

ONLINE FOOD DELIVERY WEBSITE

*A Project documentation in partial fulfilment of the requirements for the
Certification programme of*

HERO VIREO TRAINING PROGRAMME

IN

FULL STACK DEVELOPMENT

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ABSTRACT

The Online Food Ordering System described in this document has been designed to fill a specific niche in the market by providing small restaurants with the ability to offer their customers an online ordering option without having to invest large amounts of time and money in having custom software designed specifically for them. The system, which is highly customizable, allows the restaurant employees to easily manage the site content, most importantly the menu, themselves through a very intuitive graphical interface.

The website, which is the only component seen by the restaurant customers, is then built dynamically based on the current state of the system, so any changes made are reflected in real time. Visitors to the site, once registered, are then able to easily navigate this menu, add food items to their order, and specify delivery options with only a few clicks, greatly simplifying the ordering process. Back in the restaurant, placed orders are promptly retrieved and displayed in an easily readable format for efficient processing.

The purpose of this document is to provide in-depth descriptions of design and implementation details of the system, as well as descriptions of all available functionality and plans for evolution have been included for all three components to give the reader a clear idea of intended typical use cases for the system.

INDEX

CHAPTER NAME	PAGE-NO
(1) INTRODUCTION	4 - 5
(2) FUNCTIONAL REQUIREMENTS	6 – 9
FUNCTIONAL REQUIREMENT SUBTOPICS	
(i) CUSTOMER FUNCTIONAL REQUIREMENTS.....	6– 7
(ii) ADMIN FUNCTIONAL REQUIREMENTS.....	7– 8
(iii) RESTAURANT MANAGER FUNCTIONAL REQUIREMENTS	8 - 9
(3) FEATURES OF THE SYSTEM.....	9
(4) ADVANTAGES.....	10
(5) SOFTWARE TOOLS.....	10
(6) DEPLOYMENT.....	10
(7) BASIC REPRESENTATION OF THE SYSTEM.....	10
(8) BASIC LAYOUT.....	11 – 14
(9) CONCLUSION.....	14

INTRODUCTION

In today's age of fast food and take-out, many restaurants have chosen to focus on quick preparation and speedy delivery of orders rather than offering a rich dining experience. Until very recently, all of these delivery orders were placed over the phone, but there are many disadvantages to this system. First, the customer must have a physical copy of the restaurant's menu to look at while placing their order and this menu must be up to date. While this expectation is not unreasonable, it is certainly inconvenient.

Second, the orders are placed using strictly oral communication, which makes it far more difficult for the customer to receive immediate feedback on the order they have placed. This often leads to confusion and incorrect orders. The current system is also inconvenient for the restaurant itself, as they must either have a dedicated staff member to answer the phone and take orders, or some employees must perform double-duty, distracting them from their regular tasks.

What we propose is an online food delivery system. The main advantage of this system is that it greatly simplifies the ordering process for both the customer and the restaurant. When the customer visits the ordering webpage, they are presented with an interactive and up-to-date menu, complete with all available options and dynamically adjusting prices based on the selected options. After making a selection, the item is then added to their order, which the customer can review the details of at any time before checking out. This provides instant visual

confirmation of what was selected and ensures that items in the order are, in fact, what was intended.

The system also greatly lightens the load on the restaurant's end, as the entire process of taking orders is automated. Once an order is placed on the webpage, it is placed into the database and then retrieved, in pretty much real-time, by a desktop application on the restaurant's end. Within this application, all items in the order are displayed, along with their corresponding options and delivery details, in a concise and easy to read manner. This allows restaurant employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion.

While there are already a few systems like this in existence, all those I have encountered have been designed specifically for one restaurant, and thus cater only to their unique needs. Perhaps the greatest advantage of my system is its flexibility. The web order forms are built dynamically from the database, which can be managed using a graphic user interface. This allows the restaurant employee to not only set up and customize the system on their own, but also allows them to make changes to menu in real time. For this reason, the exact same system can be used by numerous businesses with absolutely no modification to the code itself, which greatly increases its usefulness.

FUNCTIONAL REQUIREMENTS

The structure of the system can be divided into three main logical components.

(1) CUSTOMER

(2) ADMIN

(3) RESTAURANT MANAGER

(1) **CUSTOMER ::** Customer is the one who will access the website to buy the food item available at the Restaurants.

- Registration/Sign up
- Login
- Navigation Menu
- Restaurant details
- Restaurant Menu (Food Menu)
- Filter restaurants by cuisine's
- Current offers
- Address Book
- Rewards and Coupons

IN DETAILED EXPLANATION OF EACH REQUIREMENT::

Registration/Sign up:: Here a customer can register /sign up by creating an account for him to access the services of the website.

Login:: After successful registration a user can login through login credentials and explore the website.

Navigation Menu ::This helps the user to see his profile make changes to his profile and contains several accepts like - Cart, Orders, Settings, Favorite Items, Resent purchase history.

Restaurant details:: Contains all the detailed info of the restaurant.

Restaurant Menu:: Contains all the detailed info of the food items available at the restaurant.

Filter restaurants by cuisine's

Filter restaurants by cuisine's:: This is similar to a search engine it will filter the food items by the category they belongs to or by the restaurant or by the rating of food items.

Current offer 's:: This shows the current offers on the food items.

Address Book::This attribute will take the information of the address where the food has to be delivered.

Rewards and Coupons::Here it has the information about the rewards and coupons available.

(2) ADMIN :: Admin is the one who manages the hole website, He has the detailed information of each restaurant and customer order, most selling food items, ratings of the restaurants.

- Admin log-in
- Restaurant Management
- Website Management
- Order Management
- Payment Management
- Customer Data Management

IN DETAILED EXPLANATION OF EACH REQUIREMENT::

Admin log-in:: The admin will login into the page where he has the information and data of all the things go on in the website.

Restaurant Management:: Here the admin will manage the data related to restaurants he can add(on board), delete, update the information of the restaurant.

Website Management::The admin will manage the complete website here he can make several changes in the inter face and data of the website.

Order Management:: The admin will have the complete information of the order like order tracking , total number of orders placed with him here and he can manage the site accordingly.

Payment Management:: The admin will have the complete information of the payments like order payments history total number of payments Payment status of an order.

Customer Data Management:: The admin will manage the complete customer data here.

(3) RESTAURANT MANAGER:: The restaurant manager is the one who provides the food items to the customer through the web site here he can manage the food items ,receive orders, check payment status and makes the Checkout process.

- Registration/Sign up
- Sign-in
- Place new food items
- Get customers order details
- payment status
- Checkout process
- Order status and Tracking
- Help and support

IN DETAILED EXPLANATION OF EACH REQUIREMENT::

Registration/Sign up:: Here a Restaurant can register /sign up by creating an account for him by providing all the information of the restaurant to the admin and get an business account to access the services of the website.

Sign-in::After restaurant manager gets his business account now he will sign in to his account and provide his services to customers.

Place new food items::The restaurant manager has the complete choice to add the food items he serves and update the price of the food items periodically whenever he wants to change according to his profits and sales.

Get customers order details::Whenever a customer places an order the restaurant manager can get the details of the order and confirm the order

payment status::Here the restaurant manager will know information of the payments weather it is a paid or a crash on delivery type. If it is paid he can know the payment gateway came in to play whether it is UPI payment, net banking, credit /debit card payment.

Checkout process:: After knowing the payment status the checkout process will be done accordingly.

Order status and Tracking::The order status and tracking would be known here , whether the order is received or not , if the order is cash on delivery type do the payment received after the order is received by the customer.

Help and support:: If there is any technical issue in this he can contact to the admin by this section.

FEATURES OF THE SYSTEM::

- Menu price update
- Menu items alteration
- Order tracking
- Payment tracking

ADVANTAGES::

- Easy food delivery.
- No need of much physical effort to get the food.
- Time and energy saving for customers.
- Acceptance of any paid method.

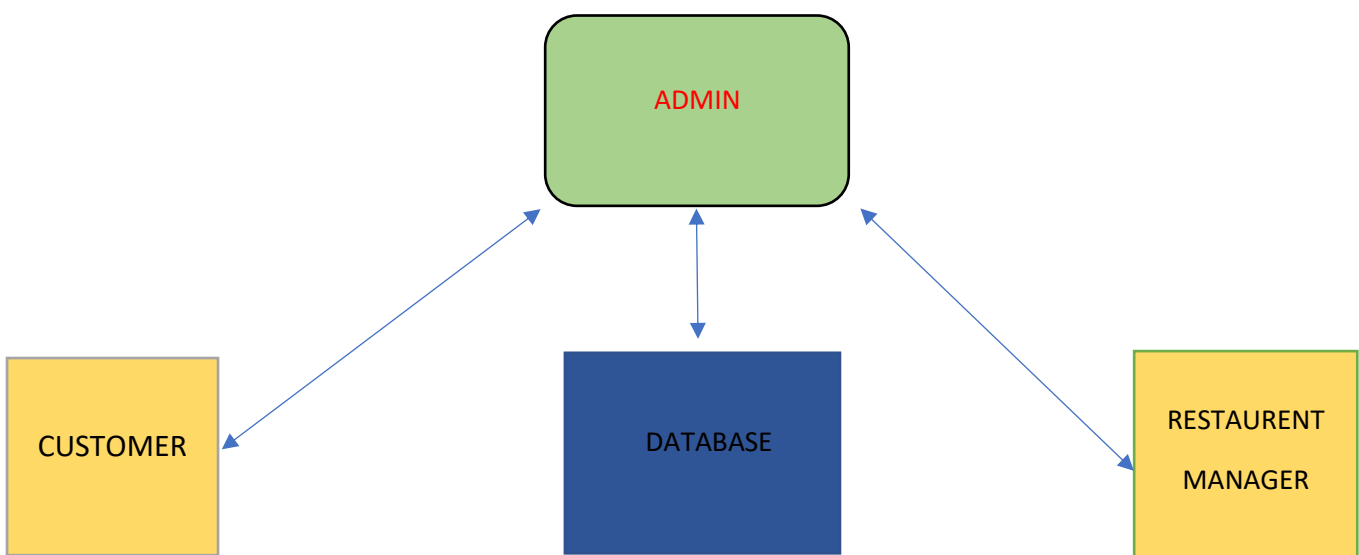
SOFTWARE TOOLS::

- FRONT END::- HTML,CSS,BOOTSTRAP.
 - For making and styling of web pages.
- BACK END::- mongo DB, node JS , node express, JSON.
 - To connect the data in the servers and to make some actions on the web pages

DEPLOYMENT::

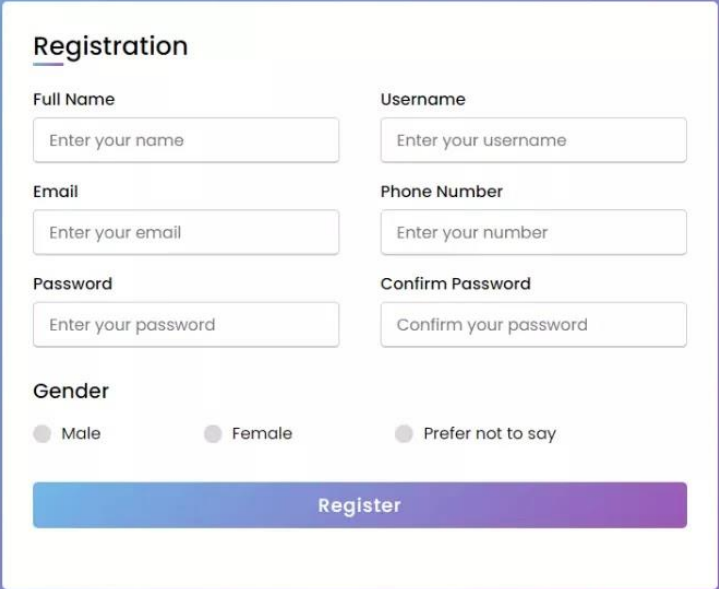
- OPERATING SYSTEM::- windows
 - It is used for the deployment of the project .

BASIC REPRESENTATION OF THE SYSTEM::



BASIC LAY OUTS::

CUSTOMER REGISTRATION FORM::



The registration form is titled "Registration" and is set against a blue-to-purple gradient background. It contains the following fields and options:

- Full Name:** A text input field with the placeholder "Enter your name".
- Username:** A text input field with the placeholder "Enter your username".
- Email:** A text input field with the placeholder "Enter your email".
- Phone Number:** A text input field with the placeholder "Enter your number".
- Password:** A text input field with the placeholder "Enter your password".
- Confirm Password:** A text input field with the placeholder "Confirm your password".
- Gender:** Three radio button options: "Male", "Female", and "Prefer not to say".
- Register:** A large, wide button with a blue-to-purple gradient.

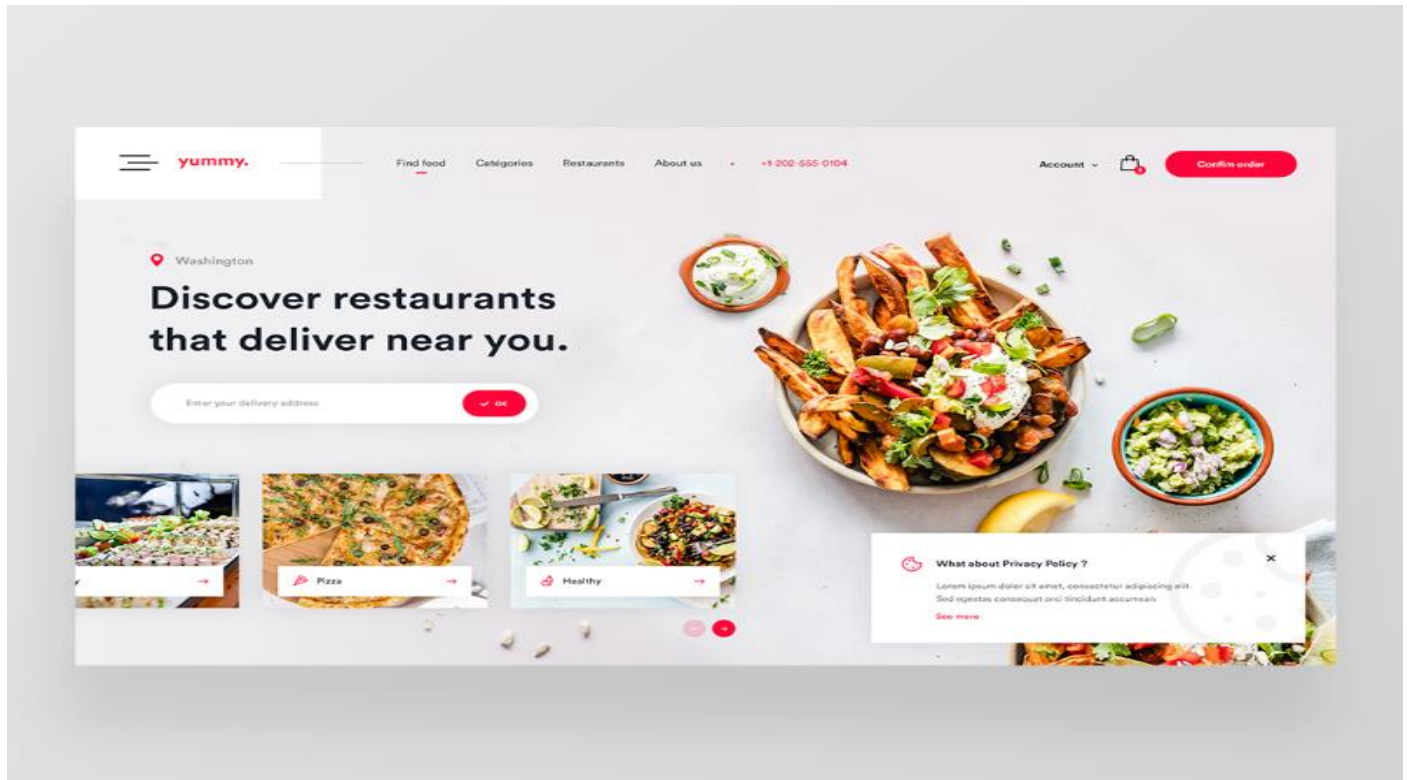
CUSTOMER LOGIN FORM::



The login form is centered on a blue background with a low-poly geometric pattern. It features the following elements:

- Icon:** A white icon of three people at the top.
- Username Field:** A text input field with a user icon and the placeholder "Username".
- Password Field:** A text input field with a lock icon and the placeholder "Password".
- Links:** Two small links below the password field: "Forgot your username" and "Forgot your password".
- LOGIN:** A blue button with white text.

CUSTOMER WEBSITE INTERFACE ::



RESTAURANT MANAGER REGISTRATION INTERFACE::

Online Ordering Form

Restaurant Name *	<input type="text"/>
Restaurant Description	<input type="text"/>
Address *	<input type="text"/> <small>Street Address</small>
	<input type="text"/> <small>Street Address Line 2</small>
	<input type="text"/> <small>City</small>
	<input type="text"/> <small>State / Province</small>
	<input type="text"/> <small>Postal / Zip Code</small>
	<input type="text"/> <small>Country</small>
Website	<input type="text"/>
Sales Tax *	<input type="checkbox"/> <small>The sales tax to charge for each order.</small>
Takeout *	<input checked="" type="radio"/> Yes <input type="radio"/> No
Delivery *	<input checked="" type="radio"/> Yes <input type="radio"/> No
Delivery Fee	<input type="checkbox"/> <small>How much do you charge for delivery? Leave blank if delivery is free.</small>

RESTAURANT MANAGER LOGIN::



RESTAURANT MANAGER WEBSITE INTERFACE::

WooCommerce / Products / Add New

Inbox Orders Stock Reviews Notices

Product data — Variable product

Inventory Shipping Linked Products Attributes Variations Advanced Get more options

Default Form Values: No default Burger Base...

Add variation Go 3 variations (Expand / Close)

#489 Veggie

#488 Chicken

#487 Beef

SKU

☒ Enabled: ☐ Downloadable: ☐ Virtual: ☐ Manage stock?

Regular price (\$) 12.99 Sale price (\$) [Schedule](#)

Stock status In stock

+ Add new category

— Parent category —

Add new category

Product tags

Add

Separate tags with commas

[Choose from the most used tags](#)

Astra Settings

Publish

Product gallery

[Add product gallery images](#)

ADMIN LOGIN ::



ADMIN WEBSITE INTERFACE::

YourBrand Delivery Orders Dispatch Dispatcher Settings Stores Sign out

Super Admin
Online

MAIN NAVIGATION

- Onboarding
- Dashboard**
- Orders **296**
- Customers
- Configure Mobile Apps
- Custom Domain
- Marketplace
- Surcharge Settings
- Global Settings
- Billing
- Promotions
- Store Management
- Reporting

Dashboard Home > Dashboard

Sales €86,802.60

Delivered 383

No Orders 1067

No Customers 502

All Orders

1067
New Orders

€86,802.60
Orders Price

User Details

502
Total Users

3
Deactive Users

499
Active Users

Driver Details

293
Total Drivers

129
Deactive Drivers

164
Active Drivers

Store Details

169
Total Stores

111
Deactive Stores

58
Active Stores

CONCLUSION::

BY THIS WE BUILD A WEBSITE WHICH FORM A BRIDGE BETWEEN RESTAURANTS AND CUSTOMERS.

THANK YOU