<p align="center">Major Project
Online Food Delivery Website
Front-End Development</p>

1) index.php

→First we will work on the index.php file.

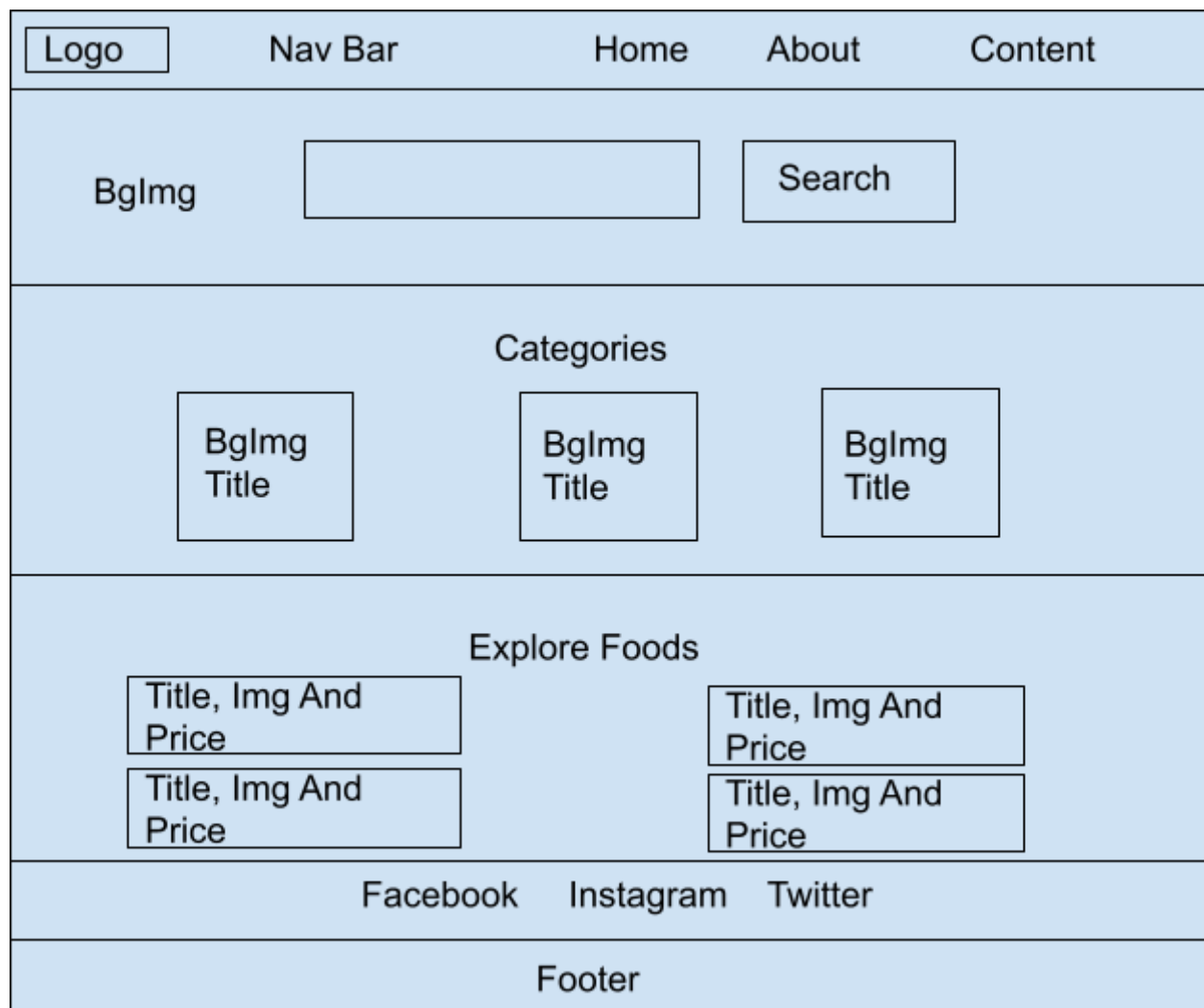→I have divided the project into four stages:

1)Idea Mapping

2)Structuring

3)Styling

4)Making it Mobile Ready

1) Idea Mapping

Here is my website's basic layout, and I will design the website as per this layout.

2) Structuring

In this stage, I have divided the website into Sections and given each Section a Class i.e. based on the content it will have for example for Nav Bar Section will have a class as " NavBar " and so on.....
Then I have taken a div inside the section with the class name " container ".
Then with the H1 tag, I have given the Section name based on its requirement.
Then I Linked the CSS File with the HTML File.

Then I provided a basic Style to my Website such as Padding, Margin, etc. After that, we will Structure our Website with HTML Elements.

1) Nav Bar Section:
→In div I have taken a class with the name " logo " in which I will insert my Logo Image.
→I have taken the second div with Class " menu " and in that, I have used <ul> tag and with the help of <li> tag, I have specified the elements of Unordered List that are the elements of Nav Bar.

2) Food Search Section:
→In that I have created a Form wherein we will have a Search Box and Button to Search.

3) Food Categories Section:
→In this section I have given a Heading with an H2 tag and I have used 3 div tags with the class name " box-3 " and specified its name as Box-01, Box-02, Box-03.

4) Food Menu Section:
→In this section I have given a Heading with an H2 tag and I have used 4 div tags with the class name " foodMenu " and specified its name as Food Menu-01, Food Menu-02, and so on........

5) Social Media Section:
→In this I have used <ul> Tag and with the help of <li> tag, I have specified the elements of Unordered List inside the anchor tag which are Facebook, Instagram, and Twitter.

6) Footer Section:
→In the Footer Section I have used a <p> Tag to specify the footer as " All Rights Reserved. Designed By Shreya Barad." and placed the name in the anchor tag.

3) Styling

Then we will Style our HTML Elements:

1) Nav Bar Section:

a)Logo:

→I have inserted a logo for the website with the help of <img> Tag and provided styling to it.

→I have given a class to <img> tag so that I can style it.

Here for <img> tag class, I have given width as 100% so that the 100% img gets fixed in the area specified in the Logo class i.e. width= 10%.

b) Menu for Nav Bar:

→I have used the class " menu " of the Nav Bar Section and aligned it to right.

→Then I have taken the List Style Type as none.

→And placed the list item in a Horizontal Line with the help of Display Property as inline and provided padding of 1%.

→Created one div inside div with the class name " container " which has the name " clearfix " and then styled this class with the property " clear " as

" both " and " float " as " none "

→And given black color to the Anchor tag with Text Decoration none.

→And used Hover Property and provided the color.

2) Food Search Section:

→ First, provided the background image for the Food Search Section using CSS.

→I have created one more class for the Search Food Section and placed the class name in the same class attribute and provided it with the

name alignCenter and used the property " text-align " as " center ".

→Then I targeted the FoodSearch Class's input, with type search. Here I have provided Width, Padding, and Font Size for the particular input type.

→Then given a class to Search Button as searchBtn and provided padding of 1% added font size as 1rem i.e. 16px.

→I have created one more class for the searchBtn and placed the class name in the same class attribute and provided it with the name searchBtnColor and used some properties like BackgroundColor, Font-Weight, Color.

→And used the hover property for the class searchBtnColor and provided the Background Color.

→And used cursor property and made it a Pointer so that whenever the cursor goes near the Search Button it will become Pointer.

3) Food Categories Section:

→Here I have already created a class as alignCenter and used Align Text property to center.

→ Then targeted the class FoodCategories and in that <h2> tag in which we have applied certain properties Font Size, Color, and Font Weight.

→Then in class FoodCategories we have set padding as 4% from the Top and Bottom and 0 from the Left and Right.

→Then I targeted the class box-3 and provided certain properties such as Border, Float as left, Width, and Margin.

→Created one div inside div with the class name " container " which has the name " clearfix " and then styled this class with the property " clear " as
 " both " and " float " as " none ".

→Then we will add Images in the classes named box-3 through HTML.

→Here for the Images added above I am using the defined class " ImgResponsiveFoodCategories " in <img> tag so that the 100% image gets fixed in the specified width.

→Then I created one more class " floatContainer " in the class " box-3 " and added the position as relative.

→Then created a class in <h3> tag named " floatText " and positioned it as absolute and added certain properties as bottom and left.

→ Then I also added one more class in <h3> tag as " floatTextWhite " and provided certain properties such as color, font size, and font - weight.

→In the class " ImgResponsive " I have added one more class as imgCurve which has Border Radius as the property.

4) Food Menu Section:

→We will first apply the class " alignCenter " to the <h2> tag of the Food Menu Section.

→Then we will apply styling to the class " foodMenuBox " with some properties such as border, width, margin, padding, background color, and float as left.

→Then I targeted the " FoodMenu " class and provided it with some properties such as Background Color and Padding.

→Then in the div with class name " foodMenuBox " I have created two div with class names " foodMenuBoxImg " and " foodMenuBoxDescription ".

→In div with class name " foodMenuBoxImg " I have provided an Image with the help of <img> tag.

→In div with class name " foodMenuBoxDescription " I have provided a heading with <h4> tag and used <p> tag for Price and Description.

→Then I used Anchor Tag to create a Button for Order Now with the class name orderButton and I have provided another class in the same class attribute with the name orderButtonColor.

Here I have used orderButtonColor class in CSS and provided it with properties such as background color, font weight, and color.

And I have Hover the class name orderButtonColor and provided the background color and color so that whenever someone takes the cursor near the Order Now Button then it will change its properties as specified.

→Then I provided the image for the " foodMenuBoxImg " class.

Here I have styled the above class with width property.

And I have also added a class " ImgResponsive " and " imgCurve ".

→Then I created a div inside a pre-defined div class with the name " foodMenuBox " and the created class is " clearfix " which we have already defined.

→Then I specified float property as left to class " foodMenuBoxImg ".

→Then let's work with foodMenuBoxDescription class I have provided certain properties such as width, float as left, and margin-left.

And a class inside foodMenuBoxDescription as foodPrice and provided certain properties such as font size, font weight, and margin.

And a class named foodDescription is inside the class foodMenuBoxDescription wherein I have provided it with the property font size and font weight.

I have styled the <h4> tag of class foodMenuBoxDescription with the property of font size and font weight

→ I have increased the padding for the button.

→This same process I have repeated for all the FoodMenu classes by providing all the required data.

   5) Social Media Section:

→ First apply the alignCenter class so that items are aligned to the center.

→Then we will apply class SocialMedia's ul tag as list style type: none.

→Then we will target Social Media's <ul> tag's <li> tag and make the display inline and padding as 1%.

→Then we will apply images in place of text for the Social Media for that I will use Bootstrap Icons.

    6) <u>Footer Section:</u>

→ First apply the alignCenter class so that <p> tag's content gets aligned to the center.

→This is all Set! I have made the required changes to my website to make it look good.

4) <u>Making it Mobile Ready</u>

→This is the Last Stage of website designing.

→For making the website responsive we will use Media Query.

1)First I have targeted the devices with a Max-Width of 768px.

    1) <u>NavBar Section:</u>

→Changed the Logo Size with the help of width, float, and margin properties.

→Then I targeted the class menu's ul and aligned it to the center.

    2) <u>Food Search Section:</u>

→Then I targeted the class FoodSearch's input with type search for which I have provided width, padding, and margin-bottom properties.

→Then I focused on class searchBtn wherein I provided its width and padding.

    3) <u>Food Categories Section:</u>

→Then started working on classes with name box-3 and provided some properties to it such as width and margin to make it look good on devices.

→ Then added padding to the Food Categories section.

→Added margin-bottom to <h2> tag Selector.

    4)<u>Food Menu Section:</u>

→Then targeted the Food Menu section and provided it padding.

→Then provided width, padding, and margin-bottom properties to the foodMenuBox class.

    5) <u>Social Media Section:</u>

→Then targeted the Social Media section and provided it padding(top-bottom and left-right).

    6) <u>Footer Section:</u>

→Changed Font Size.

2)Next I have targeted the devices with a Max-Width of 912px and a Min-Width of 768px.

      1)Food Menu Section:

→Then provided width, padding, and margin-bottom properties to the foodMenuBox class.

      2) Footer Section:

→Changed Font Size.

2)Categories.php

Here I have created Categories.html and Categories.css files wherein I have provided the layout for the page and designed it.

I have copied some code from index.html of the Food Categories Section for the Categories page.

The CSS code is also the same as the style.css file of the Food Categories Section.

3) Foods.php

Here I have created Foods.html and Foods.css files wherein I have provided the layout for the page and designed it.

I have copied some code from index.html of the Food Menu Section for the Foods page.

The CSS code is also the same as the style.css file of the Food Menu Section.

4) OrderNow.php

Here I have created OrderNow.html and OrderNow.css files wherein I have provided the layout for the page and designed it.

I have copied some code from index.html of the Social Media and Footer Section for the OrderNow.html page.

The CSS code is also the same as the style.css file of the Social Media and Footer Section for the OrderNow.css page.

Here we are going to Create a Form for ordering the food wherein the customer will fill in all the details.

Creating the Form for OrderNow.html File:

Here I have created a simple form wherein I have divided the form into two parts first the data regarding the selected food and second the Delivery Location.

Here I have created a simple HTML Form where I have used CSS to Style it.

BackEnd Development

1)Creating Database and Tables:

Firstly I have created a Database and in that I have created 4 tables.
The basic design of our Database is:

Database For Online Food Delivery Website

Table_Admin

	Id	int(10)
Primary	Id	int(10)
	FullName	varchar(100)
	UserName	varchar(100)
	Password	Varchar(255)

Table_Category

	Id	int(10)
Primary	Id	int(10)
	Title	varchar(100)
	ImageName	varchar(255)
	Featured	varchar(10)
	Active	varchar(10)

Table_Order

	Id	int(10)
Primary	Id	int(10)
	Food	varchar(150)
	Price	decimal(10,2)
	Quantity	int(10)
	Total	decimal(10,2)
	OrderDate	datetime
	Status	varchar(50)
	CustomerName	varchar(150)
	CustomerContact	varchar(20)
	CustomerEmail	varchar(150)
	CustomerAddress	varchar(255)

Table_Food

	Id	int(10)
Primary	Id	int(10)
	Title	varchar(150)
	Description	varchar(225)
	Price	decimal(10,2)
	ImageName	varchar(255)
Foreign	CategoryId	int(10)
	Featured	varchar(10)
	Active	varchar(10)

Here I have designed four tables wherein I have defined the number of rows with its name and data type.

Note:
→Here the Featured has value as Yes or No if the value is Yes then the particular Item will be displayed on Home Page's Category Section.
But if the Featured is No then it will not displayed on the Home Page but displayed on Category Page.
→Here Active is Yes then it will be shown in our Website in the Home Pages's Category Section and if Active is No then it will not be shown in our website.

2)Creating Folders, Files & Designing Admin Panel :

→After Creating the Database and Tables we will design our Admin Panel.

→For Designing the Admin Panel firstly I have created the a Folder with the name "Backend".

In that folder I have created another folder with the name "HomePage" wherein i have created the file with name "index.php".

And another file with the name "index.css" wherein we will specify our CSS in it.

→Then I have started working on index.php file wherein i have created a HMTL syntax then I have divided the file into three stages that are "Menu Section", "Main Section" and "Footer Section".And using <div> tag I have given class to these three sections with the name "Menu", "MainContent","Footer".

→Then Linked the CSS File to index.php file.

Then Applied some CSS to the page and created a Wrapper class wherein I have provided border of black 1px to it, Margin, Padding, and Width.

→Then used these Wrapper class for all the section.

→Then I have designed footer section wherein I have taken <p> tag and written "All Rights Reserved. Designed by Shreya Vinod Barad.".

And created a class with the name "AlignCenter" and applied it inside <p> tag for the footer.

→Then applied some CSS for Footer.

→Then I have started designing menu section. Then inside wrapper I have created a unordered list which have certain items inside it such as Home, Admin, Category, Food and Order.

→To make the menu horizontal I have applied some CSS such as I have used some Properties that are list- style- type as none, display as inline and some padding,

As this items are inside the anchor tag I have used some CSS to beautify the anchor tag.

            Then I have removed border of the section to make i look good.

→I starterd designing MainContent section and given a heading to it i.e. Dadhboard.

             Then I have used <div> tag for which I have given a class name "Column4" and applied some CSS to it such as width, background-color, margin, and padding to create four boxes and used "AlignCenter" class to align the box text to center.

Then I have copied the code of the above code to create three more boxes and applied CSS as float equals to left to make the boxes align Horixontally.

And created a "clearFix" and added it after the last <div> tag and CSS used for clearfix is float as none and clear as both.

→Then I have created a folder named AminPage and created a file named AdminPage/php and removed the main content data, and added the required content to the MainContent Page.

Footer and Menu Section will be as it is.

Then changed the heading of the page as "Admin" then I have decided to break repeated parts into reusable sections .

For that I have created a "Section" named folder.

Then I have created two files name FooterSection and MenuSection and added the code that defines both the section which are reusable so that when needed we can include the file in our page.

Then I have created different folders and files with the name CategoryPage, FoodPage, OrderPage and CategoryPage.php, FoodPage.php, OrderPage.php respectively.

→In that files I have included Footer and MenuSection files as well and given respective headings to the files as, Category, Food, Order..

→Then I have started working on AdminPage.php and Created a table with respective column names as Sr.No. , FullName, UserName, and Actions.

For the above table I have applied some CSS to make it look good such as width as 100% and border-bottom as 1px solid black.

In Actions part of the table we will have 2 buttons to Update Admin and Delete Admin.

→I have then created three buttons with class name UpdateAdminButton, AddAdminButton, and DeleteAdminButton.

Here AddAdminButton is After the heading. Then I have applied the required CSS to make it look good.

→Then I have created AddAdminPage.php and and added the link of it to the AdminPage.php where the AddAdmin Button is there.

Then Included two files that are MenuSection.php and FooterSection.php to the page of AddAdmin.php.

Then I have created a FORM with AddAdmin Button in PHP and Provided the required CSS.

→Then created the Database Connectivity so the values from Form can be Processed and Save in the Database.

To process the values from form I have firstly written a code to get the data from form using POST method and then written SQL Query to save the data in database. Then I have used md5 for Password Encryption.

→Then I have executed the query and saved in the database.

→Then I have created the Database Connection with the desired Credential.

→Then I have written a sort of code to check whether the query is executed and if executed the data is inserted or not and if inserted then I have displayed the appropriate message.

For displaying the Message I have created a Session Variable and after the query is executed then the user will be redirected to the desired page on the basis of the Success or Failure of the query with the required message.

→Then I have set the Session Variable in the page where we want the message to be displayed i.e. the redirected page.

→Now I started the work to display all the Admins in the Table from the Database. For displaying the data from the database to the table I have first written the query, then written the code to execute the query and checked whether the query is executed or not.

And to get data from the database I have used While Loop and the While Loop will run until there is data in the database.

Then I have get individual data and then displayed the data from the database to the table.

For Sr.No. we require the incremented values, so for that I have created a variable named "start" whose value is 1 and then I have echo the value with incrementation in the Sr.No.

→Then I have started work on DeleteAdmin Button. For that I have created a File named DeleteAdminPage.php.

The Steps for deleting the Admin from the table the steps are:

1)Add the link in the in Anchor tag of Button in AdminPage.php.

2)Get the ID of Admin to be Deleted.

3)Create SQL Query to Delete Admin.

4)Execute the Query.

5)Check whether the Query is Successful or Not.

6)Then Redirect to the desired page based on the Success or Failure of the Message.

For displaying messages I have used Session Variable.Then I have set the Session Variable in the page where we want the message to be displayed i.e. the redirected page.

Now for all this steps I have written code and executed it.

→Then I have created a new file named UpdateAdminPage.php.

After that I have included MenuSection.php and FooterSection.php files in the UpdateAdminPage.php.

Then I have created a form with the name FullName, UserName, and Password and Provided required CSS to make it look Good.

→To make the UpdateAdmin Button work I have followed the following steps:

A)These Steps are to give Auto data which is already been saved in the Form:

1)Get the ID of the Selected Admin.

2)Check SQL Query to get the Details.

3)Execute the Query.

Check whether the query is executed or not for that we have to check whether we have Admin Data or Not.

Then if there is data available regarding the admin then we have created a variable to save the Admin Data and Update it.

If there is no Admin Data then redirect to AdminPage.php.

Then I have echo the created variables in the Form to display its values in Form.

B)These Steps are to Get the Data and Update it:

1)Check whether the Submit Button is Clicked.

2)Get all the values from Form to Update.

3)Create the SQL Query to Update the Form.

4)Execute the Query.

5)Check whether the query is executed Successfully or Not.

If query is executed successfully then a message will be displayed and we will be redirected to the desired page.The same will happen when query is failed to execute.

For showing the message I have created a Session Variable and Set it in the page where it will be redirected.

→Then we will work on Change Password and for that I have created a File with the name UpdatePassword.php.

Pass the Id of selected Admin through passing the link through the " href " attribute.

Then include the Menu and Footer Section in the file.

Then we will create a Form With values Current Password, New Password and Confirm Password.

Then I applied the required CSS to it to make it look Good.

Then I have written code to get the ID from the AdminPage.php.

Then I started the work on PHP the steps for the Code are:

1)Check whether the Submit Button is clicked.

2)Get the Data from the Form.

3)Check whether the user's current Id and Password Exist or not.

4)Execute the query.

5)Check whether data is available or not? If yes then the user exists and password can be changed and if Not then display a message and redirect to the desired page.

6)If the user exists, check the new password and confirm password matches.

If matches then update the password and if not then display an error message and redirect to the desired page.

Then I have set the Section in the Desired Location.

This is how we can change the password of a user with a specific ID.

→Then we will create a login form.

For that we will first create a file LoginPage.php.

Then I have created a form with values UserName and Password and Submit Button.

Now let's work on the backend of the file:

1)Check whether the submit button is clicked or not.

2)Get the data from the login form.

3)SQL Query to check whether the user with the specific ID and Password exists or not.

If yes, execute the query.

Count row to see if the user exists or not.

If yes then Login and redirect to the desired page.

And if No, display a message and redirect to the desired page.

Then Set the Session in their specified Location.

→Then I started work on the Logout page so for that i have Created a file with the name LogOut.php.

Then I have the code that I have written is:

1)Destroy the Session.

2)And redirect to the Login Page.

This is how LogOut.php is created.

→To control the Access to the Pages I have used Authorization.

If we apply Authorization then the person who has logged in can only access the pages or if any unauthorized person tries to access any page then he or she will be redirected to the Login Page.

For that I have followed the following steps:

1)First store the $UserName variable in the Session " User ".

This session will get unset by LogOut.php as it destroys the Session.

2)Create a new file in the Folder Section and name that file as LoginCheck.php.

The code that this file contains is:

1)Check whether the user is logged in or out.

2)If the user is not logged in then redirect to the Login Page with a Message.

3)Then include that file in the MenuSection.php file.

4)Set the Session in the Desired Page.

3)Designing Category Panel:

→For that you need to Create a file with the name AddCategory.php in CategoryPage Folder.

This file has a form and a button with the name AddCategory which is used to add categories. Form Values are Id, Title, ImageName, Featured and Active.

Here featured and active are the radio button with the values Yes or No.

Then I followed this steps:

1)Check whether the submit button is clicked or not.

2)Get the data from the form.

3)For radio input we need to check whether the button is clicked or not.

If Clicked then get the values and if not then set the default value No.

We will do this for both Featured and Active.

4)Then Create SQL Query to insert Data in the Database.

5)Execute the query and save in the database.

6)Check weather the query is executed or not and Data is added or not.

7)If the query is executed then the category is added and then it is redirected to desired page and it display success message with session.

And if query is not executed and category not added then redirect to desired page and it display Failure message with session.

8)Then I have set the session message.

→Then I have created another td with the name Select Image which has input type file.

→After Active we will check whether the image is selected or not and set the value for the image name accordingly.

Here to get all the data of image I have used " print_r " as " $_FILES " display the data in the form of array.

→Then after that I have taken if Condition to check if input name of file is image(Name of input file) then it has a name and value and if it name has a value then we will upload the Image.

But if name does not have value then we will keep the $imageName as blank.

→ To upload image we need Image Name, Source and Destination Path.

I have written the code for it.

Then by using move_uploaded_file() function I have Uploaded the file.

Check wether the Image is uploaded or not and if image is not uploaded then redirect to the desired page with an error message thereby stopping the process.

→Then I started work on Auto Renaming of Image by getting the extension of image for that I am using end() function with has another function inside it i.e. explode().

Then I have renamed the image as FoodCategory_345.jpg

→Then I started working on CategoryPage.php here I have designed a table with column names Sr.No, Title, Image, Featured, Active, and Actions.

Here in Action we are having option of Delete and Update Category.

→Then I have get all Categories from Database and execute the query by counting the number of rows . Check wether we have data in the database and if Yes then get the data from the database and display it.

Then I have echo the variable which contains the data of the database in a row.

Then I have created $srNo as 1 and Increment it.

But if we don't have data in the database then we will display the error message.

→Then I have worked on Displaying the Image.

I have checked wether the Image Name is available or not.

If we have the Image then display image for that I have used <img> tag.

But if we do not have image then display Error Message.

→Then I have started work on Delete and Update Category.

Then I have created a file with th name DeleteCategory.php and Added its link in Category's page.

Then I have passed Id and ImageName through the link through Get Method.

Then check whether ID and Image name value is set or not.

Then if ID and ImageName value is set then Get and delete value and if not then redirect to category page.

Then I have get Id and Image name. Then I have removed the Image File if Available.

Then Delete data from Database and Redirect to Category Page with message.

If image name is not blank that means image is available then I have given the path of the Image by using unlink() I have removed the image.

And if failed to remove Image then add an error message and stop the process.

Then I started work on deleting the data from the database. Then I have set the SQL query to delete the database.

Then execute the query and check whether the data is deleted from the database or not.

If YES then Set the Session for success message and redirect to Category Page and if NO set the session and redirect to category page.

→Then I have created the file for Update Category i.e. UpdateCategory.php. Then I have created a form with the values Title,Current Image NewImage, Featured and Active.

Then I have passed the Id through the link to Update Category page.

Then I have checked whether the Id is Set or not.

If the Id is set Get the id and all other details. And id is not set then redirect to Manage Category.

Then to get all the details I have created a variable Id and created a query for it.

Then I have execute the query. Count the rows to check whether the Id is valid or not.

Then if $Count is equal to 1 then get all the data. But if not then redirect to category page with a session message.

Then I have created a variable $Result which will store all the data from Database.

Then I have get individual data.

Then I have echo the $Title variable using PHP in the form.

Then in AddCategory.php we have updated the code i.e. that the image will only get updated if the image is selected.

Then I have worked to display the current image.

If $CurrentImage is not Null then only display the image or display a session message.

Then I have worked to display the selected radio button. For that I have used PHP if $Featured and $Active is Yes or No then echo checked.

Then I have worked on Update Category Button if it is clicked then get all the data from form.

→To get the current image name and id I have used Hidden Input Type.

 Then I have updated the database with the help of Query. Then executed the Query, then check whether the query is executed or not.

If a query is executed then update the database and then display the session message with the redirection to the desired page.

But if the query is not executed then display the Failure message with the redirection to the desired page.

Then I have worked on Updating the Image if selected.

→Firstly check if the Image is selected or not if selected then get the image details. And if not the our Image name will be current image.

→Then check the image is available or not. If Yes then Upload the Image and Remove the current Image.

If No then the image name will be current image.

Then to upload the image I have copied the code from AddCategory.php to get the source and destination path.

→Then I have worked on removing image if it is available for that I have taken the path of current image then using unlink() function I have removed it.

Check whether the image is removed or not. If Failed to remove then display the message and stop the process.

Then I have updated the database.

4)Designing Food Panel:

Then I have followed the same process that I have followed in Designing Category Panel.

Creating Files with the names AddFood.php and creating a form with values Title, Description, Price, Select Image, Category, Featured and Active.

Then I have created the PHP code to get the data from the database for category from a table which has been named as table_category and to display that its data as a dropdown menu.

Then I have checked whether the button is clicked and if yes then add the food in the database.

For that get the data from the form and Check whether the radio button and Active and Featured is checked or not.

Then I have followed the same method that I have followed in Category Panel for uploading the image.

Then I have written the query to insert the data in the database.

Execute the data and check whether the data is inserted or not and if inserted then redirect to Food Page with a session message, this will happen same when the data is not inserted.

→Then I have created a table which will have data from the database.

The values of the table are Sr.No, Title, Price, Image, Featured, Active and Action.

Then we will use while loop to display the data from database.

Then I have get the values from individual columns.

Then I have check whether we have image or not.

If we do not have image display error message. But if we have image then display the Image.

→ Then I have created a file named DeleteFood.php and UpdateFood.php and followed the same process that I have followed for DeleteCategory.php and UpdateCategory.php.

This will make Delete Food and Update Food Button work.

5)Connecting our Front-End with Back-End:

→Firstly I am renaming all my HTML pages to PHP.

→And I have enhanced the file paths according to the changes.

→Then I have written the PHP code to display the Categories data from the database to the index.php.

⇒Steps are:

1)Create SQL Query to display category from the Database.

2)Execute the query.

3)Count row to check whether the category is available or not.

If category is available then get the values.

And if Category is not Available then display an message as category is not available.

4)Then check whether the image is available or not.

If Image is not available then display the message as image is not available.

But if image is available then display the image.

→Then I have written the PHP code to display the Foods data from the database to the index.php page.

The steps are Similar as I have given above.

→Then I started to write the code for displaying the Foods from database on Foods.php Page.

⇒Steps are:

1)Here only the items that have Active as YES will be Displayed.

2)Then I have written SQL Query.

3)Then I have used mysqli_num_rows() function to check how many rows are present.

Then I have checked whether the number of rows is greater than 0 Food item is available or else Food item is not available.

4)Then if number of rows is greater than 0 then Get all the Data from the Database and I have stored the data in variables.

5)Then check whether the image is available or not.

If Image is not available then display the message as image is not available.

But if an image is available then display the image.

Proper Idea Regarding Featured and Active

6)Displaying Food on the basis of Category Selected and Searched Keyboard :

⇒Displaying Food on the Basis of Searched Keyboard:

→For this functionality to work I have created a new file FoodSearch.php.

Then I have get the Searched Keyword in a Variable after that I have written SQL Query to get Foods based on searched Keyboard.

Then I have executed the query and then created a variable to count number of rows to check whether Food is available or not.

If Food is available fetch all the data and if Food is not available then return an error message.

Then check whether the image is available or not.

If Image is not available then display the message as image is not available.

But if an image is available then display the image.

⇒Displaying Food on the Basis of Category Selected:

→In Categories Section of index.php Page we have to pass the URL with the Id to the new file i.e. Categorie_sFoods.php. Then we have to check wheather the Id is

passed or not. If the Id is passd then I have written a query to get the Category Title based on Category Id.

Then I have execute the query and then I get the data from the database with Title.

But if the Category Id is not Passed then I have redirected it to Home Page.

The above statements are to see whether the Category Id is passed or not.

→Now we will write the statements to display the foods based on selected category:

1)Create SQL Query to get the Food based on Selected Category.

2)Then I have Executed the Query.

Then I have count the rows to check whether the food is available or not.

If Foods are available then get their Values , but if Food is not available then display the error message.

Then check whether the image is available or not.

If Image is not available then display the message as image is not available.

But if an image is available then display the image.

7) Managning Orders:

→Firstly we will pass "FoodId" Variable through the URL to the OrderNow.php Page.

Then we will start our work on OrderNow.php and we will Write certain lines of Code which has following Steps:

1)Check whether the FoodId is set or Not.

2)Get the Food Id and Details of the Selected Food.

Then I have written the Query for the Selected Food and then Execute the Query.

Then Count number of rows an d if row is equal to 1 then get the data from the database.

Or else redirect to home page.

3)Then I have echo the respective Price, and Name of the food in the Form.

Then to get the Image from the Database for the from we will check whether the Image is present or not. But if the image is present then I have displayed the Image and if it is not Present then I have displayed the message.

4)Then I have worked on getting the data from the User and Saving it to the Database.

→Then I have created an input type as hidden for the Food Name and Price.

→Check whether the Submit Button is clicked or not.

→If the button is clicked then get all the details and then I have created a query for saving the data in the database.

Then I have executed the query and check whether the query is executed or not.

If the query is executed successfully then then display a message using session and if the query failed to execute then also follow the same process as above.

5)Then we will work on getting the data from database and displaying it in the Admin Panel.

We have to get the data from the database and display it on the OrderPage.php.

For that I have first created the Table with the values Sr.No., Food, Price, Quantity, Total, OrderDate, Status, CustomerName, CustomerContact, CustomerEmail, CustomerAddress and Actions.

→I have created a Button to update the order in the column of Actions..

→Then I have written the PHP Code to get all the Data from the Database.

I have written the query to Get all the data from the database.

 Then executed the query and count number of rows and if rows are greater than 0 then orders are available and if it is not then the orders are not available and then I have displayed an error message.

Steps to follow if Orders are available:

1)First write the code to fetch the data from the database and then echo the variables that have the data of database placed in it.

6)Then I have Created a file name UpdateOrder.php and passed the Id in the URL to this page. Then I have kept the Same layout for the page as I have used before.

→In Main Content Section I have first check whether the Id is SET or Not. And get the order details based on the given Id with the help of query.

→Then Execute the query and then count rows and if rows is equal to 1 Get the details available.

 Here I have stored the details in their respective variables.

→If the Details are not available then redirect to OrderPage.php.

→Then create the Form and based on the above defined variables and then check whether the Submit button is clicked or not. If yes then get all the data from the forms.

Then I have taken hidden inputs for the form that are Id and Price.

Then Created the SQL Query for Updating the Database.

Then Execute the Query and check weather the data is updated or not. If the data is updated then Redirect to OrderPage.php page with the Session Message and if the updating of teh database fails then also redirect and display a failure message.
→Finally I have given Style to the Options of the Status in OrderPage.php.

8) Displaying Summary Dashboard on Admin Panel:

→Here I am displaying Categories, Foods, Total Orders, and Revenue Generated data from the database to the Dashboard.
→For displaying the data we will use the same method for Categories, Foods, and Total Orders that is:
1)Firstly I have written a SQL Query
2)Execute the Query
3)Then I have count the rows and put the counted row data in a variable and then I have to echo the Variable in the place of displaying the data.
→For displaying the data for Revenue Generated the steps are:
1)Create the SQL Query for getting the data.
2)Here we are using Aggregate Function
3)Execute the Query.
4)Get the value and then the total revenue.
5)Echo the variable which has the total revenue.

9) Solved the Problem for SQL Injection:

⇒What is SQL Injection?
→SQL Injection is a code-based vulnerability that allows an attacker to read and access sensitive data from the database.
→Attackers can bypass security measures of applications and use SQL queries to modify, add, update, or delete records in a database.
→A successful SQL injection attack can badly affect websites or web applications using relational databases such as MySQL, Oracle, or SQL Server.
→SQL injection is a code injection technique that might destroy your database.
→SQL injection is one of the most common web hacking techniques.
→SQL injection is the placement of malicious code in SQL statements, via web page input.
⇒Solution

→PHP provides *mysqli_real_escape_string()* to escape special characters in a string before sending a query to MySQL. This function was adopted by many to escape single quotes in strings and by the same occasion prevent SQL injection attacks.