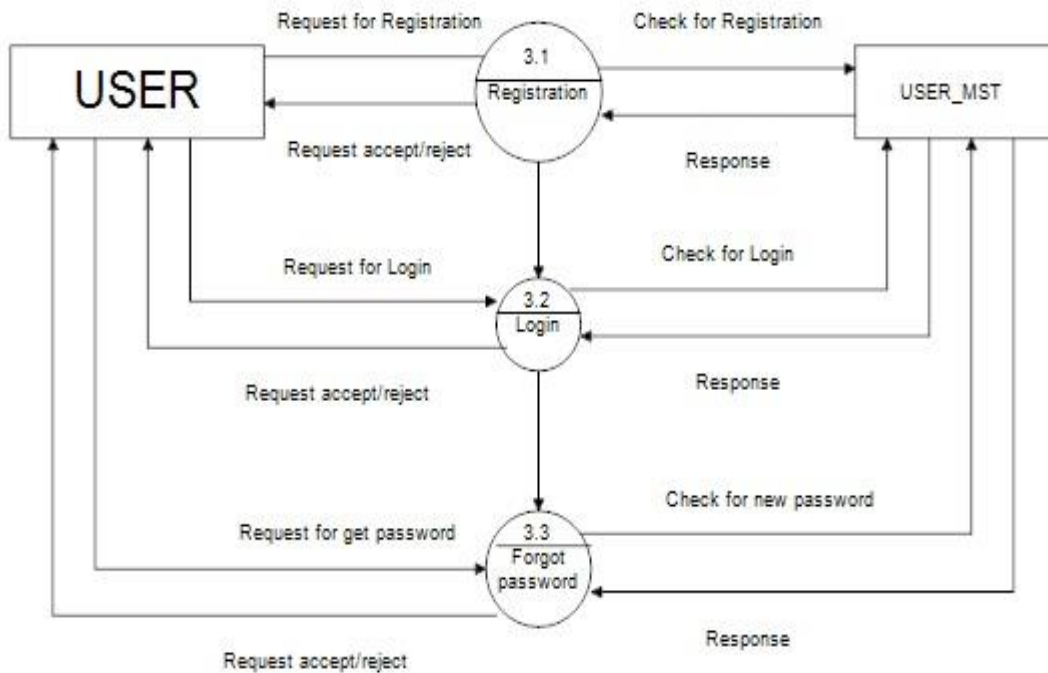
D. Database

For the Database purpose, we used MongoDB, that is a non-relational gadget DBMS. As we know MongoDB is a NoSQL data storing technique, it provides extra access to store and retrieve statistics via abling several statistics kinds. Users are able to keep various datatypes like numbers and dates like other databases along with MySQL, plus arrays and objects. Hence, fetching information will become easy, it also decreases the chance of using complicated commands. MongoDB has the sotorage of , which is the equal of a desk in a relational database. Every series contains files, which can be of types BSON, a binary illustration of JSON (javascript object notation). These documents keep the information, in addition to a row in a relational database. However, those collections do now not put in force a schema, which gives a first rate flexibility of storing facts, but with the drawback of dealing with continual statistics storage, which might also result in destiny bugs and mistakes. This is one of the reasons I selected mongoose as an ORM, it enforces the usage of a schema, and makes the

communicate with storage is less difficult.

Due to these speciality of database I decided to use MongoDB is its amazing aid even in general operations in net programs. In the case of Foodcourt, there's a search bar to search for eating places, the result have to be looked after by means of relevance. MongoDB offers the opportunity for seek queries with the aid of indexing the attributes to go looking. For the search operation, MongoDB gives a relevance rating for every report, relying on how well it fits the fubctions , then the result may be taken care of from the very best.

Data Flow Diagram



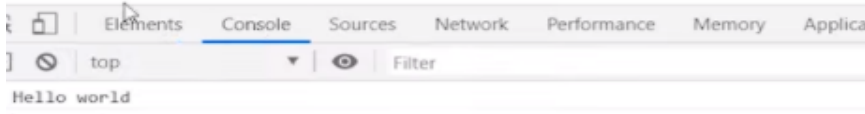
(Fig. 13) Data Flow Diagram

This is how we can include the javascript in our html file.

```
<body>
  <div class="container">
    <div class="row">
      <p>
        This is a row in this container
      </p>
    </div>
  </div>
  <script>
    //Write your js here
    console.log('Hello world');
  </script>
</body>
</html>
```

(Fig.14)Simple js code

This will display hello world in the console section of our browser



(Fig.15) output of above js

This is the html file for my website

```
Index.html > html > Body > nav#navbar > ul > li.item
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Online Food Delivery Services</title>
8   <link rel="stylesheet" href="css/style.css">
9   <link rel="preconnect" href="https://fonts.gstatic.com">
10  <link rel="stylesheet" media="screen and (max-width: 1170px)" href="/CSS/phone.css">
11  <link href="https://fonts.googleapis.com/css2?family=Baloo+Bhai+2:wght@600&display=swap" rel="stylesheet">
12 </head>
13 <body>
14   <nav id="navbar">
15     <div id="logo">
16       
17     </div>
18     <ul>
19       <li class="item"><a href="#home">Home</a></li>
20       <li class="item"><a href="#services-container">Services</a></li>
21       <li class="item"><a href="#client-section">Our Clients</a></li>
22       <li class="item"><a href="#contact">Contact Us</a></li>
23     </ul>
24   </nav>
25   <section id="home">
26     <h1 class="h-primary">Welcome to MyMeal</h1>
27     <p>We are here to serve you the best meals from the comfort of your home. </p>
28     <p>Check out our menu, if you are feeling hungry. </p>
29     <button class="btn">Order Now</button>
30   </section>
31   <section id="services-container">
32     <h1 class="h-primary center">Our Services</h1>
33     <div id="services">
34       <div class="box">
35         
36         <h2 class="h-secondary center">Food Catering</h2>
37         <p class="center">Lorem ipsum dolor sit, amet consectetur adipisicing elit. Quidem, culpa suscipit error
38         Lorem ipsum dolor sit, amet consectetur adipisicing elit. Et qui, repudiandae similique nam, recusandae quidem ab, aspernatur
Spaces: 4 UTF-8 CRLF H
```

(Fig.16)

```

    </div>
    <div class="client-item">
      
    </div>
    <div class="client-item">
      
    </div>
  </div>
</section>
<section id="contact">
  <h1 class="h-primary center">Contact Us</h1>
  <div id="contact-box">
    <form action="">
      <div class="form-group">
        <label for="name">Name: </label>
        <input type="text" name="name" id="name" placeholder="Enter your name">
      </div>
      <div class="form-group">
        <label for="email">Email: </label>
        <input type="email" name="name" id="email" placeholder="Enter your email">
      </div>
      <div class="form-group">
        <label for="phone">Phone Number: </label>
        <input type="phone" name="name" id="phone" placeholder="Enter your phone">
      </div>
      <div class="form-group">
        <label for="message">Message: </label>
        <textarea name="message" id="message" cols="30" rows="10"></textarea>
      </div>
    </form>
  </div>
</section>
<footer>
  <div class="center">
    Copyright &copy; www.MyMeal.com. All rights reserved!
  </div>

```

(Fig17)

Chapter 4| Performance Analysis

I have created style.css file for the styling of my website.

For the navigation bar of our home section.

```
/* Navigation Bar */
#navbar{
  display: flex;
  align-items: center;
  position: sticky;
  top: 0px;
}

#navbar::before{
  content: "";
  background-color: black;
  position: absolute;
  top:0px;
  left:0px;
  height: 100%;
  width:100%;
  z-index: -1;
  opacity: 0.7;
}

/* Navigation Bar: Logo and Image */
#logo{
  margin: 10px 34px;
}

#logo img{
  height: 59px;
  margin: 3px 6px;
}

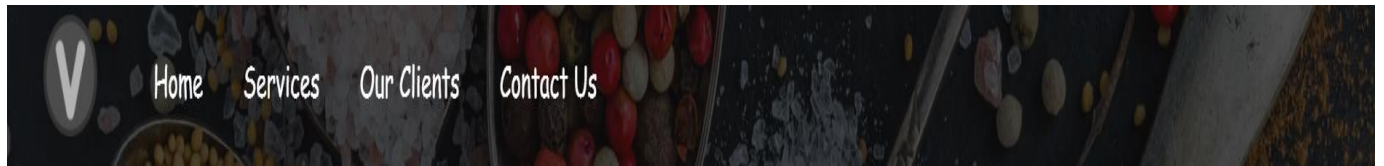
/* Navigation Bar: List Styling */

#navbar ul{
  display: flex;
```

(Fig18)

This is how our navigation bar looks after styling using CSS.

(Fig.19)



For home section

```
/* Home Section */
#home{
  display: flex;
  flex-direction: column;
  padding: 3px 200px;
  height: 550px;
  justify-content: center;
  align-items: center;
}

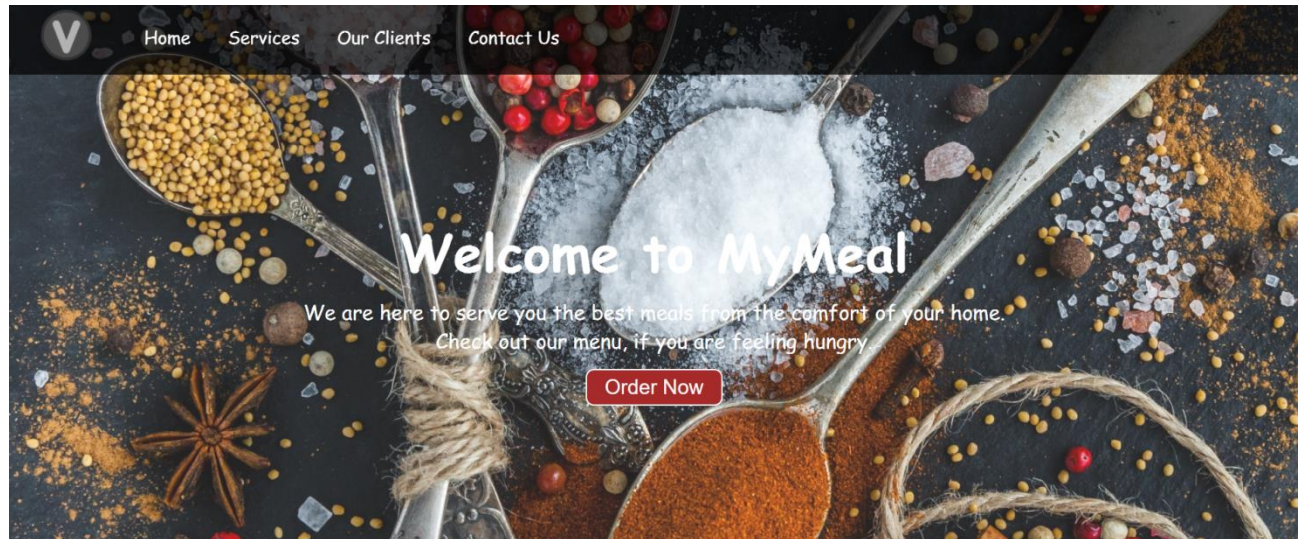
#home::before{
  content: "";
  position: absolute;
  background: url('/mylogo/images/background.jpg') no-repeat center center/cover;
  height: 642px;
  top: 0px;
  left: 0px;
  width: 100%;
  z-index: -1;
  opacity: 0.87;
}

#home h1{
  color: white;
  text-align: center;
  font-family: 'Baloo Bhai', cursive;
}

#home p{
  color: white;
  text-align: center;
  font-size: 1.5rem;
  font-family: 'Baloo Bhai', cursive;
}
```

This is how home section looks after CSS styling.

(Fig.20)



(Fig.21)

Css styling for services section-

```

/* Services Section */
#services{
  margin: 34px;
  display: flex;
}
#services .box{
  border: 2px solid #brown;
  padding: 34px;
  margin: 2px 55px;
  border-radius: 28px;
  background: #f2f2f2;
  margin-bottom: 20px;
}


#services .box img{
  height: 160px;
  margin: auto;
  display: block;
}

#services .box p{
  font-family: 'Baloo Bhai', cursive;
}

```


(Fig.22)

Our Services




Food Catering

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Quidem, culpa suscipit error Lorem ipsum dolor sit, amet consectetur adipisicing elit. Et qui, repudiandae similique nam, recusandae quidem ab asperiores ex, aut fugit labore veritatis facere? sint delectus ab dolorum nam. Debitis facere, incidunt voluptates eos, mollitia voluptatem iste sunt voluptas beatæ facilis labore, omnis sint quæ eum.



Bulk Ordering

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Quidem, culpa suscipit error Lorem ipsum dolor sit amet consectetur adipisicing elit. Unde laudantium a incidunt animi ad, ab dignissimos vero? Unde numquam odit repudiandae, perferendis nisi, sint delectus ab dolorum nam. Debitis facere, incidunt voluptates eos, mollitia voluptatem iste sunt voluptas beatæ facilis labore, omnis sint quæ eum.



Food Ordering

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(Fig.23)

Css styling for client section-

```
/* Clients Section */
#client-section{
  position: relative;
}

#client-section::before{
  content: "";
  position: absolute;
  background: url('/mylogo/images/bg2.jpg') no-repeat center center/cover;;
  width: 100%;
  height: 100%;
  z-index: -1;
  opacity: 0.4;
}

#clients{
  display: flex;
  justify-content: center;
  align-items: center;
}

.client-item{
  padding: 34px;
}

#clients img{
  height: 124px;
}
```

(Fig.24)



(Fig.25)

CSS styling for contact section

(fig.26)

```
/* Contact Section */
#contact{
  position: relative;
}
#contact::before{
  content: "";
  position: absolute;
  width: 100%;
  height: 100%;
  z-index: -1;
  opacity: 0.7;
  background: url('/mylogo/images/contact.jpg') no-repeat center center/cover;
}
#contact-box{
  display: flex;
  justify-content: center;
  align-items: center;
  padding-bottom: 34px;
}
#contact-box input,
#contact-box textarea{
  width: 100%;
  padding: 0.5rem;
  border-radius: 9px;
  font-size: 1.1rem;
}
#contact-box form{
  width: 40%;
}
#contact-box label{
  font-size: 1.3rem;
  font-family: 'Baloo Bhai', cursive;
}
```

Contact Us

Name:

Email:

Phone Number:

Message:

(Fig.27)

Future Aspects:

We have opportunities for the enhancement of my project in further paintings.

Example, we will put up extra capabilities at our manager's section on the way to assist in higher knowledge consumers, and economic outcomes. Apart from this development could indicate fresh eating places for customer by using his/her past preference, the way of the use of device learning algorithms. For now, the consumer pays only with the aid of coins while the customer's requirement is fulfilled; but, it might be preferable incase consumer may want to pay by credit score or debit card.

Chapter 5| Conclusion

MyMeal.Com turned into an thrilling mission , I have worked on many wonderful techniques to get the desired output. I used javascript and NodeJs turned into very thrilling, a good knowledge in programming made a bonus point , and knowledge of new features. With the help of this project I learned approximately most current/recent tools , technologies and frameworks which includes in-browser javascript, Nodejs, MongoDB etc .

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by

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MyMeal.com(Food Delivery Website)

Project report submitted in fulfillment of the requirement for the degree of
Bachelor of Technology

In

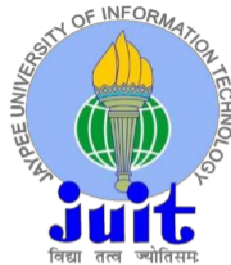
Computer Science and Engineering/Information Technology

Submitted by-

Vasundhara Tripathi [171355]

Supervised By

Dr. Himanshu Jindal

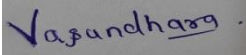


**Department of Computer Science & Engineering and Information
Technology**

Jaypee University of Information Technology, Solan-173234, (H.P)

CERTIFICATE

This is to confirm that the work is reportable within B.Tech titled
“MyMeal.com(Food Delivery Website)”, submitted by Vasundhara Tripathi
[171355] at the Jaypee University of Information Technology, Waknaghat, be
A legal record of her actual work distributed for the major project for even
semester i.e. from January 2021 until May2021.
This work has not been submitted elsewhere for degree or certificate.

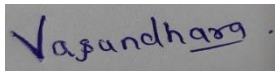
A rectangular box containing a handwritten signature in blue ink that reads "Vasundhara".

Vasundhara Tripathi (171355)

ACKNOWLEDGEMENT

This acknowledgement is a profound expression of regard for all those who have made this work unerasable.

- I am extremely indebted to professor. Dr. Samir Dev Gupta, Head, Department of Engineering for giving the golden chance and amenities needed to hold out this project with success.
- I offer feeling and appreciation to my project supervisor Dr. Himanshu Jindal for his steering and constant direction further as for providing all (the necessary, the needed, the mandatory } info required for the completion of this project.
- I would wish to specific my sincere feeling and appreciation to Mr. Ravi who gave his precious time and provided all the software and system needed throughout the project.

A handwritten signature in blue ink that reads "Vasundhara" with a small flourish at the end.

Vasundhara Tripathi (171355)

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LIST OF ABBREVIATIONS

Fig- figure

Js- Javascript

Sec- Section

Nav- Navigation

Algo- Algorithm

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ABSTRACT

Motive of giving undertaking is to develop, put in force a webpage software which shall we person require via eating places on line. This venture will assist customers achieve restaurants which can fulfill the individuals wishes, features delivered simultaneously, which include one's opportunity publish overview, chances of reading the entire menu for the provided restaurant. Therefore, this web page provides capability to eating place managers to look cutting-edge requirements.

So document will display complete manner while making the utility, beginning via means of designing part, at the end displaying the outcome, by way of emphasizing the distinct technology applied.

Chapter * I **Introduction**

Introduction

Mymeal.Com is an web page which provide people ability to choose and place food order from close by eating places, this have to be completed with the aid of enforcing a seek capability together kind and filter search. The consumer can choose a eating place of their desire, can skim from menu earlier than intending their need. With the help of this humans find out fresh eating places, able to get bigger desire of lists, by means of this plateform.

Software have to additionally provide eating place managers to access the coming orders of the customer, plus method of speaking with consumers. Each requirement have to seem within the manager section. They have to capable of alter restuarents menu list, an outline to his or her eating place, and add snap shots.

This software need to be available through the most famous net browsers in computer systems, cellular telephones.

Analysis

1. Socially

Goal of our venture mainly is to let humans select one's food greater as it should be, by gaining broad desire of places, menus. Providing the method of choosing less complicated, evaluation for feedbacks approximately eating places. Giving functions can useful to visitors no longer understand the nice food places inside of the region. These online systems can assist employees, college students place his/her food on-line.

2. Technologically

While creating this web page various tools , technologies are used. Such technology open-supply, may be provided to finish the mission inside the effective task.

3. Economically

Eating places may entice extra clients, with a purpose to boom their profits. primary function of software are unfastened for each the consumers, admins may be no capability loss . Few extra functions is probably delivered , to give the managers for records at their eating places, reason of assisting eating places to pick up restuarent's profits.

4. Legally

Since following website makes use of handiest unfastened open source frameworks and libraries, it'll haven't any prison effect.

5. Ethically

It is extraordinarily essential to use the software to decrease the information leakage. Each fresh functionality have to examined so keep away from system changes, private info. have to be encrypted to keep them secure in the backends.

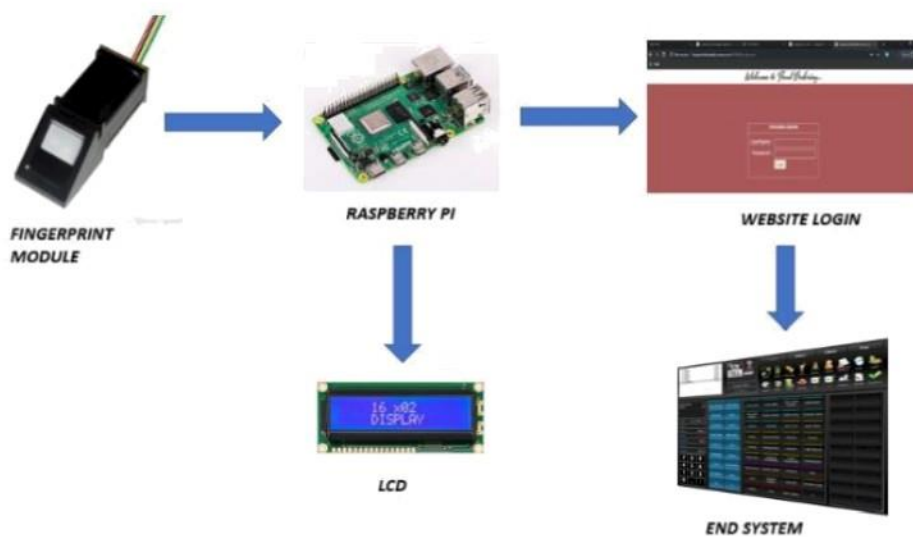
Food Management system based on Fingerprint Authentication

1. Manoj S.
2. Praveen raj
3. Navin kumar

Learning:

In this paper, the proposed system so that it will make the entire food order procedure smooth and secured via on line net-portal. Here worker's info were saved in conjunction with their fingerprint templates in the database. For each day an individual precise code could be generated to the worker every time the finger is located. A unique login characteristic may be provided to the admin as a way to view and trade the worker information and it additionally has the ability to trade the e-menu or edit the e-menu together with call, charge and information of the meals gadgets. It also has the ability to show the ordered food gadgets on the employee ID foundation. The device can even include facility for generating their payments based at the meals items they've ordered on the quit of the month. This portal additionally affords a way for the worker to trade their cellular quantity and additionally their e-mail ID with the aid of

themselves each time they need and additionally, they can order the food items on the time foundation, it will be added after one hour of the cut-off date. The employee can also add the food items to the cart so one can continue or delete the ones meals gadgets and it also provide a way for employees to go into their remarks about the first-class of meals and service, so that we can accurate the ones troubles in the approaching orders. The machine will also permit us to locate approximately the final meals objects which are yet to be introduced. The bills for the complete month will be calculated and it is despatched to the worker's e-mail ID and it'll be credited from the month-to-month income of the employee.

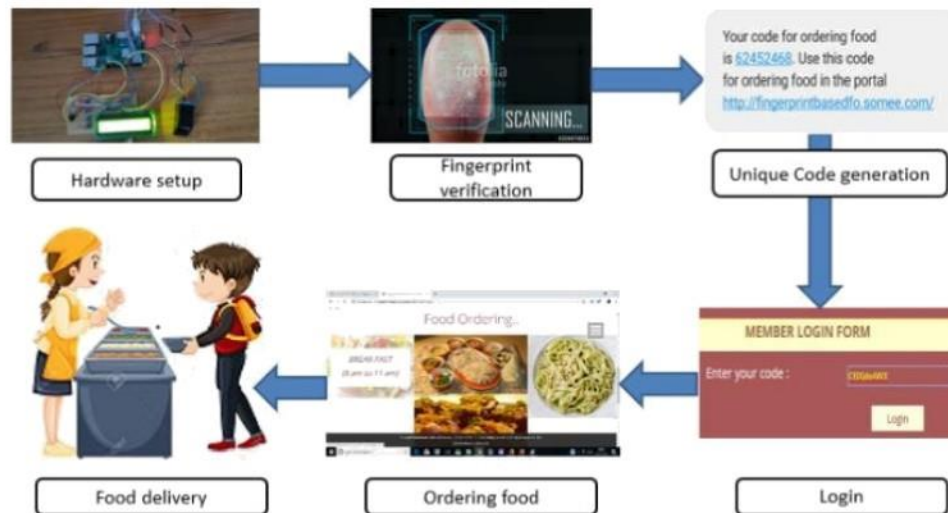


7

(Fig.1) Block Diagram of proposed system

The above block diagram Fig. Three will supply the blocks worried within the system. The fingerprint module is used to scan the fingerprint, the individual has to hold the finger within the module then the template is scanned and compared with the already saved template, those evaluating of template is completed within the raspberry pi package. Once while the fingerprint template is get matched with the already existing template the rubdown "ID matched" is proven in the LCD. If it isn't matched, then "Match now not discovered" message is shown in the LCD. When the template is get matched the precise code can be generated and sent to the registered cell range. Using the internet portal, the e-meals menu may be seen, and the specified food gadgets can be ordered, and the statistics's are get updated in the end system.

(Fig.2) Process flow of proposed system



This fig shows all the flows that are involved on this device, so with the aid of the help of that drift the proposed device may be effortlessly understood. First registration of the fingerprint registration should be completed then the fingerprint need to be confirmed with the stored template. When it receives matched the specific code can be sent, By the help of that the login and ordering of food items may be completed. Then the food will be introduced on the meals court and the feedback of the employee is likewise considered.

The Ultimatum of the Paper:

The proposed machine gives benefit of finding meals objects must be gives in assist of online meals ordering portal/section therefore the chances of food wastage is decreased in efficient way. Resulting gadget consists of biometric system, so presence and lack of the worker may be monitored effortlessly at the side of food ordering system. It is only primarily based on net page machine and unbiased platform thus this may utilized in any stage. So, by taking the reference of this machine, the workers take order without problems very efficiently as per their alloted time slots.

3

Development of the Cafe Web-Based System by means of Priority Scheduling Approach

By-

1. **Fatimah G.**
2. **Rohana**
3. **Hariz H.**

Learning:

This paper uses the priority scheduling algo for the preparation of the food. Cafe internet primarily focuses on the 3 tier patron server model. The design of their Cafe Web primarily inspired by machine in fig 3. web page shows whilst customers/users to access the device as presentable layer. The website consists of total records of Cafe as well as the promoting price if it has. Customers can navigate thru device for the purpose of finding desired items. After that, consumer can region order depending totally one's desired items. Users upload as well as dispose individual's preference and the machine has to show the sum up fee technically is offered in layer. All customers orders have to save in their database.

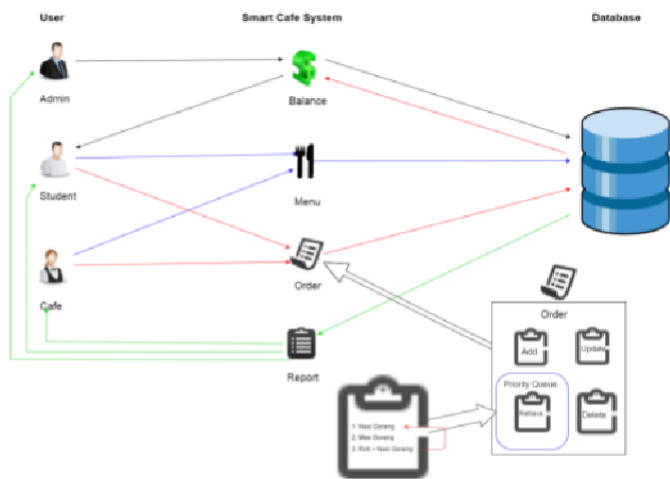
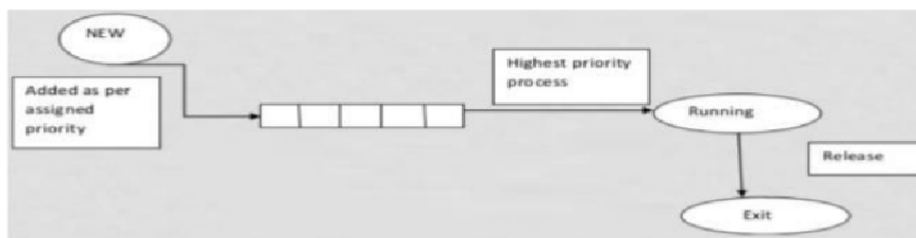


fig. 3) system's architecture

fig.3 suggests simple priority row glide put into effect in common sense layer. First, each new order might be added into the equipped queue. The order could be added based totally on per as given priority fee. Then, one with greater precedence his/her order they serve first. Later, the very best priority is proficiently took place it'll be launched / in another form can be allowed to end from prepared row.



(Fig.4) approach

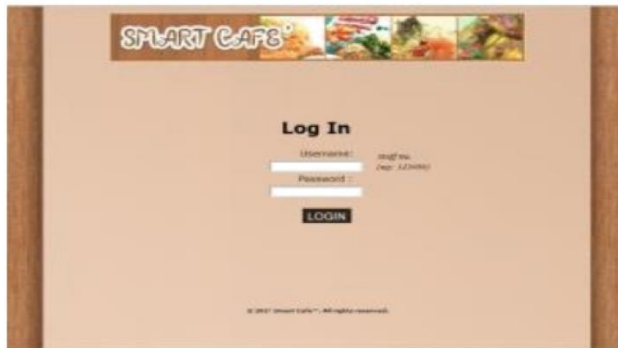
Beneath displays a priority scheduling algo is applied in this approach primarily found device throughout this technique arranging the orders listing a good way

so that it can be shown in cafe done through students. Similarly, with the front order list could be fixed into the very best precedence. Apart from this, for period of arrangement with a view to implement priority queue that's referred to as geared up queue, is fix number for the aim to avoid the queue which is called up to date want to await larger term from placing/serving.

Implementation

The Implementation of the system is procedure of having the system's running well, which includes set up, configuration, walking, checking out, also providing important adjustments

(Fig.5): User login



(Fig.6): Homepage

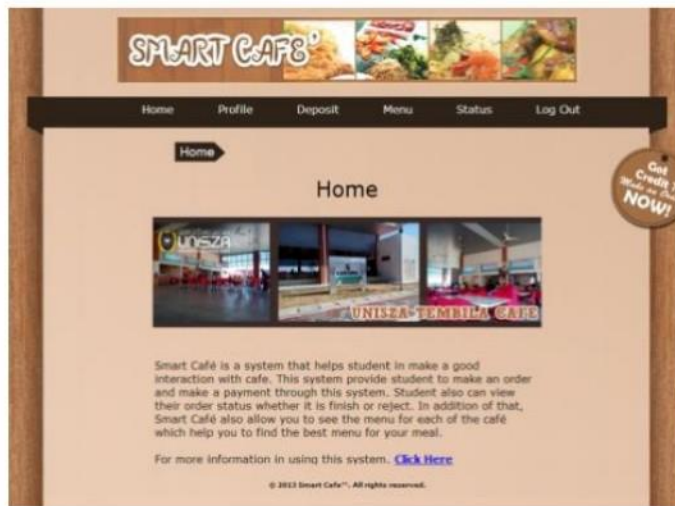


Fig.6 suggests the pupil home section. It may first web page that the students come accross post the login completion. It has in-formation approximately the procedure for college students so they can desire more. Also, college students have to click on at "Click Here" for robotically get person guide guidelines.



(Fig. 7): Student's order form

Above fig indicates the page for pupil so that they pick out menu. They are now able to see all menus supplied. They can done ordering process via tickets at "Order" after the menu. Post completing our Menu in the given receipt then they will directed to "Order Now".



(Fig. 8): Order confirmation process

This Fig. indicates the scholar's page to verify the order within the menu's form. At that section pupil can see their order's information which includes the café's id, cafe Name, order placing time , Time duration and the total amount. In case pupil desires to place their order, they desires press on "Okay!" option or in case they desires to avoid order. Individuals will be able to click on on the "Reject" option.



(Fig. 9) menu list

Fig. indicates a web page which they made for kitchen in purpose to deal with the order using the First Come First Serve algo. Admins are able to see the info of order via pressing the "View" option.



(Fig. 10)

Above indicates a web page so that they can directly see details of order placed
The Café can use alternatives both incase to take orders fame taken by way of
tapping in option “Done!” later it can finishes their order / cancel the already
given order.

OUTCOME

The outcome of this system is shown below after the Implementation-

Table 2: output in the form of table for this system

Table 2: Result of Café web based System Analysis

Test Module	Expected Result	Actual Result
Initializing systems by adding all items into database	All items can be viewed in database and ready to be used	Success
Update the password	system verifies username and password	Success
Add, remove and update preferred item into table	List of item of menu and	successfully adds a new menu

above table indicates the 5 back to back ordered with concluded meals preparation time and precedence is ready for every order. The usual time to prepare the total ordered food is seventy five minutes. We agenda those placed orders in keeping with above table with way of the usage of first come first serve as well as precedence scheduling. Two given fried rice plates are blended to be one menu. The kitchen employee prepares the fried rice once for two orders. It indicates that point taken for getting ready meals is 60 minutes. We make a contrast with first come first serve algo.

Table 3: Ordered menu

Ordered Menu	Time Order	Food Preparation Time	Priority
Fried Rice	0	15 min	1
Mee Sup	0	15 min	2
Fried Mee	0	15 min	3
Nasi Paprik	0	15 min	4
Fried Rice	0	15 min	1

Table 4: Comparison of food preparation time between without priority and with Priority Scheduling Algorithm

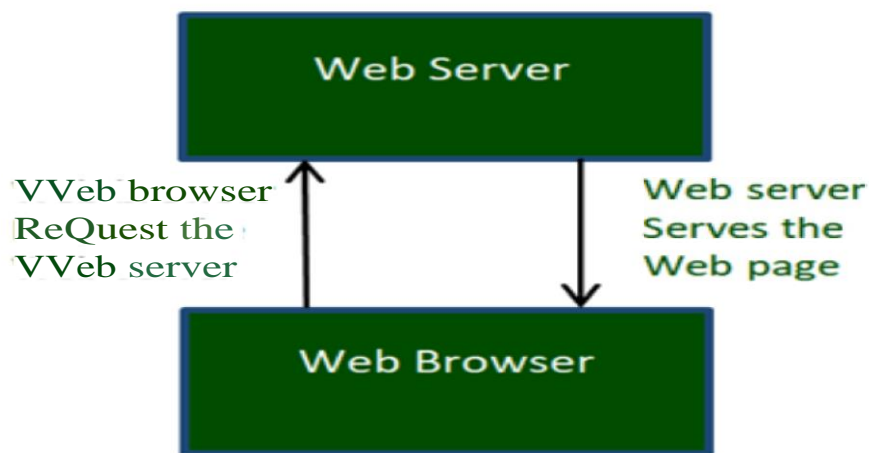
Menu	Fried Rice	Mee Soup	Fried Mee	Nasi Paprik	Fried Rice	
Food preparation	15	30	45	60	75	Without Priority
Ordered food	Fried Rice	Mee Soup	Fried Mee	Nasi Paprik		With Priority
Food	15	30	45	60		

The Ultimatum of the Paper:

In this paper the on-line gadget is enhancing the guide structures in phrases of employees as well as time duration. The unpredictability of statistics for ordering method will be decreases, that's why it can effectively produces total associated records. As, the concern scheduling process has been verified as lessen took time for meals getting ready offerings. It provides cookings for dealing with ordering system. Later, priority scheduling results in providing the starvation, destiny paintings is focused on client totally enhancement to decorate the priority scheduling.

Chapter3- Requirement specifications

Basic Overview of how website works-



(Fig11)

Normally, a customer or a user sends a request to the internet server of the internet site, he/she desires to visit. The net server that has its own IP cope with stores all the files within the backend which may be written in PHP, Python, or Node.Js. The web server sends a response to the customer within the form of HTML, CSS, and JavaScript.

a. The Functionality Required

In case of users-

- The user must be able to sign up the use of their gmail deal with or Facebook account
- They will be capable of search for eating places with the aid of category, town, and name
- A consumer will be capable of sorting the food places via using closest, maximum trendy, and nicely reviewed
Person will be capable of searching outcomes through placing order kind, sections, and descriptions.
- Users will be capable of getting add on facts about a particular place consisting of category, starting hrs, deal with, as well as snapshots.
- The users will be allowed to rate, also post a review approximately a foodcourL
- A person must be capable to see the common rating of the restaurant , also opinions given by different customers
- They will be capable of seeing the eating place's menu list
- They will be capable of choose objects from the place's menulist.
- Already log in consumer must be capable of making the order with their

chosen items the eating place's list

- He/she will be eligible to view the history of their past orders.

In case of Managers-

- A supervisor will be able to sign on via their e-mail

- A supervisor must be capable of signing in the usage of their e-mail

- The manager will be able to upload an eating place

- The managers will be capable of adding a menu to his/her eating place

- The managers have to be capable of manipulating the obtained orders

- A supervisor will be capable of viewing clients

- A manager will be capable of alternating eating places data

.

1

B. Non-useful requirements

1. Performance

- Initial load time have to not exceed one 2nd

- API requests shall no longer exceed 500ms

2. Scalability

- The growing amount of customers need to not harm the outcome of the software

- add on functions must be easy to use enforce with less difficulty

4. Issue of security

a) Confidentiality

- Traffic confidentiality will be included, all functions done via customers need to be preserved

b) Integrity

- The sum up of all functions finished by way of users have to be secured

c) Availability

- Not Any factor of failure will accepted.

Technologies Used

¹ A. Languages and frameworks

I determined to use javascript, HTML and CSS for the frontend . HTML stands for Hypertext markup language is a markup language vital for constructing an internet software, it's miles used to explain the shape of a web web page . A cascading style sheet (CSS) need to also be added for a higher design [8]. While HTML is used for structuring the internet web page, CSS is used for styling. It allows to have complete manage over the colors, fonts, and other critical elements of web design. In addition to those languages, I used javascript, which makes the web page greater dynamic and interactive.

At first, while javascript become released in 1995 , it changed into used inside the purchaser side and interpreted with the aid of internet browsers for the manipulation of the report object model (DOM) . The language has advanced a lot over time, it could now be used out of doors of the browser with NodeJS, that is a runtime surroundings for javascript . Released in 2009 , NodeJS shall we developers write javascript code for the backend. In order to make the implementation simpler with the aid of following the first-class practices and to have a better consumer revel in, I decided to apply frameworks: Html, css for the frontend, and Express for the backend

C. NodeJs

Nodejs, it became first releases in 2009 for the purpose to run/use js code at the server facet. The speciality of using NodeJs is its single threaded nature, which may be a downside, however way with non-blocking off input/output, it helps hundreds of back to back. Apart from NodeJs, I used expressjs, which is a micro framework that facilitates imparting the essential features for building APIs.

For this mission, that's an open-source statistics query and manipulation language for APIs, it turned into used by Facebook internally earlier than making. As stated within the reliable GraphQL internet site: "GraphQL is a question language for APIs and a runtime for pleasant those queries together with your existing records. GraphQL provides a whole and understandable description of the information in your API, gives clients the electricity to ask for exactly what they want and not anything greater, makes it less complicated to adapt APIs over the years, and permits effective developer tools.", GraphQL has a single endpoint, and returns only the asked fields, no extra, no much less. This way, we will get many sources from a unmarried request, which enables in attaining better performance whilst saving information. Figure five shows an example of a request using GraphQL

This challenge follows a model-view-controller (MVC) architecture, with the

view being generated by vuejs, and the model/controller by means of Nodejs. However, due to the fact GraphQL wishes best one endpoint, we will need simplest one controller which handles all requests.

The controller calls a GraphQL schema, which contains numerous type definitions and resolvers. Type definition represents the shape of the software via defining item sorts and their attributes. Resolvers deals with the inner common sense of the application to retrieve and modify information. There are two styles of resolvers:

- We have used Queries: for information outcome.
- We have used Mutations: for information visualization.

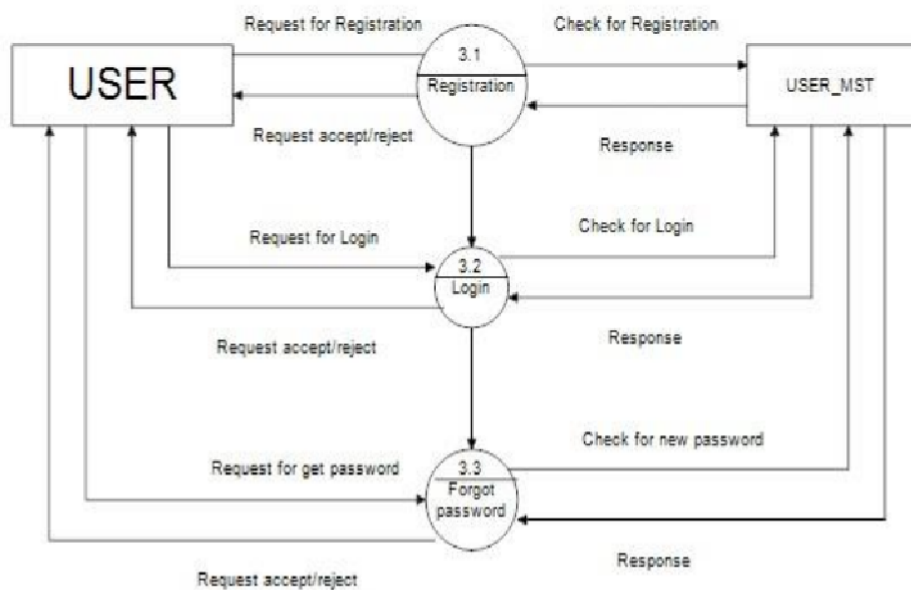
D. Database

For the Database purpose, we used MongoDB, that is a non-relational gadget DBMS. As we know MongoDB is a NoSQL data storing technique, it provides extra access to store and retrieve statistics via abling several statistics kinds. Users are able to keep various datatypes like numbers and dates like other databases along with MySQL, plus arrays and objects. Hence, fetching information will become easy, it also decreases the chance of using complicated commands. MongoDB has the sotorage of , which is the equal of a desk in a relational database. Every series contains files, which can be of types BSON, a binary illustration of JSON (javascript object notation). These documents keep the information, in addition to a row in a relational database. However, those collections do now not put in force a schema, which gives a first rate flexibility of storing facts, but with the drawback of dealing with continual statistics storage, which might also result in destiny bugs and mistakes. This is one of the reasons I selected mongoose as an ORM, it enforces the usage of a schema, and makes the

communicate with storage is less difficult.

Due to these speciality of database I decided to use MongoDB is its amazing aid even in general operations in net programs. In the case of Foodcourt, there's a search bar to search for eating places, the result have to be looked after by means of relevance. MongoDB offers the opportunity for seek queries with the aid of indexing the attributes to go looking. For the search operation, MongoDB gives a relevance rating for every report, relying on how well it fits the fubctions , then the result may be taken care of from the very best.

Data Flow Diagram



(Fig. 13) Data Flow Diagram

This is how we can include the javascript in our html file.

```
<body>
  <div class="container">
    <div class="row">
      <p>
        This is a row in this container
      </p>
    </div>
  </div>
  <script>
    //Write your js here
    console.log('Hello world');
  </script>
</body>
</html>
```

(Fig.14)Simple js code

This will display hello world in the console section of our browser



(Fig.15) output of above js


```

</div>
<div class="client-item">
  
</div>
<div class="client-item">
  
</div>
</div>
</section>
<section id="contact">
  <h1 class="h-primary center">Contact Us</h1>
  <div id="contact-box">
    <form action="">
      <div class="form-group">
        <label for="name">Name: </label>
        <input type="text" name="name" id="name" placeholder="Enter your name">
      </div>
      <div class="form-group">
        <label for="email">Email: </label>
        <input type="email" name="name" id="email" placeholder="Enter your email">
      </div>
      <div class="form-group">
        <label for="phone">Phone Number: </label>
        <input type="phone" name="name" id="phone" placeholder="Enter your phone">
      </div>
      <div class="form-group">
        <label for="message">Message: </label>
        <textarea name="message" id="message" cols="30" rows="10"></textarea>
      </div>
    </form>
  </div>
</section>
<footer>
  <div class="center">
    Copyright &copy; www.MyMeal.com. All rights reserved!
  </div>

```

(Wgl7)

Chapter 4 | Performance Analysis

I have created style.css file for the styling of my website.

For the navigation bar of our home section.

```
/* Navigation Bar */
#navbar{
  display: flex;
  align-items: center;
  position: sticky;
  top: 0px;
}

#navbar::before{
  content: "";
  background-color: black;
  position: absolute;
  top: 0px;
  left: 0px;
  height: 100%;
  width: 100%;
  z-index: -1;
  opacity: 0.7;
}

/* Navigation Bar: Logo and Image */
#logo{
  margin: 10px 34px;
}

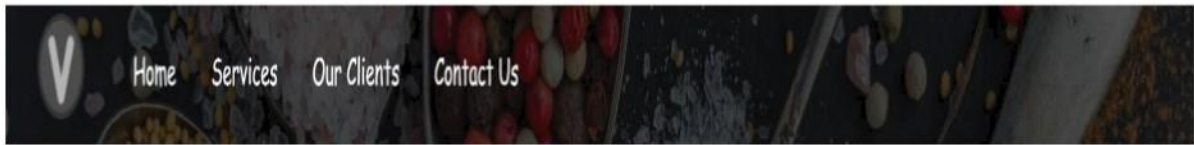
#logo img{
  height: 59px;
  margin: 3px 6px;
}

/* Navigation Bar: List Styling */
#navbar ul{
  display: flex;
```

(Fig18)

This is how our navigation bar looks after styling using CSS.

(Fig.19)



For home section

```
/* Home Section */
#home{
  display: flex;
  flex-direction: column;
  padding: 3px 200px;
  height: 550px;
  justify-content: center;
  align-items: center;
}

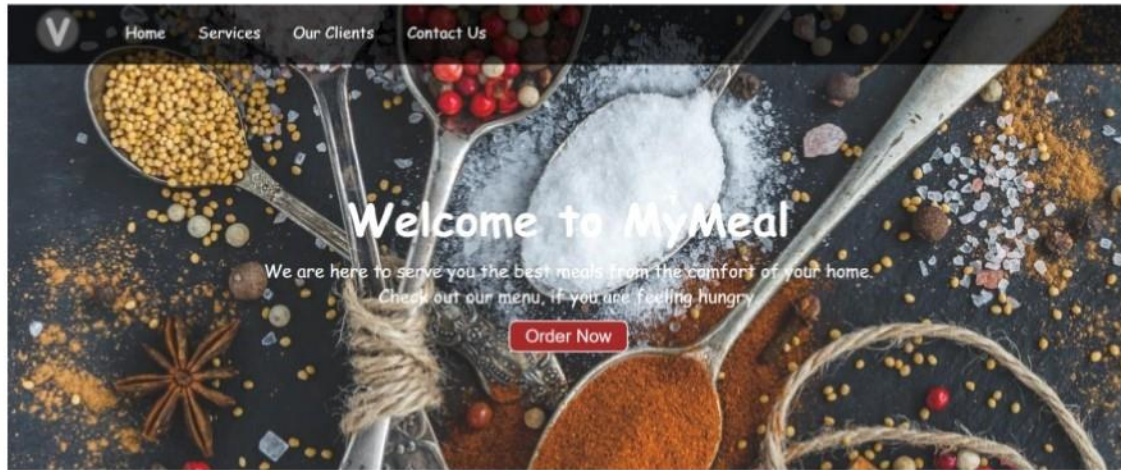
#home::before{
  content: "";
  position: absolute;
  background: url('/mylogo/images/background.jpg') no-repeat center center/cover;
  height: 642px;
  top: 0px;
  left: 0px;
  width: 100%;
  z-index: -1;
  opacity: 0.87;
}

#home h1{
  color: white;
  text-align: center;
  font-family: 'Baloo Bhai', cursive;
}

#home p{
  color: white;
  text-align: center;
  font-size: 1.5rem;
  font-family: 'Baloo Bhai', cursive;
}
```

This is how home section looks after CSS styling.

(Fig.20)



(Fig.2 1)

Css styling for services section-

```

/* Services Section */
#services{
  margin: 34px;
  display: flex;
}
#services .box{
  border: 2px solid #brown;
  padding: 34px;
  margin: 2px 55px;
  border-radius: 28px;
  background: #f2f2f2;
  margin-bottom: 20px;
}

#services .box img{
  height: 160px;
  margin: auto;
  display: block;
}

#services .box p{
  font-family: 'Baloo Bhai', cursive;
}

```

(Fig.2 2)



(Fig.23)

Css styling for client section-

```
/* Clients Section */
#client-section{
  position: relative;
}

#client-section::before{
  content: "";
  position: absolute;
  background: url('/mylogo/images/bg2.jpg') no-repeat center center/cover;;
  width: 100%;
  height: 100%;
  z-index: -1;
  opacity: 0.4;
}

#clients{
  display: flex;
  justify-content: center;
  align-items: center;
}

.client-item{
  padding: 34px;
}

#clients img{
  height: 124px;
}
```

(Fig.24)



(Fig.2 5)

CSS styling for contact section

(fig.26)

```
/* Contact Section */
#contact{
  position: relative;
}
#contact::before{
  content: "";
  position: absolute;
  width: 100%;
  height: 100%;
  z-index: -1;
  opacity: 0.7;
  background: url('/mylogo/images/contact.jpg') no-repeat center center/cover;
}
#contact-box{
  display: flex;
  justify-content: center;
  align-items: center;
  padding-bottom: 34px;
}
#contact-box input,
#contact-box textarea{
  width: 100%;
  padding: 0.5rem;
  border-radius: 9px;
  font-size: 1.1rem;
}
#contact-box form{
  width: 40%;
}
#contact-box label{
  font-size: 1.3rem;
  font-family: 'Baloo Bhai', cursive;
}
```

Contact Us

Name:

Email:

Phone Number:

Message:



(Fig.2 7)

Future Aspects:

We have opportunities for the enhancement of my project in further paintings. Example, we will put up extra capabilities at our manager's section on the way to assist in higher knowledge consumers, and economic outcomes. Apart from this development could indicate fresh eating places for customer by using his/her past preference, the way of the use of device learning algorithms. For now, the consumer pays only with the aid of coins while the customer's requirement is fulfilled; but, it might be preferable incase consumer may want to pay by credit score or debit card.

Chapter *| * , yIclusion

MyMeal.Com turned into an thrilling mission , I have worked on many wonderful techniques to get the desired output. I used javascript and Node Js turned into very thrilling, a good knowledge in programming made a bonus point, and knowledge of new features. With the help of this project I learned approximately most current/recent tools , technologies and frameworks which includes in-browser javascript, Nodejs, MongoD B etc .

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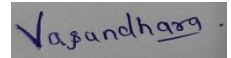
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