Department of Computer Science and Engineering
Faculty of Technology & Engineering
The M. S. University of Baroda, Vadodara

Academic Year: 2021 – 2022

PROJECT REPORT

ON

PICKY PIGS

AS A PARTIAL REQUIREMENT FOR THE DEGREE

OF

MASTER OF COMPUTER APPLICATION

(M.C.A.)

SUBMITTED BY:
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GUIDED BY:
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Department of Computer Science and Engineering
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Certificate

This is to certify that the project titled " **Picky Pigs**" is the bonafide work carried out by **Parmar Yashkumar Kishorbhai (2020033800121296)** students of MCA2 Sem-IV of Department of Computer Science and Engineering

Faculty of Technology & Engineering affiliated to The M. S. University of Baroda, Vadodara. He/she has successfully completed his/her project work in partial fulfillment of the requirements for the award of the degree of **"Masters of Computer Application"** during the academic year **2021-2022**. And that the project has not formed the basis for the award previously of any other degree, diploma, fellowship or any other similar title.

_____

Prof. Kamlesh Vaishnav
Project Guide
Date:

ACKNOWLEDGEMENT

Our Self Mr. Parmar Yashkumar K. Have opportunity to Express our knowledge. We would like to express our gratitude to all those who gave us the possibility to complete our project Picky Pigs.

Success is such a comprehensive project cannot achieve single-handed. It is team effort that sails the ship to the coast. So, we would like to Express our sincere thanks to all the dignitaries who were involved in making this project the great joy and turning it our into successful piece of work

Prof. Kamlesh Vaishnav – Our professor and Project Co-ordinates has been very prudent to us threw out the college studies. They are the person who has giving this direction to our work and the shape to our Imagination. We Express our regard to them from the core of our hearts.

We also like to thanks our all the Project Manager who are always Ready to give best Guide and Special thanks to Pratik Shah. He is the person behind the idea of this project and give Solution whenever needed.

We would also like to acknowledge all the friends and Colleagues, team member for the help and Encouragement By them for time to time. The Constant support and encouragement of my friend is deeply appreciating. The project indeed gave challenging and Exhilarating experience in designing and developing the required System.

From,
Parmar Yashkumar K.

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1.Introduction

1.1 Project Description
1.2 Project Profile

1.1 Project Description

This is your **ultimate food finding application** for FUSS FREE FOOD. Search for the best place for you to dine based on all of your needs, add and remove filters to create a personalized digital menu and even send your own order to the kitchen to ensure you feel safe and in control.

Picky Pigs(ultimate food finding application), which will find you a selection of restaurants and dishes that meet your needs. It will also find your location to show you the closest restaurants to you.

You can search by allergy requirements, dietary preferences, lifestyle choices or even restaurant features. So whether you have an allergy, choose to eat a plant-based diet, are pregnant, want to take your dog, or are just thinking more consciously about what you eat, Picky Pigs is your ultimate dining out tool.

Picky Pigs is an extensive and powerful script written in React as frontend and NodeJS as backend.

❖ Features

- To make fuss free food more easily accessible, regardless of dietary needs and preferences.
- To enhance the entire dining out experience from beginning to end.
- by helping them find a restaurant that meets their every need according to user requirements like allergy, cuisine type, dietary preference, according dish ingredient, lifestyle etc,.
- Once you have added your preferences you're then able to see all the suitable restaurants.
- Here you can see all their information, links to their website, bookings and social accounts. You can also see their full menus and if theyre available of not.
- You'll see a full breakdown of each dish – its ingredients, allergens, calories and macros – giving you more control and greater choice.
- With more detail you are able to see which elements can be removed and pre-select your perfect dish before arriving at the restaurant.
- Picky Pigs allows you to enjoy the entire dining out experience, from choosing your perfect place, to ordering and indulging in your

perfect dish. There's no need to feel like a 'fussy feeder' when you arrive at the restaurant. Just relax, enjoy the experience, and rediscover your love for dining out. And all fuss free.

1. User Panel Features: -
    - Login
    - View restaurant
    - View restaurant by filter
    - Profile update
    - View restaurant by nearest location
    - Explore by Occasion (lunch, breakfast, Dinner, Dessert, bufflet, Drink etc.,)
    - PWA (Progressive web app)

2. Restaurant Panel Features: -
    - Login
    - Restaurant profile update (Opening timing, address, location, social media account details, features, add food Image etc.)
    - Upgrade Membership
    - Change password
    - Manage category
    - Manage sub-category
    - Create & Manage Dishes

3. Admin Panel Features: -
    - Login
    - Manage restaurant
    - Active / Inactive restaurant
    - Manage Users
    - Export CSV file for backup user data
    - Manage Allergy
    - Manage Dietary
    - Manage Lifestyle
    - Manage Cuisine
    - Manage Restaurant Features
    - Manage Cooking methods

1.2 Project Profile

Project Details	
Project Title:	Picky Pigs
Front-End:	ReactJS
Back-End:	NodeJS
Database:	MongoDb
Browser:	All Browser Supported
Company Guide Name:	Pratik Shah
Title / Designation	Project Manager
Platform:	NodeJS v12 and above and ReactJS v17
Tools Used For:	Postman, MongoDB compass, Visual Studio code
Submitted To:	Faculty of Technology & Engineering The M. S. University of Baroda, Vadodara
Developed By:	Parmar Yashkumar Kishorbhai

2.Environment Description

2.1 Hardware and Software Requirements
2.2 Technologies Used

2.1 Hardware and Software Requirements

The efficient hardware and software configuration require to run the system is as suggest below. The configuration suggested is for better performance. Same functionality or **higher configuration will always better.**

Client Side

- Internet Enabled Device with Web-browser

Server Side

- Disk Space (1 GB) Minimum
- NodeJS web server.

Development Side

- **Processor**: Intel Core i3 7th Generation
- **O.S.**: Windows 10
- **Memory**: 4.00 GB (8.00 GB Recommended)
- **Hard-Disk**: 1.00 TB
- **Web-Browser**: Google Chrome (Recommended), Mozilla Firefox

2.2 Technologies Used

JavaScript: -

- JavaScript is a programming language that can be included on web pages to make them more interactive. You can use it to check or modify the content of forms, change images, open new windows and write dynamic page content.
- You can even use it with CSS to make DHTML (Dynamic Hypertext Markup Language). This allows you to make parts of your web pages appear or disappear or move around on the page.

- **JavaScript Feature**

  - JavaScript is more flexible language.
  - JavaScript make possible all type of validation and security.
  - JavaScript has set of function.

NODEJS

- As an asynchronous event-driven JavaScript runtime, Node.js is designed to build scalable network applications.
- NodeJS is a server-side scripting language, which can be embedded in different type of predefine libraries. Sometimes it's also called as open source.
- This is in contrast to today's more common concurrency model, in which OS threads are employed. Thread-based networking is relatively inefficient and very difficult to use.
- Furthermore, users of Node.js are free from worries of dead-locking the process, since there are no locks. Almost no function in Node.js directly performs I/O, so the process never blocks except when the I/O is performed using synchronous methods of Node.js standard library. Because nothing blocks, scalable systems are very reasonable to develop in Node.js.

ExpressJS

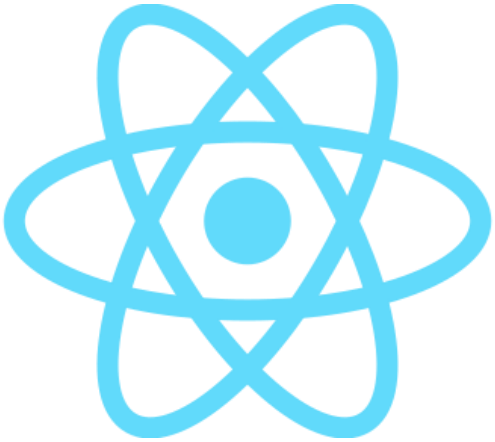
Express JS

- ExpressJS is Fast, unopinionated, minimalist web framework for Node.js
- Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.
- With a myriad of HTTP utility methods and middleware at your disposal, creating a robust API is quick and easy.
- Express provides a thin layer of fundamental web application features, without obscuring Node.js features that you know and love.
- Many popular frameworks(NestJS, Express gateway, keyStoneJS etc.,) are based on Express.

ExpressJS Features: -

- Faster Server-side Development
- Middleware
- Routing
- Templating
- Debugging

ReactJS: -



- React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.
- Declarative views make your code more predictable and easier to debug.
- Build encapsulated components that manage their own state, then compose them to make complex UIs.
- Since component logic is written in JavaScript instead of templates, you can easily pass rich data through your app and keep state out of the DOM.
- Learn Once, Write Anywhere.
- We don't make assumptions about the rest of your technology stack, so you can develop new features in React without rewriting existing code.

MongoDB: -

- MongoDB, the most popular NoSQL database, is an open-source document-oriented database. The term 'NoSQL' means 'non-relational'. It means that MongoDB isn't based on the table-like relational database structure but provides an altogether different mechanism for storage and retrieval of data. This format of storage is called BSON (similar to JSON format).

MongoDB Features: -

- **Document Oriented:** MongoDB stores the main subject in the minimal number of documents and not by breaking it up into multiple relational structures like RDBMS. For example, it stores all the information of a computer in a single document called Computer and not in distinct relational structures like CPU, RAM, Hard disk, etc.
- **Indexing:** Without indexing, a database would have to scan every document of a collection to select those that match the query which would be inefficient. So, for efficient searching Indexing is a must and MongoDB uses it to process huge volumes of data in very less time.
- **Scalability:** MongoDB scales horizontally using sharding (partitioning data across various servers). Data is partitioned into data chunks using the shard key, and these data chunks are evenly distributed across shards that reside across many physical servers. Also, new machines can be added to a running database.
- **Replication and High Availability:** MongoDB increases the data availability with multiple copies of data on different servers. By providing redundancy, it protects the database from hardware failures. If one server goes down, the data can be retrieved easily from other active servers which also had the data stored on them.
- **Aggregation:** Aggregation operations process data records and return the computed results. It is similar to the GROUPBY clause in SQL. A few aggregation expressions are sum, avg, min, max, etc.,

Postman: -

- Postman is an API(application programming interface) development tool which helps to build, test and modify APIs. Almost any functionality that could be needed by any developer is encapsulated in this tool. It is used by over 5 million developers every month to make their API development easy and simple.
- It has the ability to make various types of HTTP requests(GET, POST, PUT, PATCH), saving environments for later use, converting the API to code for various languages(like JavaScript, Python).

Visual Studio Code: -

- Visual Studio Code (famously known as VS Code) is a free open source text editor by Microsoft. VS Code is available for Windows, Linux, and macOS.
- Although the editor is relatively lightweight, it includes some powerful features that have made VS Code one of the most popular development environment tools in recent times.
- VS Code allows you to add on and even creating new extensions including code linters, debuggers, and cloud and web development support.

CSS 3: -

What is CSS?

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

CSS Features

CSS has three types:

- **Internal cascading style sheet:**
  In which code of style is embedded into html source Code.
- **External cascading style sheet:**
  In which code is kept external file.
- **Inline cascading style sheet:**
  In which tag of style is embedded into html tag code

3. System Analysis and Planning

3.1 Existing System and its Drawbacks
3.2 Feasibility Study
3.3 Requirement Gathering and Analysis

3.1 Existing System and its Drawbacks

The main goal of our system is to reduce the drawbacks of existing system like lack of communication and clarity about allergy, cuisine type, lack of Dietary Information, what ingredients are used in dish and lifestyle of Restaurant.

Users get good restaurant for them, they have to visit every restaurant and get information about food items, ingredient etc., its time-consuming process.

While searching and restaurant on phone, customer lacks the physical copy of the menu items, lack of visual confirmation of dishes.

By creating Picky Pigs, its aims to support and protect diners and restaurants a like for a safe and enjoyable dining out experience.

Our website gives people control and choice over what they do or don't put into their body. it follows a plant-based, lactose-free and low gluten diet and wants to have confidence in that experience.

Thus, we can say in previous system it takes more time to find restaurant according to customer requirement, As they have to go every restaurant and get details about dishes its own. It wasn't well that's why we need Picky Pigs to get details about best dishes in less time.

Hence, to solve this issue, what I propose is an "Picky pigs" originally designed for small scale restaurant.

3.2 Feasibility Study

All projects are feasible, provided that unlimited resources and infinite time are available. However, in real world that can sound like dream. Especially computer-based systems are likely to be bounded by limited resources as well as time. Feasibility & risk is related in many ways. If the risk is great then feasibility of producing quality software is reduced.

Technical Feasibility

This project does require that much of higher & advanced technology. It's requires database Interaction and it requires to be accessed via web or internet. This can be easily done. It must be developed within the four

months of period excluding the time period for the testing and validation, verification. Thus, it seems that the project is technically feasible to do.

Economic Feasibility

In This project, we will require to not purchasing much of the tools like web cameras to take the photograph of a person or shut Video of that person, but as it will be web-enabled we do not have any extra cost of setting up a network. This is also feasible economically.

Operational Feasibility

The web application can be beneficial only if it satisfies the organization requirement; in such a way that resource utilization & optimum outcome is justified. A web application should not only be robust but should also be able to work Simultaneously with other systems. Operational feasibility means that web application should not affect any existing system during the development phase or even in the implementation phase

Management Feasibility

Management feasibility ratio and aspect of management News. Here all level of management rise of related basic feasibility and gives their decision for all those feasibilities to use or not is not comes in basic feasibility of system, bus how the requirement of that all, after that all manager.

Time Feasibility

Time feasibility describes the time cost for converting the existing system to web application. As a for completion. This System is Develop under the time period of just four months so we can say that this system is time Feasible.

3.3 Requirement Gathering and Analysis

Gathering requirements for the project is the most important part of the software development.

There are two main reasons for specifying requirements.

1. It guides design and decision-making processes towards a correct solution.
2. Provides a basis of testing the implemented solution is correct.

Every successful system passes through requirement gathering because without any requirement the development process is like adding bugs in empty system.

Requirement gathering and analysis makes the whole picture of the system and because of that we can identify the features, the modules, the functionality of the system.

What type of activities are included?

- How to manage all restaurant ?
- What type of dishes should be included ?
- How to manage login and logout process ?
- Which types of requirements are user prefer ?
- How work any Device compatible mobile as well as web ?
- How to manage all restaurant by its location ?
- How many packages of restaurant ?
- How to manage restaurant menus ?
- Which restaurant information are provide ?
- How many restaurants are going to use this website ?
- What is the knowledge level of the restaurant and how does it maintain the ordering criteria?

We analyzed our gathered information and we have decided our system should have following functionalities.

❖ Module 1

User

- Log in
- Explore restaurant
- Get restaurant by filter
- Get restaurant by location
- Get dishes by filter

❖ Module 2

Restaurant

- Log in
- Manage restaurant profile
- Manage menus
- Manage category
- Manage sub-category
- Manage dishes

❖ Module 3

Super-admin

- Login
- Manage all restaurant
- Approve restaurant
- Active / Inactive restaurant
- Manage user
- Manage Allergy
- Manage Dietary
- Manage Lifestyle
- Manage Cuisine
- Manage Restaurant features
- Manage cooking method

4. Proposed System

4.1 Scope
4.2 Project modules
4.3 Module vise objectives/functionalities Constraints
4.4 Expected Advantages

4.1 Scope

We believe with the help of our web application users are able to find restaurant according to requirement . The system provides best interface and functionality to the user. Following are the scope of our system.

- To provide user friendly interface
- To reduce the time behind finding restaurant and dishes
- To provide best functionality and features to find restaurant and dishes.
- To provide facility login by google or facebook accounts for the users
- To provide restaurant by user location, how to far from them.
- To provide user report generate facility to the admin
- To provide updated details of restaurant and dishes to the users
- To provide app base functionality for users .
- To provide best visual represent of dishes information(dietary, allergy, cooking method etc.,) their restaurant .
- To provide best security features to the users and restaurant

5. Detail Planning

5.1 Data Flow Diagram / UML
5.2 Process Specification / Activity Flow Diagram
5.3 Data Dictionary
5.4 Entity-Relationship Diagram / Class Diagram

5.1 Data Flow Diagram / UML

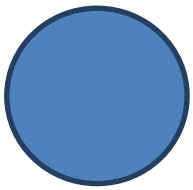
A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and Outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

Strict landing page policy:

- A data flow diagram needs to be simple because user has to go through it, understand suggest correction or changes.
- External entity
- Data flow
- Process
- Data stores

Symbols used in DFD:

1. **Process: -**



- Flow of data is transformed.
- A Process represents some amount of work u
- sing behavior of data.
- Transformation of data from one form to another.
- A circle represents a process.
- The area of the circle is divided into two parts.
- The process number is written in the top portion and process name is written the bottom portion.
- E.g. verify credits, update inventory file, etc.

2. **External Entity: -**

- A source or destination of data which is external to the system.
- As the name suggest it line outside the context of the system. It represented by solid squares.

- The people/department that will be giving the data and/or receiving information.
- It can be referred to as external entities as they do not accomplish any word done by the system.
- The data coming in and the report produced are referred as the input and Output of the system respectively.

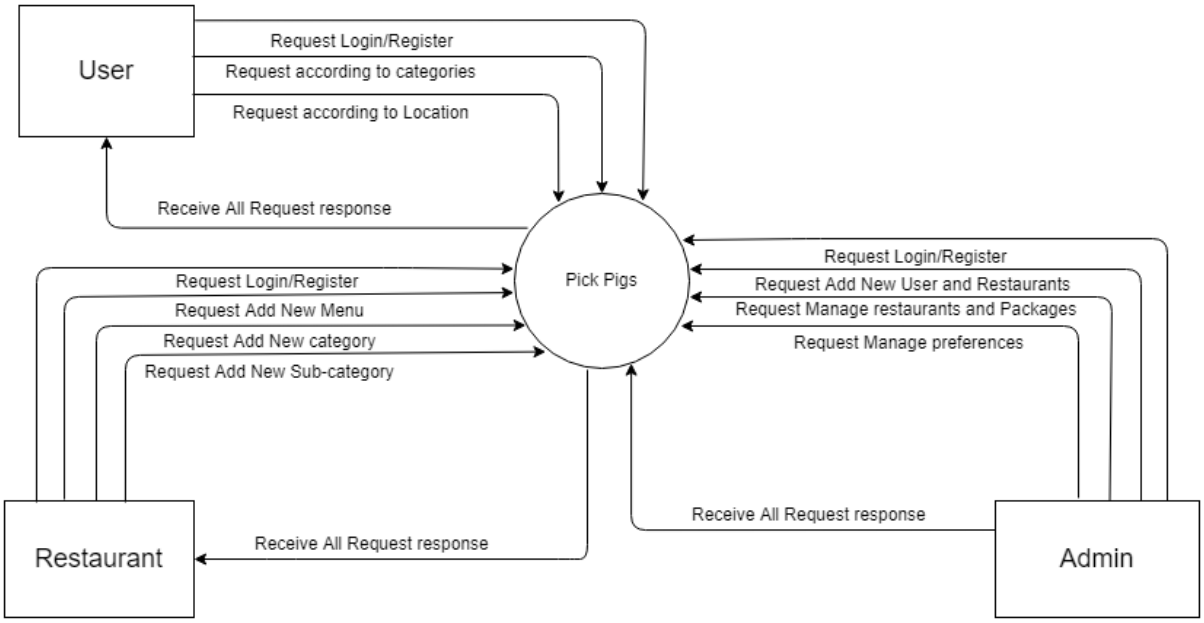
3. Data Flow: -

- Line is packet of data. it may be of form of documentation, letter etc.
- A data flow portrays an interface among different components in the flow diagram. It represents the data of the data as it flows through a system. An arrow represents it.
- The arrow head point in the direction in which the data moves.

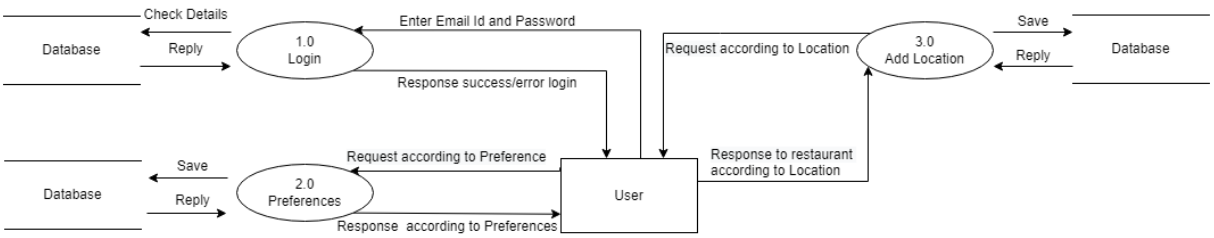
4. Data Stores: -

- Any stores data but no reference to the physical method of storing.
- If there is a logical requirement for the data to be stored, it is held in a data store.
- A data store there for, is a repository of the data.

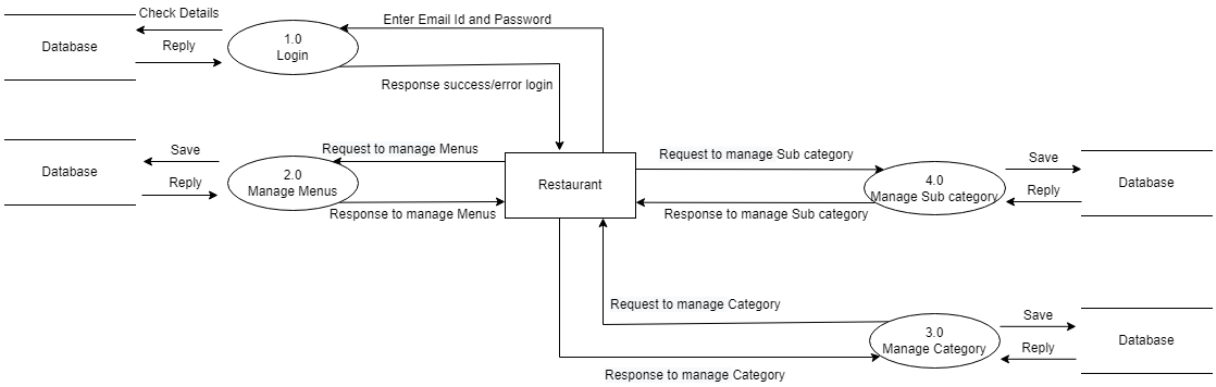
❖ Context Level DFD



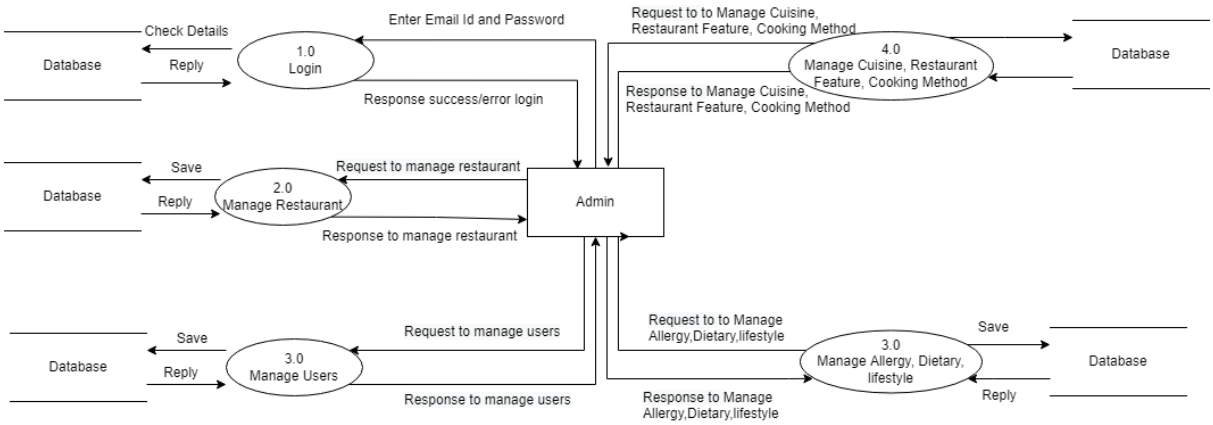
❖ 1st Level DFD User



❖ 1st Level DFD Restaurant



❖ 1st Level DFD Admin



5.2 Data Dictionary

Table 4.5.1 Allergen

Field Name	Data Type	Size	Constaints	Description
_id	Object	--	Primary Key	Allergen id
name	String	200	-	Allergen name
superAdminId	Object	--	Foreign key	Superadmin foreign key
Description	String	7500	-	Allergen description
Image	String	300	-	Allergen image
isDeleted	Boolean	1	-	Allergen is deleted
numberOfTimeSelected	Number		-	
isActive	Boolean		-	Allergen is active

Table 4.5.2 Category

Field Name	Data Type	Size	Constaints	Description
_id	Object	--	Primary Key	Category id
name	String	200	-	Category name
restaurantId	Object	--	Foreign key	Restaurant foreign key
menuId	Object	--	Foreign key	Menu foreign key
isDeleted	Number	--	-	Category is deleted
isActive	Boolean	1	-	Category is active
cloneCategory	Object	--	Foreign key	cloneCategory foreign key

Table 4.5.3 Cooking Method

Field Name	Data Type	Size	Constraints	Description
_id	Object	--	Primary Key	Cooking method Id
name	String	200	-	Cooking method name
superAdminId	Object	--	Foreign key	Superadmin foreign key
description	String	7500	-	Cooking method Description
Image	String	300	-	Cooking method Image

isDeleted	Number	--	-	Cooking method is deleted
isActive	Boolean	1	-	Cooking method is active

Table 4.5.4 Cuisine Type

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Cuisine id
name	String	200	-	Cuisine name
superAdminId	Object	-	Foreign key	Superadmin foreign key
description	String	7500	-	Cuisine description
Image	String	300	-	Cuisine image
isDeleted	Number	-	-	Cuisine is deleted
isActive	Boolean	1	-	Cuisine is active

Table 4.5.5 Dietary

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Dietary id
name	String	200	-	Dietary name
superAdminId	Object	-	Foreign key	Superadmin foreign key
description	String	7500	-	Dietary description
Image	String	300	-	Dietary image
isDeleted	Number	-	-	Dietary is deleted
numberOfTimeSelected	Number	-	-	Dietary number of time it is s elected
isActive	Boolean	1	-	Dietary is active

Table 4.5.6 Dish Ingredient

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Dish Ingredient id
Item	String	200	-	Dish Ingredient item name

Qty	Number	-	-	Dish Ingredient quantity
Allergeies	Object	-	Foreign key	Dish Ingredient foreign key
Customisable	Boolean	1	-	Dish Ingredient customizable or not
dishId	Object	-	Foreign key	Dish Ingredient foreign key
restaurantId	Obeject	-	Foreign key	Dish Ingredient foreign key

Table 4.5.7 Dish

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Dish id
Name	String	200	-	Dish name
Price	Number	-	-	Dish price
priceUnit	String	200	-	Dish price in unit
grossProfit	Number	-	-	Gross profit on profit
Image	String	300	-	Dish image
Favorite	Boolean	1	-	favourite Dish or not
New	Boolean	1	-	It is a new Dish or not
Available	Boolean	1	-	Dish is available or not
menuId	Object	-	Foreign key	Menu foreign key
categoryId	Object	-	Foreign key	Category foreign key
subcategoryId	Object	-	Foreign key	Sub category foreign key
Description	String	7500	-	Dish Description
allergenId	Object	-	Foreign key	Allergen foreign key
dietaryId	Object	-	Foreign key	Dietary foreign key
lifestyleId	Object	-	Foreign key	Lifestyle foreign key
cookingMethodId	Object	-	Foreign key	Cooking method foreign key
Dish_features_optionId	Object	-	Foreign key	Dish features foreign key
Instructions	String	350	-	Dish instructions
Customisable	Boolean	1	-	Dish cutomisable or not
createNewVersion	Boolean	1	-	New dish version or not
restaurantId	Object	-	Foreign key	Restaurant foreign key
isDeleted	Number	-	-	Dish is deleted or not
isActive	Boolean	1	-	Dish is active or not
ingredientSection	Object	-	-	Ingredients in Dish
cloneDishFrom	Object	-	Foreign key	Clone dish foreign key
pageViews	Number	-	-	Dish page views

Table 4.5.8 Lifestyle

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	**Lifestyle id**
Name	String	350	-	Lifestyle name
superAdminId	Object	-	Foreign key	Superadmin foreign key

Description	String	7500	-	Lifestyle description
Image	String	350	-	Lifestyle image
isDeleted	Number	-	-	Lifestyle is deleted or not
numberOfTimeSelected	Number	-	-	Number of time lifestyle is selected
isActive	Boolean	1	-	Lifestyle is active or not

Table 4.5.9 Menus

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Menus id
Name	String	200	-	Menus name
timeFrom	String	-	-	Menus timefrom
timeTo	String	-	-	Menus timeto
isAvailable	Boolean	1	-	Menus isvailable or not
Availability	Object	-	-	Menus is available or not
restaurantId	Object	-	Foreign key	Restaurant foreign key
Type	String	100	-	Menus type
styleOfmenu	String	100	-	Style of menu
isDeleted	Number	-	-	Menus isdeleted or not
isActive	Boolean	1	-	Menus isactive or not
parentMenu	Object	-	Foreign key	Parentmenu foreign key
cloneMenu	Object	-	Foreign key	Clonemenu foreign key
isSeasonBase	Boolean	1	-	Menus isseason base or not

Table 4.5.10 Restaurants Address

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Restaurants Address id
restaurantId	Object	-	Foreign key	Restaurant foreign key
Street	String	500	-	Restaurants street
Locality	String	500	-	Restaurants Locality
Pincode	Number	-	-	Restaurants pincode
Zipcode	Number	-	-	Restaurants zipcode
addLocationMap	Boolean	1	-	Restaurants location on map
shareLocationOption	Boolean	1	-	Restaurants share location option
getDirectionOption	Boolean	1	-	Restaurants get direction option
googleAddress	String	1000	-	Restaurants google address

Map	Object	-	-	Restaurants Address on map

Table 4.5.11 Restaurants Details

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Restaurants Details id
restaurantId	Object	-	Foreign key	Restaurant foreign key
openingTimings	Object	-	-	Restaurants opening
Website	Object	-	-	Restaurants website
Bookings	Object	-	-	Restaurants booking
socialMedia	Object	-	-	Restaurants social medias

Table 4.5.12 Restaurants Features

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Restaurants Features id
restaurantId	Object	-	Foreign key	Restaurants foreign key
averageCostOfTwoPerson	Number	-	-	Average cost of two person
inclusiveTaxesAndCharges	Boolean	1	-	Inclusive taxes and charges
cashAccept	Boolean	1	-	Restaurants Features cash accept or not
cardAccept	Boolean	1	-	Restaurants Features card accept or not
cuisineType	Object	-	Foreign key	Cuisine type foreign key
restaurantFeaturesOptions	Object	-	Foreign key	Restaurants features option foreign key
appliesOfRestaurant	String	100	-	Applies of restaurants
restaurantStyle	String	100	-	Restaurants style

Table 4.5.13 Restaurants Gallary

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Restaurants Gallary id
restaurantId	Object	-	Foreign key	Restaurants foreign key
Ambience	String	-	-	Restaurants Gallary ambience
Food	String	200	-	Restaurants Gallary food
Video	String	350	-	Restaurants Gallary video

Images	String	350	-	Restaurants Gallary images

Table 4.5.14 Restaurant

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	Restaurant id
isDeleted	Number	-	-	Restaurant isdeleted or not
Name	String	200	-	Restaurant name
restaurantProfilePhoto	String	350	-	Restaurant profile photo
restaurantCoverPhoto	String	350	-	Restaurant cover photo
About	String	7500	-	Restaurant about
userId	Object	-	Foreign key	User foreign key
Info	Object	-	-	Restaurant info
contactName	String	-	-	Restaurant contact name
Company	String	-	-	Restaurant company
phoneNumber	String	-	-	Restaurant phone number
numbericSubscriptionLevel	Number	-	-	Restaurant subscription level
Package	String	-	-	Restaurant package
isAgreeToTerms	Boolean	-	-	Restaurant is agree to terms
Security	Object	-	-	Restaurant security
pageViews	Number	-	-	Restaurant view
totalDishes	Number	-	-	Restaurant dishes
isActive	Boolean	-	-	Restaurant is active or not

Table 4.5.15 User

Field Name	Data Type	Size	Constraints	Description
_id	Object	-	Primary Key	User id
Email	String	200	-	User Email
Password	String	200	-	User Password
Role	String	100	-	User Role
emailVerified	Boolean	1	-	User emailVerified
accoutType	String	-	-	User accoutType
googleId	String	350	-	User googleId

facebookId	String	350	-	User facebookId
forgotPasswordToken	String	100	-	User forgot Password Token
isDeleted	Number	-	-	User isdeleted or not
isActive	Boolean	1	-	User isActive or not

Sequence Diagram

Sequence Diagrams are interaction diagrams that detail how operations are carried out. They capture the interaction between objects in the context of a collaboration.The given diagram is an illustration of our sequence diagram. Here the two or more users who registered into our database will interact where one will post some content on their profile and another user will be able to see the content. The data will be stored and fetched from a database.

Figure 4.2.1 : Sequence diagram

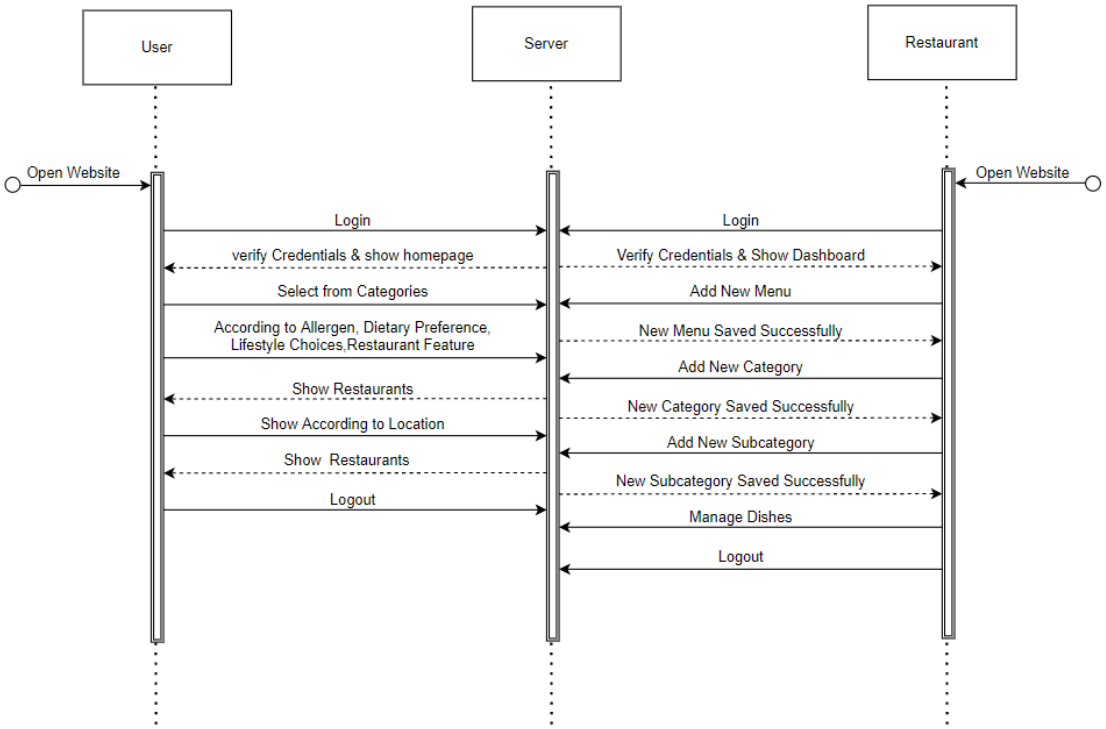
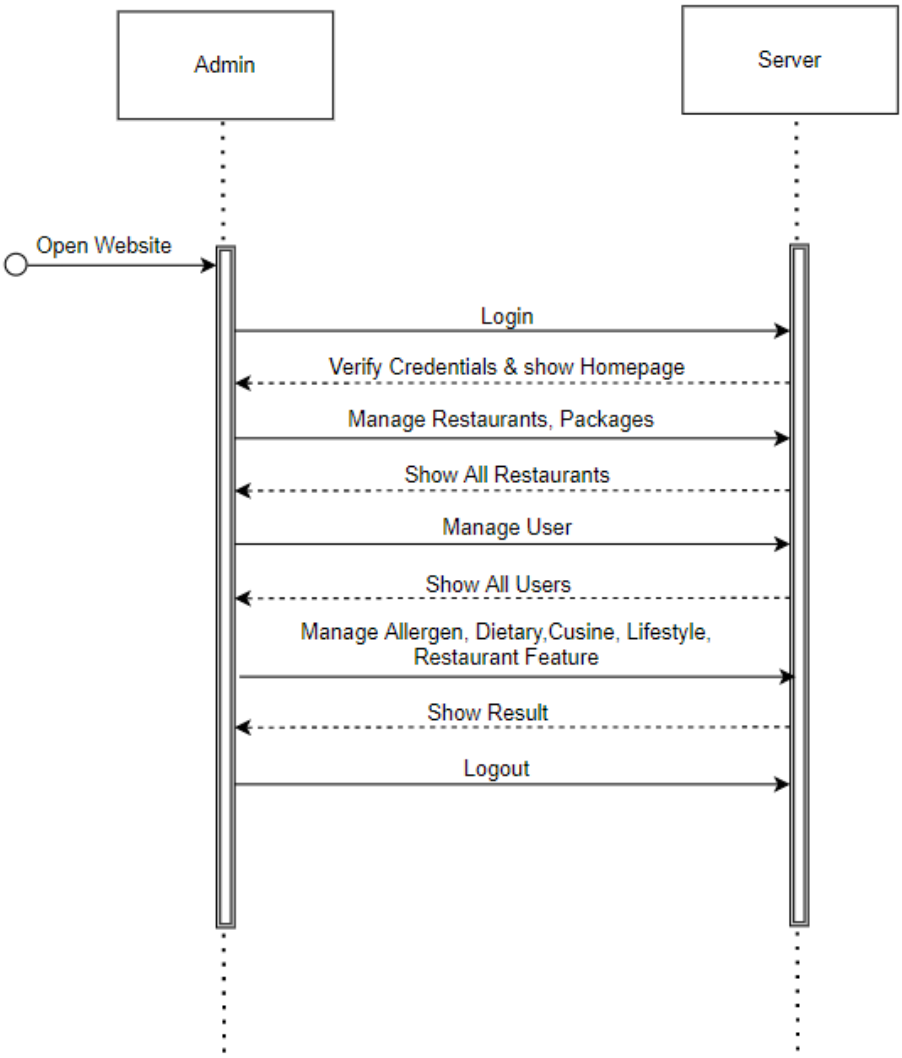


Figure 4.2.2 : Sequence diagram


Admin
Server
Open Website
Login
Verify Credentials & show Homepage
Manage Restaurants, Packages
Show All Restaurants
Manage User
Show All Users
Manage Allergen, Dietary,Cusine, Lifestyle,
Restaurant Feature
Show Result
Logout

yyyyyyy

Activity Diagram

The basic purposes of activity diagrams are similar to other four diagrams. It captures the dynamic behavior of the system. Other four diagrams are used to show the message flow from one object to another but activity diagram is used to show message flow from one activity to another. Activity is a particular operation of the system. Activity diagrams are not only used for visualizing dynamic nature of a system but they are also used to construct the executable system by using forward and reverse engineering techniques. The only missing thing in activity diagram is the message part.

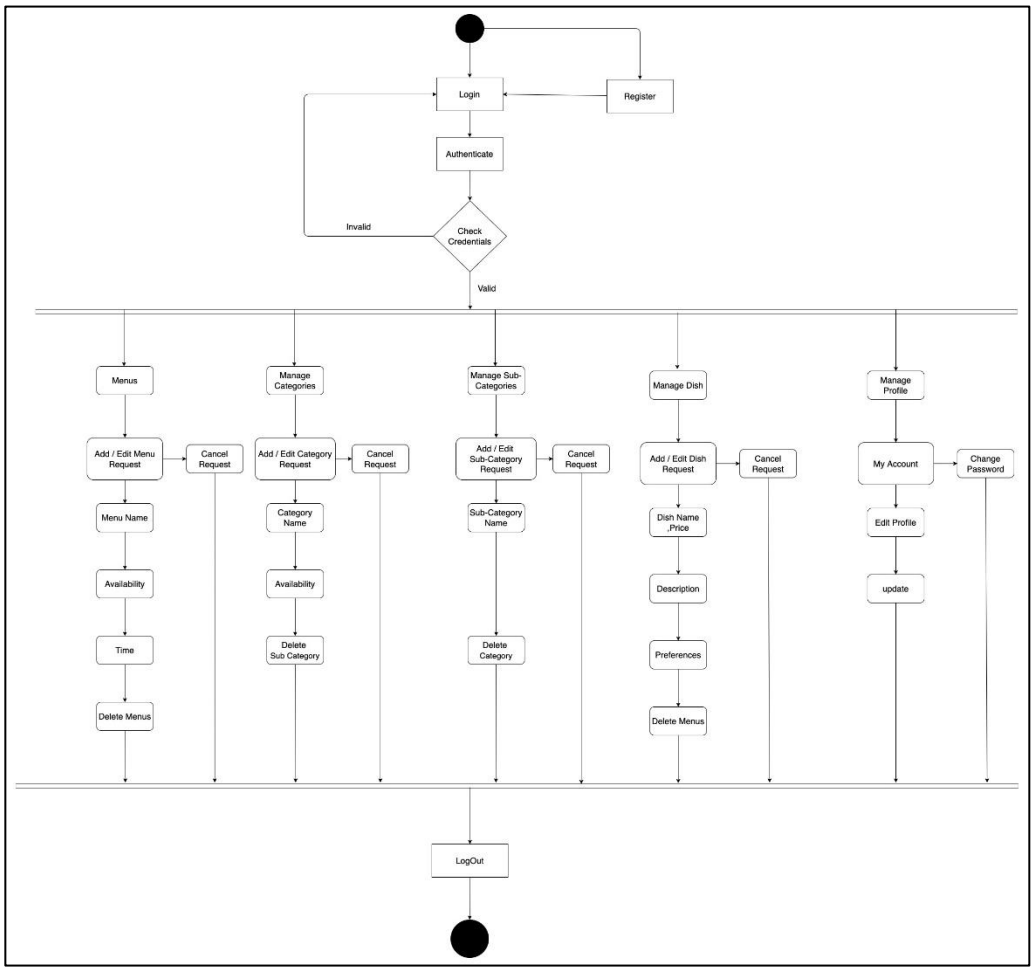
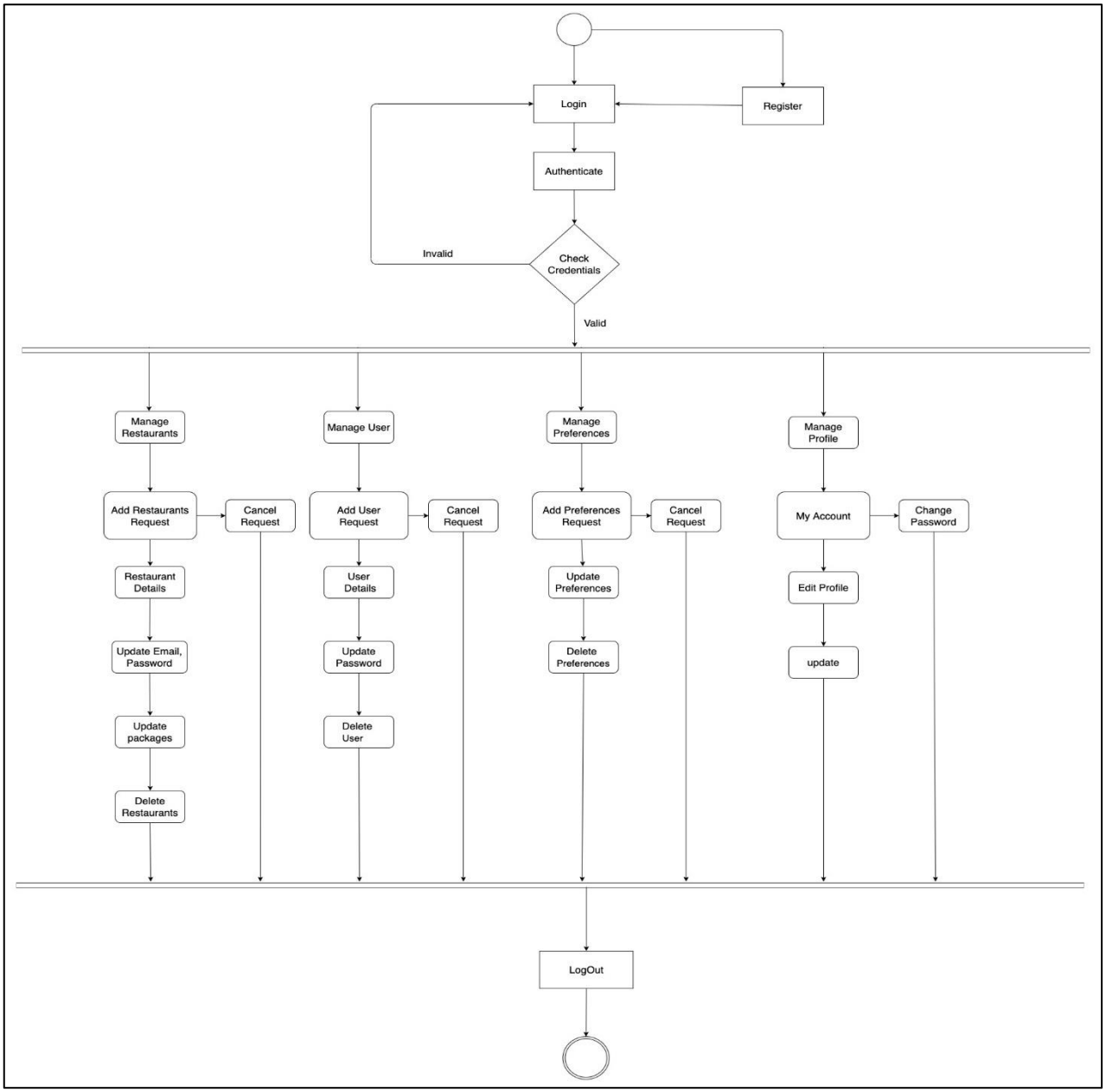


Figure 4.3.1 : Activity diagram

Figure 4.3.2 : Activity diagram


Login
Register
Authenticate
Invalid
Check Credentials
Valid
Manage Restaurants
Manage User
Manage Preferences
Manage Profile
Add Restaurants Request
Cancel Request
Add User Request
Cancel Request
Add Preferences Request
Cancel Request
My Account
Change Password
Restaurant Details
User Details
Update Preferences
Edit Profile
Update Email, Password
Update Password
Delete Preferences
update
Update packages
Delete User
Delete Restaurants
LogOut

Class Diagram

The class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing and documenting different aspects of a system but also for constructing executable code of the software application. The class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modelling of object oriented systems because they are the only UML diagrams which can be mapped directly with object oriented languages..

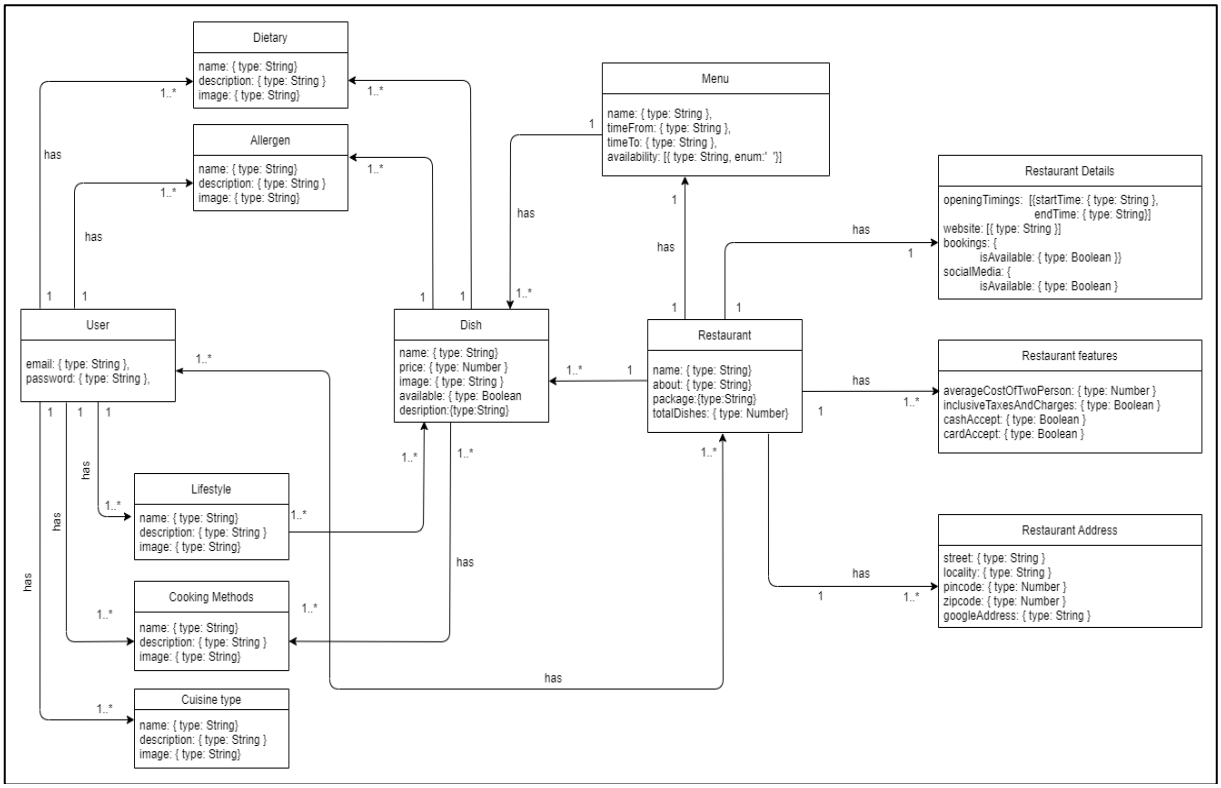


Table 4.4.1 Class Diagram

5.4 Entity-Relationship Diagram

6. System Design

6.1 Input Design
6.2 Output Design

6.3 Input design

❖ Admin side input design

Snapshots

Splash Screen

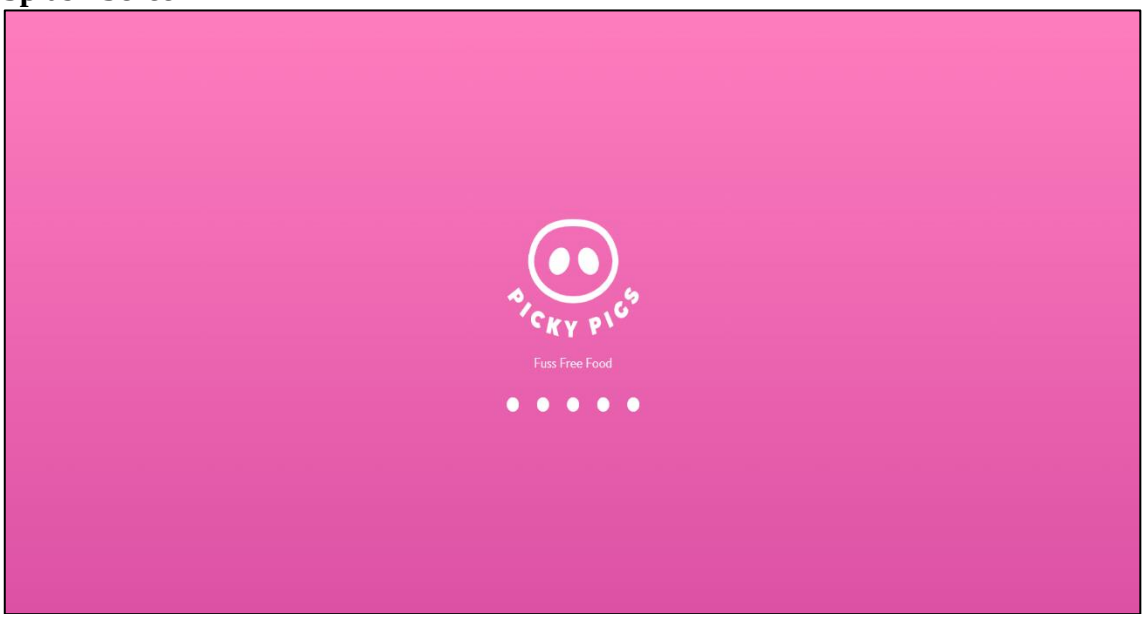


Figure 5.1 Splash Screen

- **Sign Up Page**

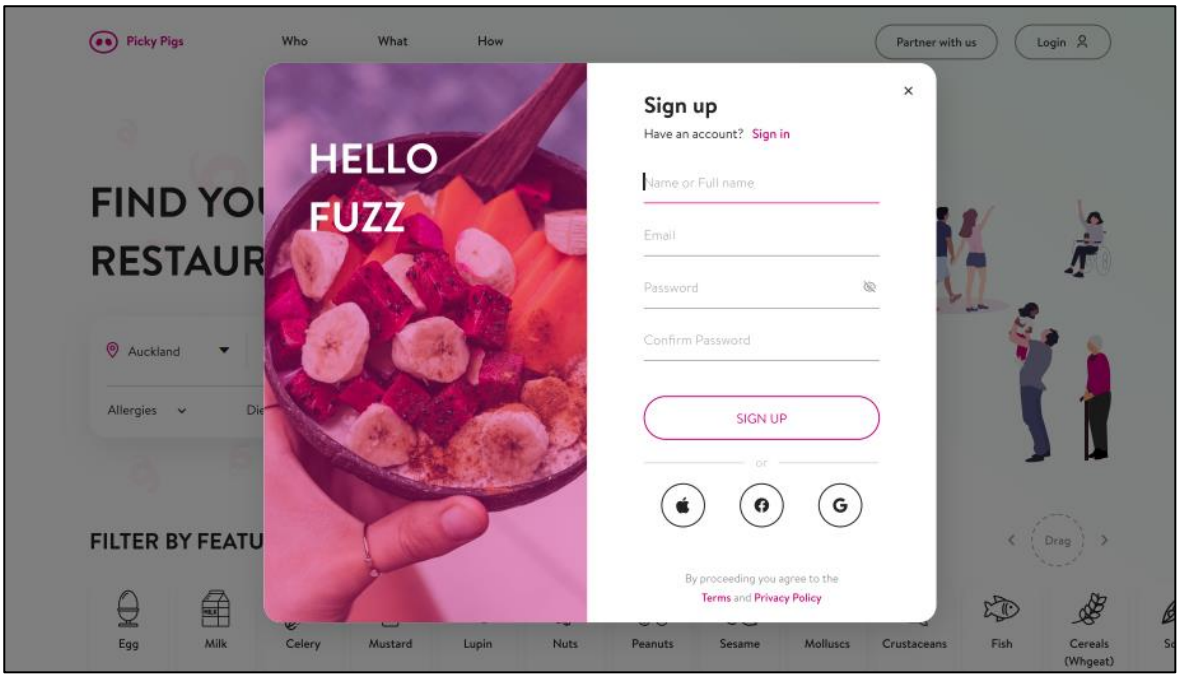


Figure 5.2 Sign Up Page

Figure shows User can sign up the through this page in the pickypicks by providing their basic information and logged in into the website and access full functionalities of the website.

- **Sign In Page**

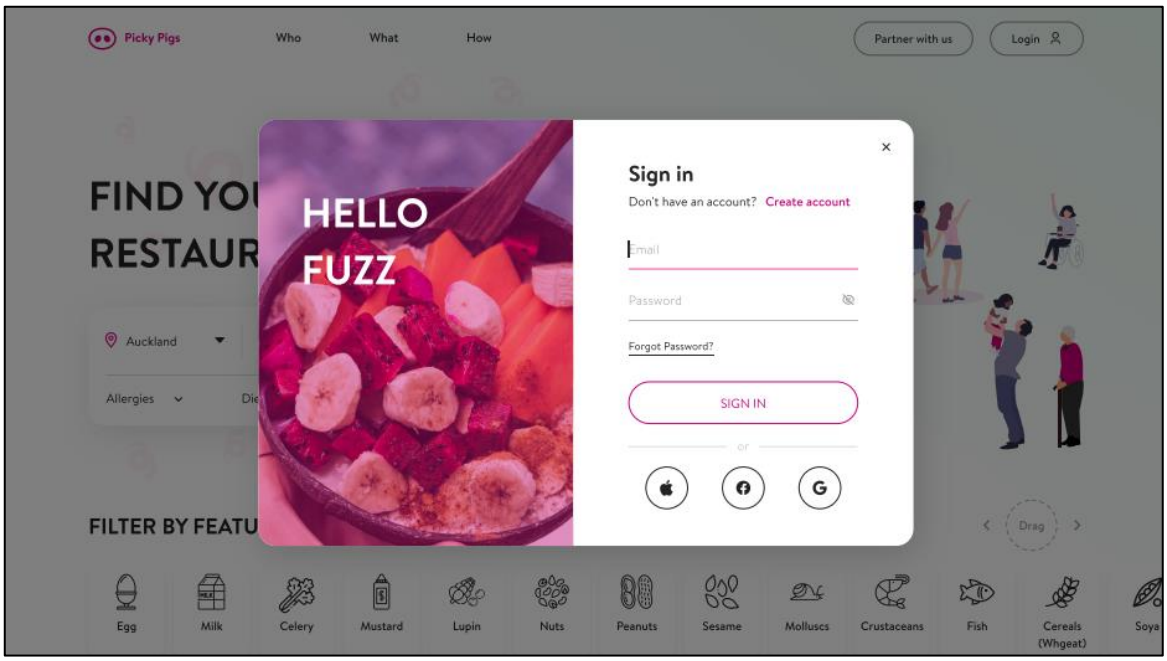


Figure 5.3 Sign In Page

Figure shows User can sign in the through this page in the pickypicks and logged in into the website and access full functionalities of the website.

➢ **Home Page**

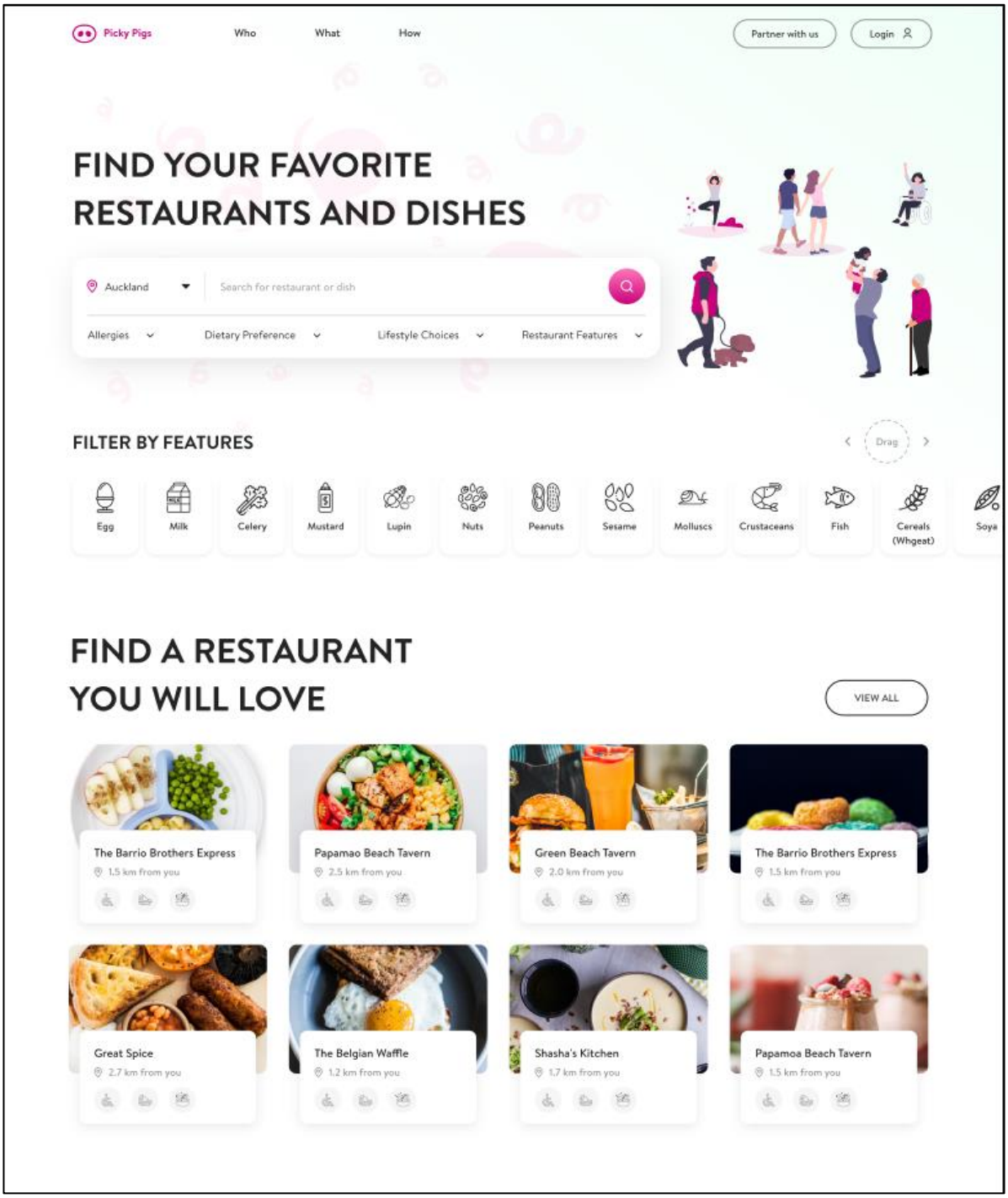


Figure 5.4.1 Home Page

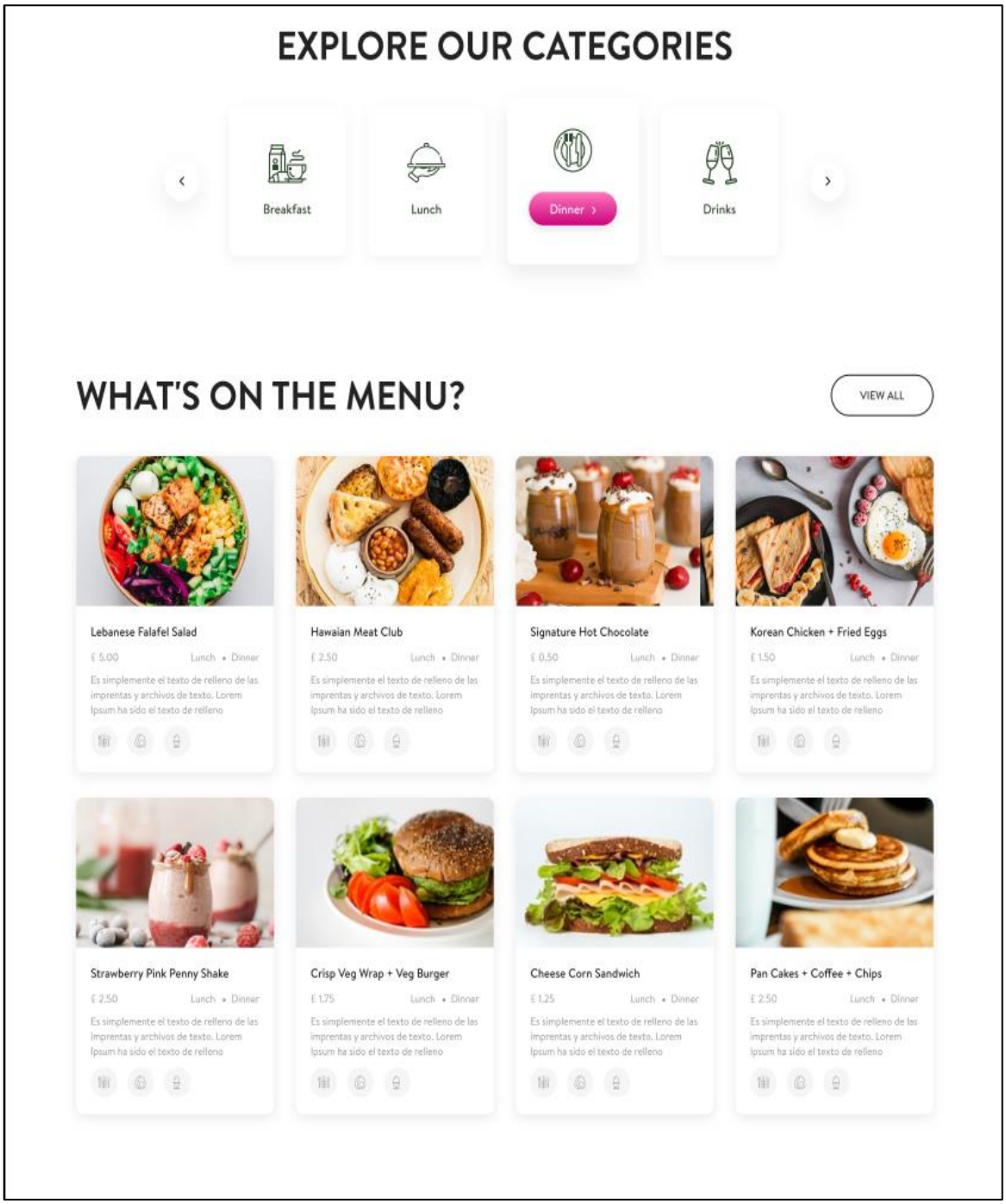


Figure 5.4.2 Home Page

Figure shows the homepage of the website where users can find various things as per choices.

- **Search categories**

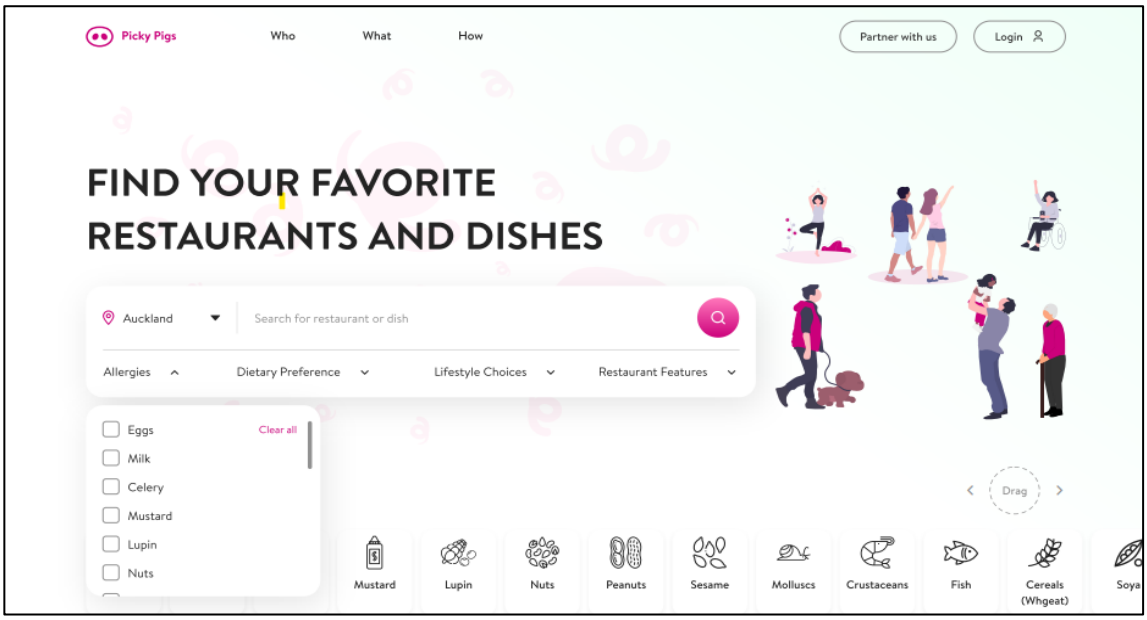


Figure 5.5 Search Categories

Figure shows the homepage of the website where users can find dishes, restaurant on the choices made in the preference section.

- **Forget Password**

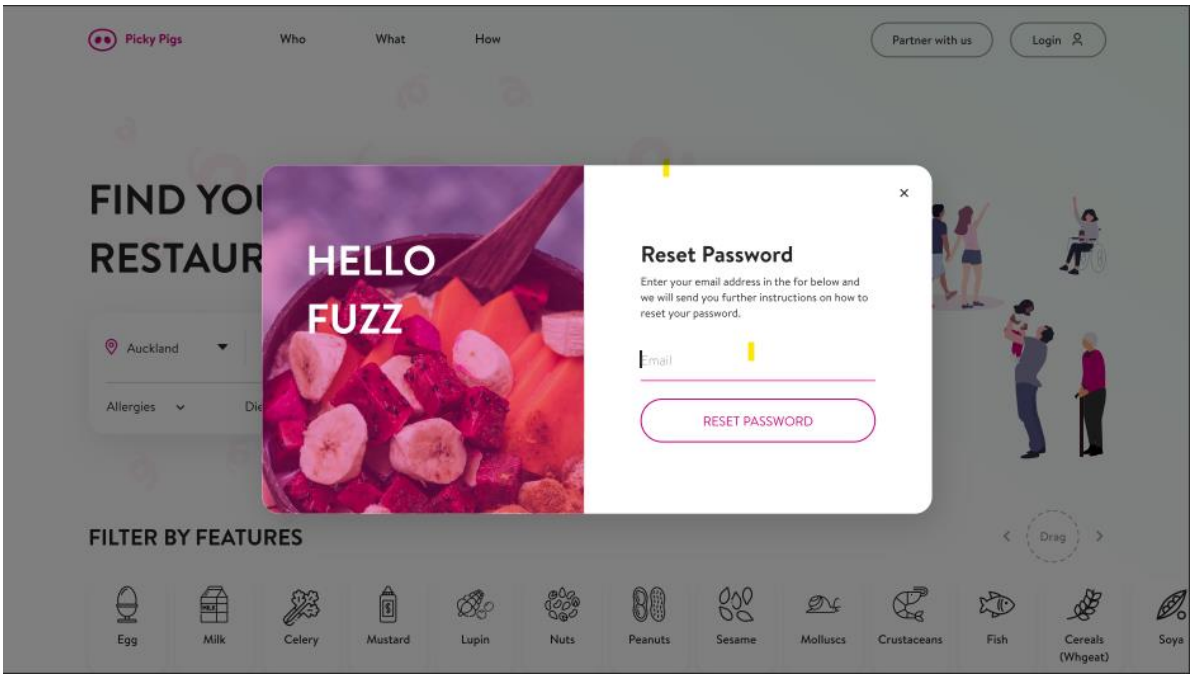


Figure 5.6 Sign In Page

Figure shows the Forgot Password screen using which the user can request a new Password and on successful verification change to new one.

- **All Restaurant Page**

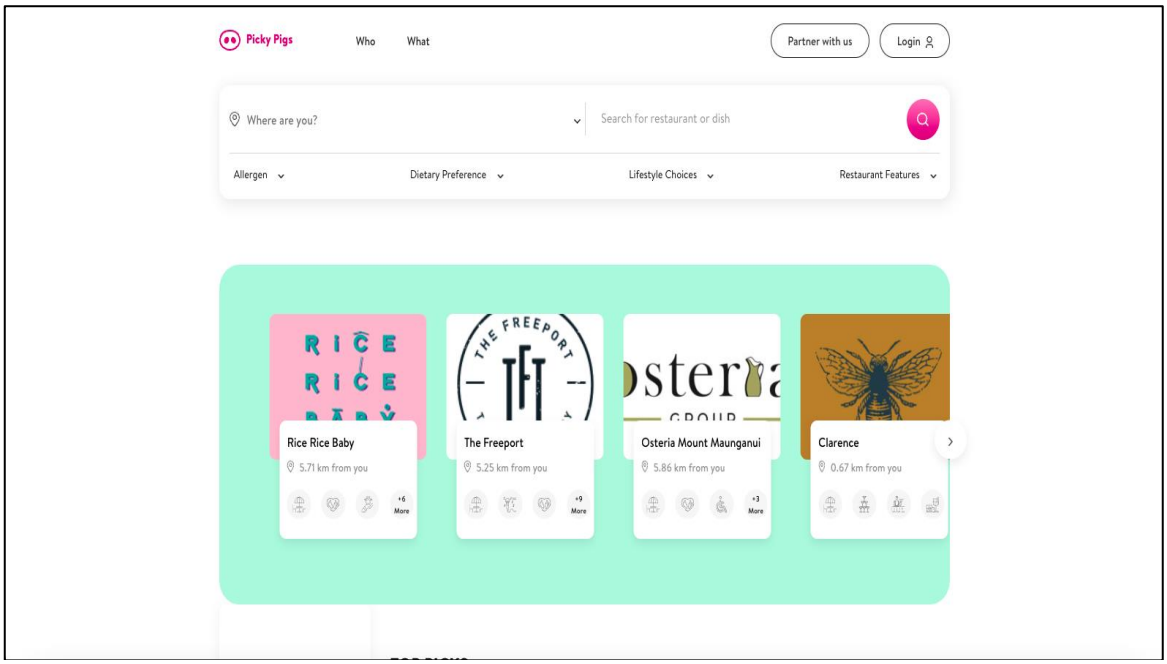


Figure 5.7.1 All Restaurant Page

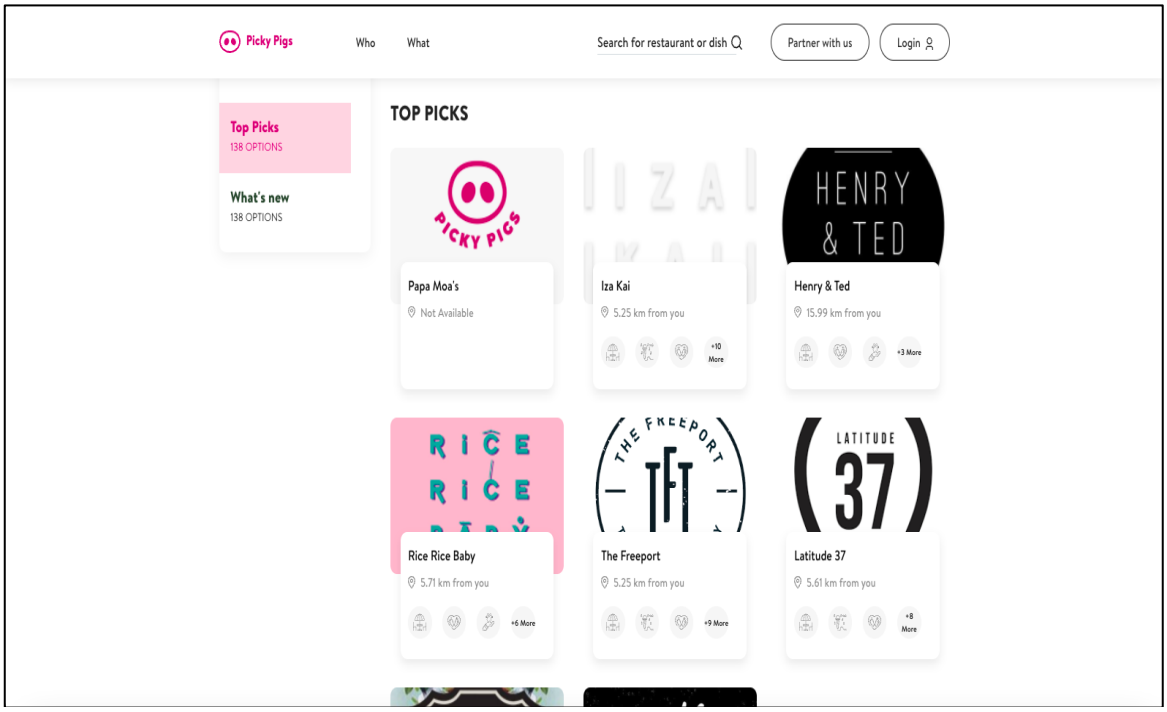


Figure 5.7.2 All Restaurant Page with Top Picks

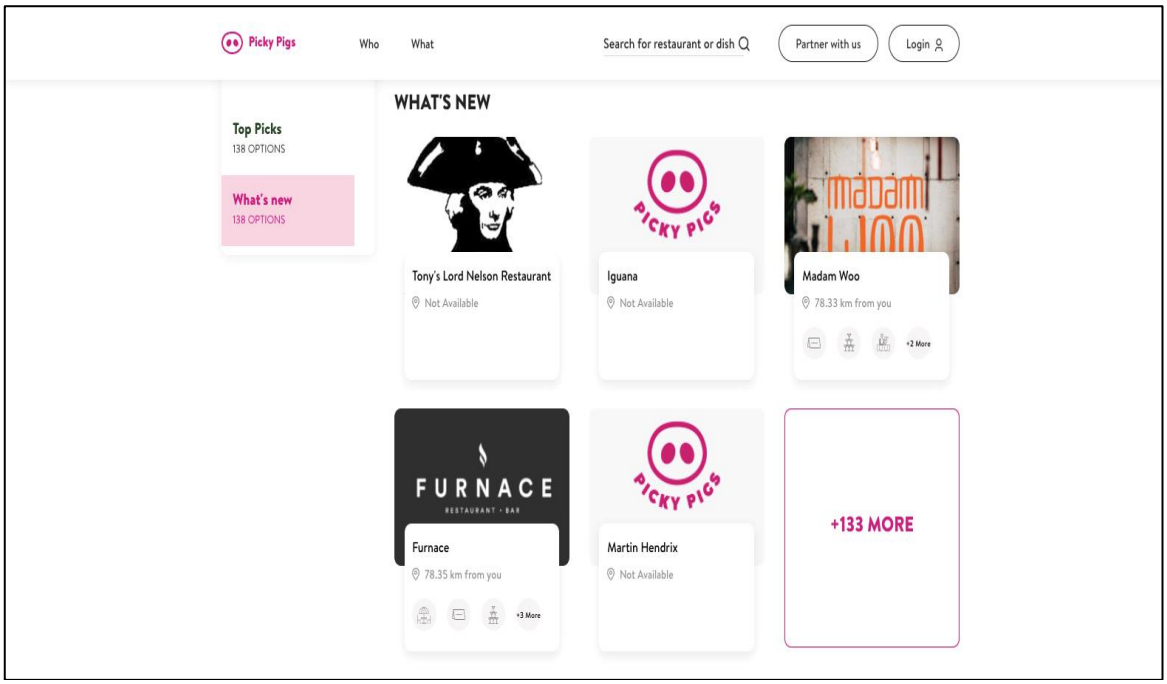


Figure 5.7.1 All Restaurant Page with Latest Restaurants

Figure shows the All the restaurant available in the website . User can choose from the all restaurant page by its own or on the basis of the top picks and the newest restaurant added on the website by the restaurant owners.

- **Single Restaurant Page**

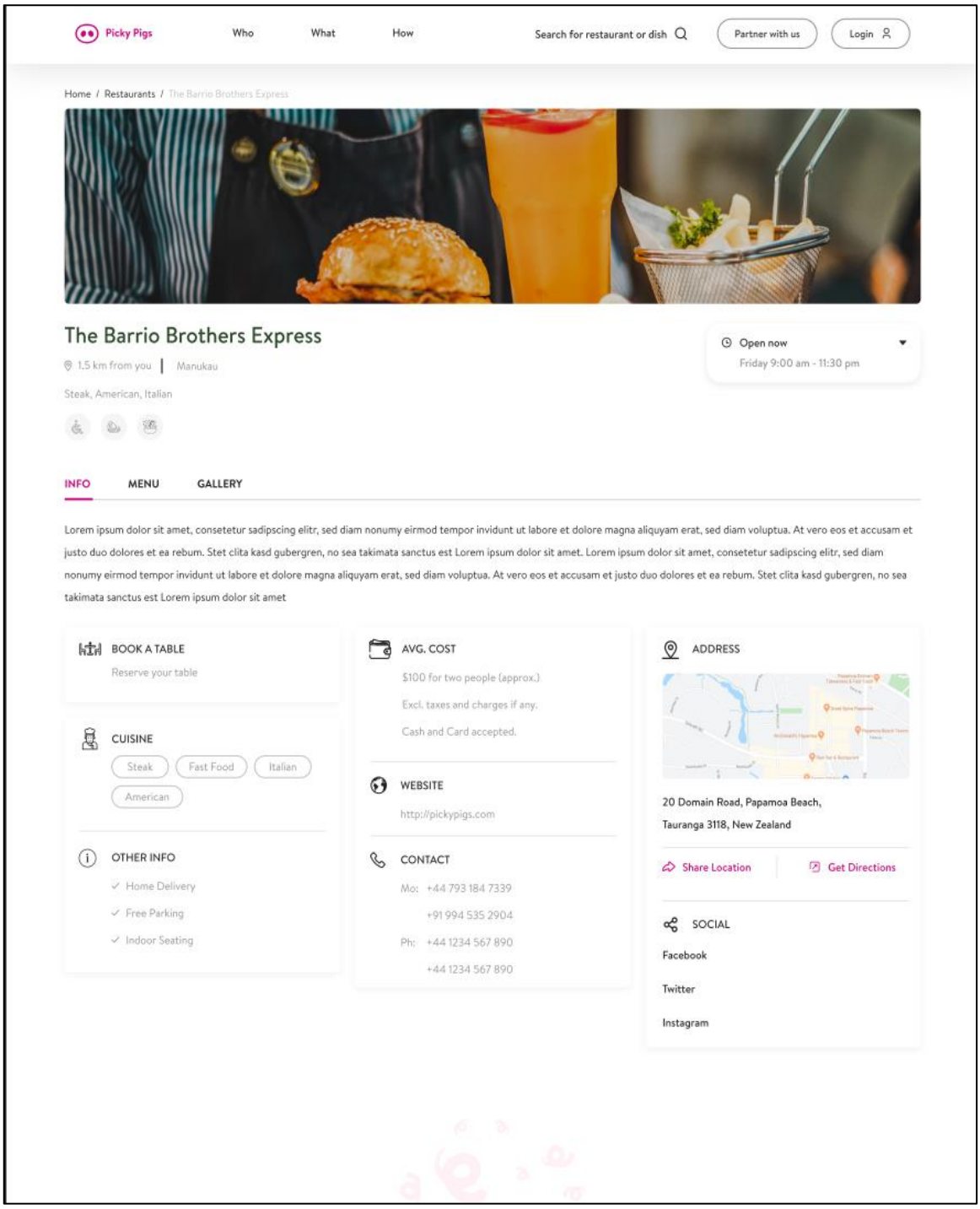


Figure 5.8.1 Single Restaurant Info Page

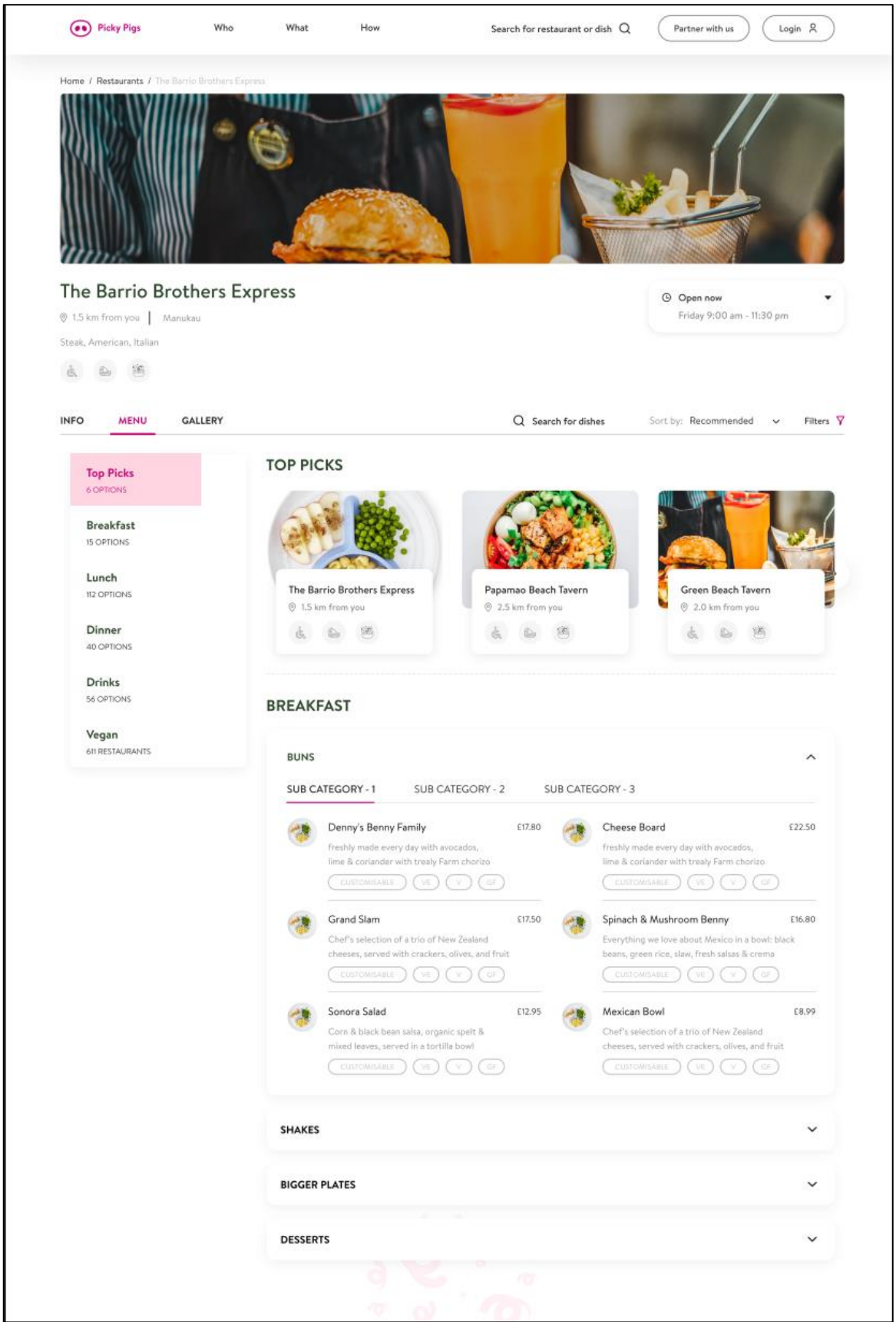


Figure 5.8.2 Single Restaurant Menu Page

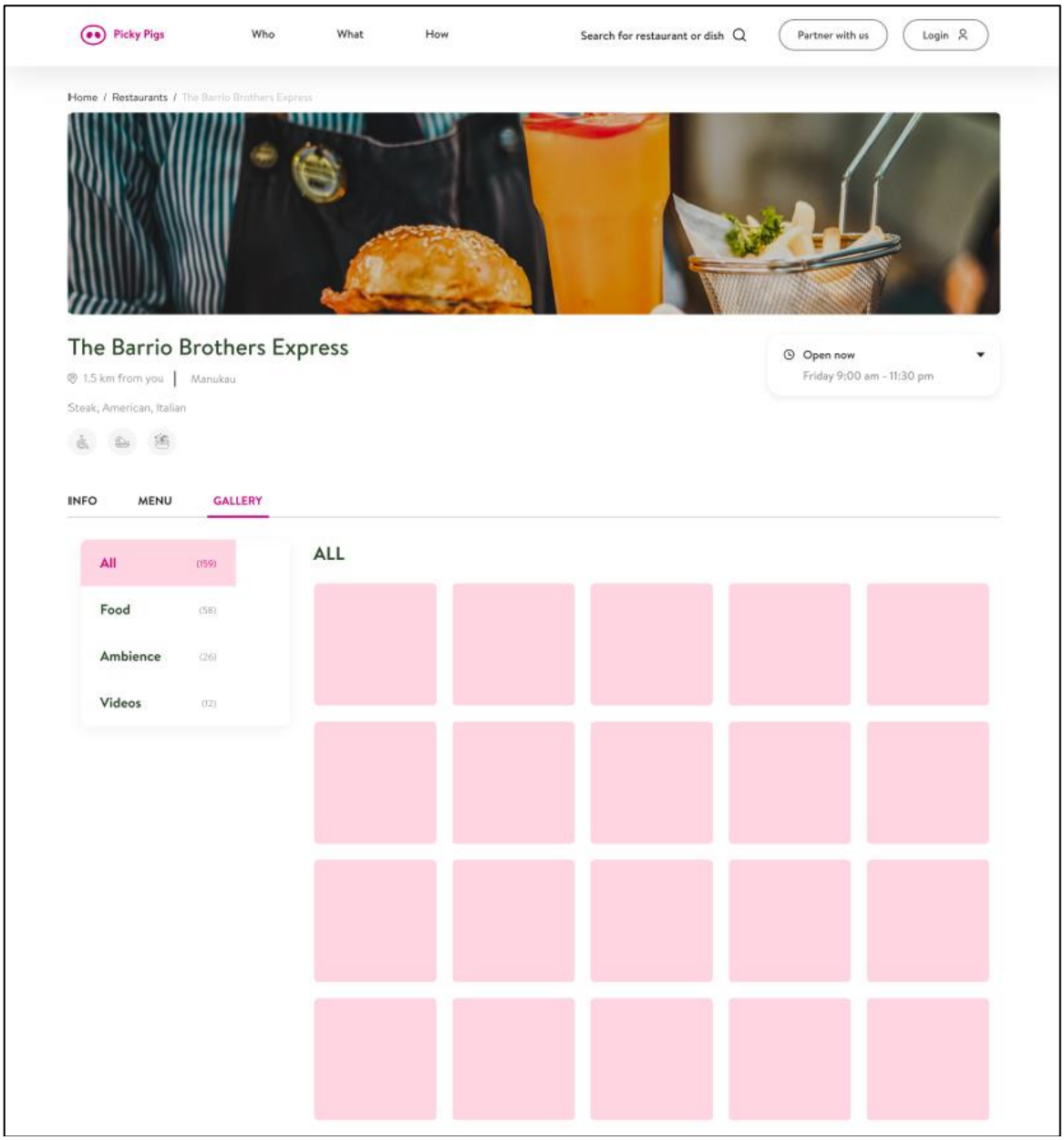


Figure 5.8.3 Single Restaurant Gallery Page

Figure shows the the single restaurant which user choosen . User can see the info page where all the information such as contact number, social handles are provided. At the menu page user sees the menu of various days along with todays and at the gallery section all the images of the restaurant dishes are uploaded there.

Restaurant User Module

- **Sign Up Page**

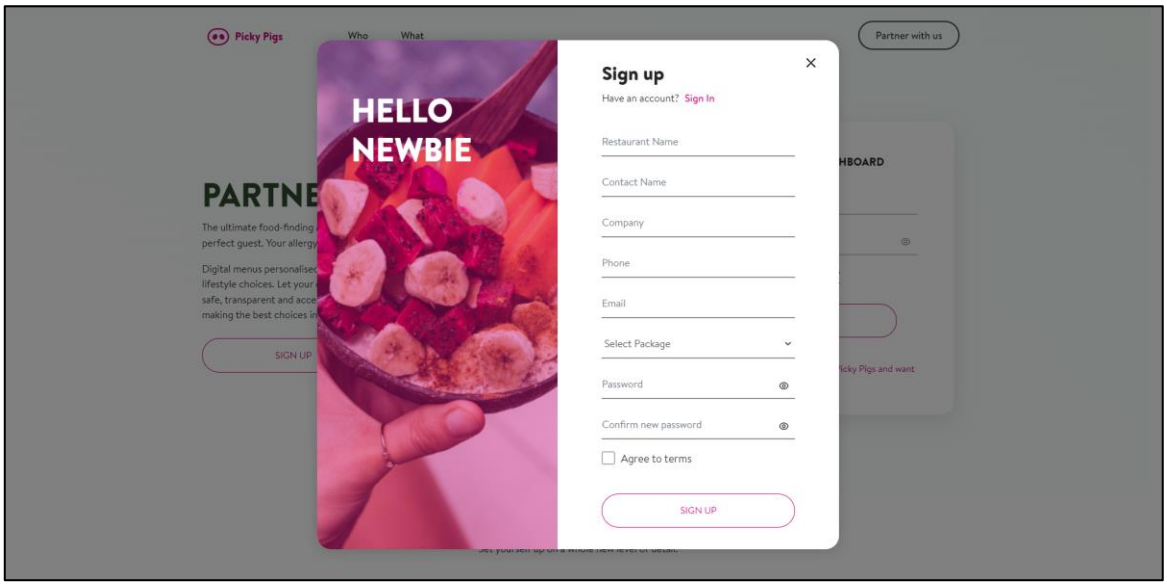


Figure 5.9 Sign Up Page

Figure shows User can sign up the through this page in the pickypicks by providing their basic information and logged in into the website and access full functionalities of the website.

- **Sign In Page**

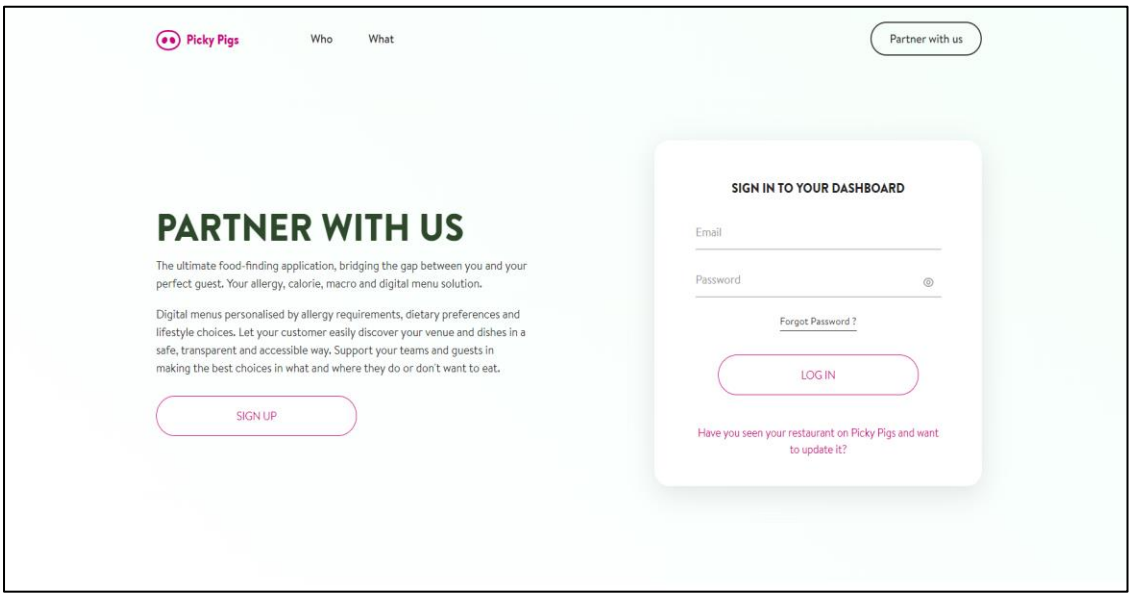


Figure 5.10 Sign In Page

Figure shows User can sign in the through this page in the pickypicks and logged in into the website and access full functionalities of the website.

- **Home Page**

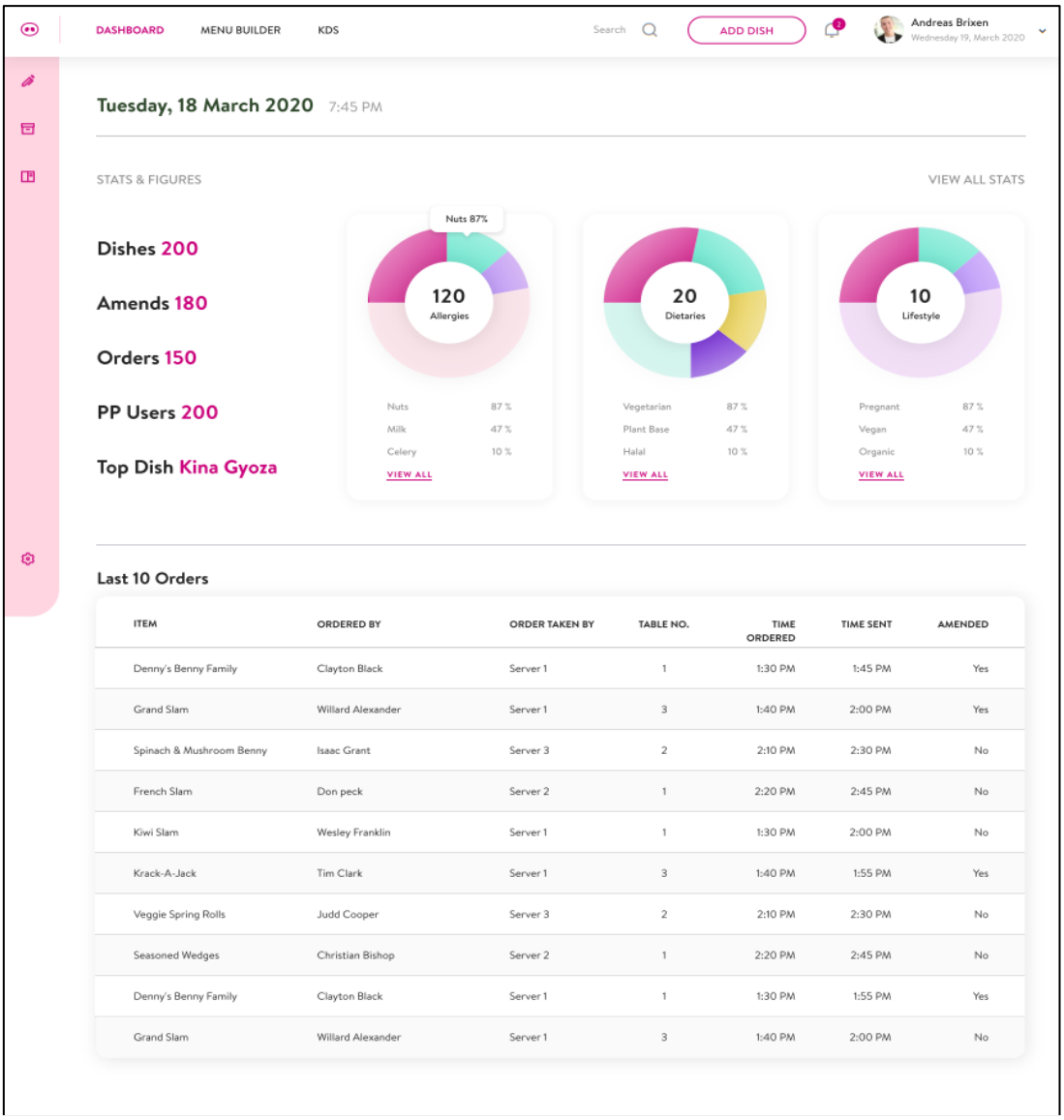


Figure 5.21 Home Page

Figure shows the dashboard of the restaurant user where all the details related to it restaurant is present at the homepage. It show the last ten orders at the restaurants.

- **Manage Menu Page**

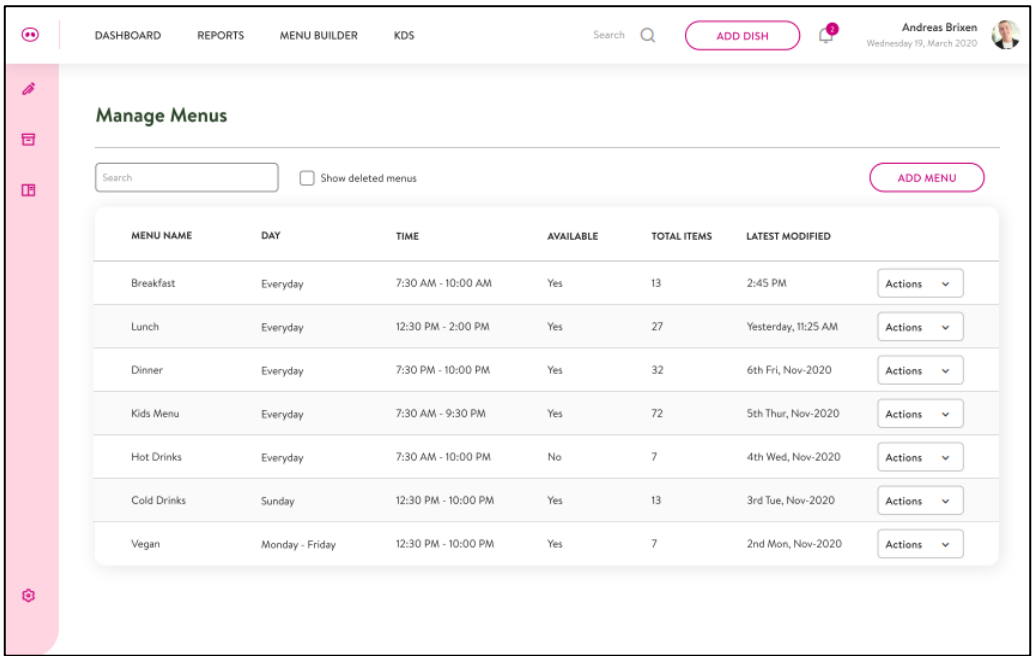


Figure 5.12 Manage Menu Page

Figure shows Restaurant vendor use to manage the menus of the restaurant at particular day.

- **Manage Categories Page**

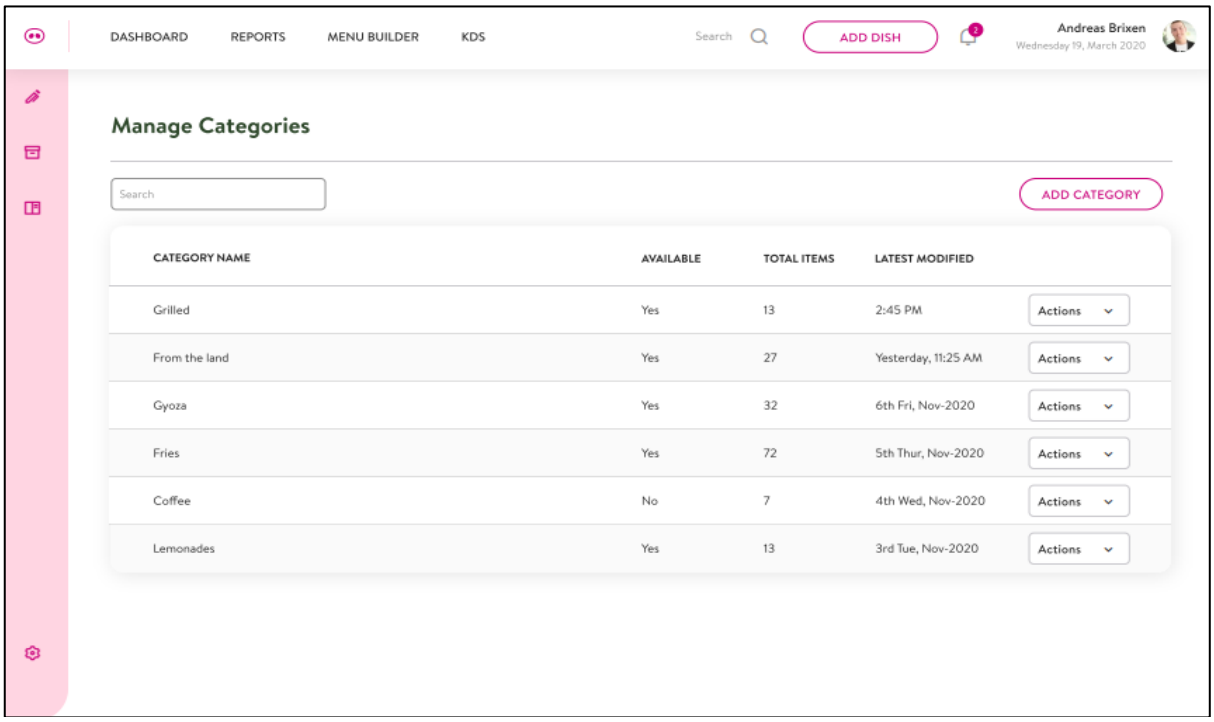


Figure 5.13 Manage Categories Page

Figure shows Restaurant vendor use to manage the categories of the dishes at their restaurant .

- **Manage Sub Categories Page**

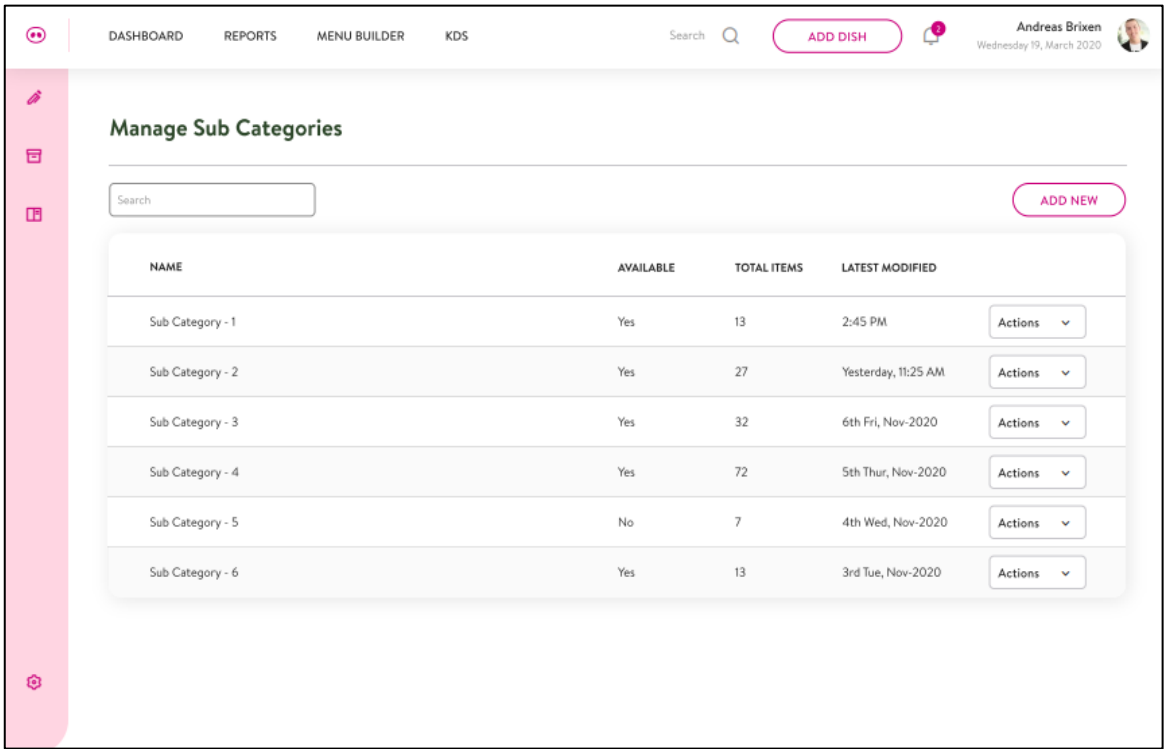


Figure 5.14 Manage Sub Categories Page

Figure shows Restaurant vendor use to manage the sub categories in the category of the dishes at their restaurant .

- **Manage Dishes Page**

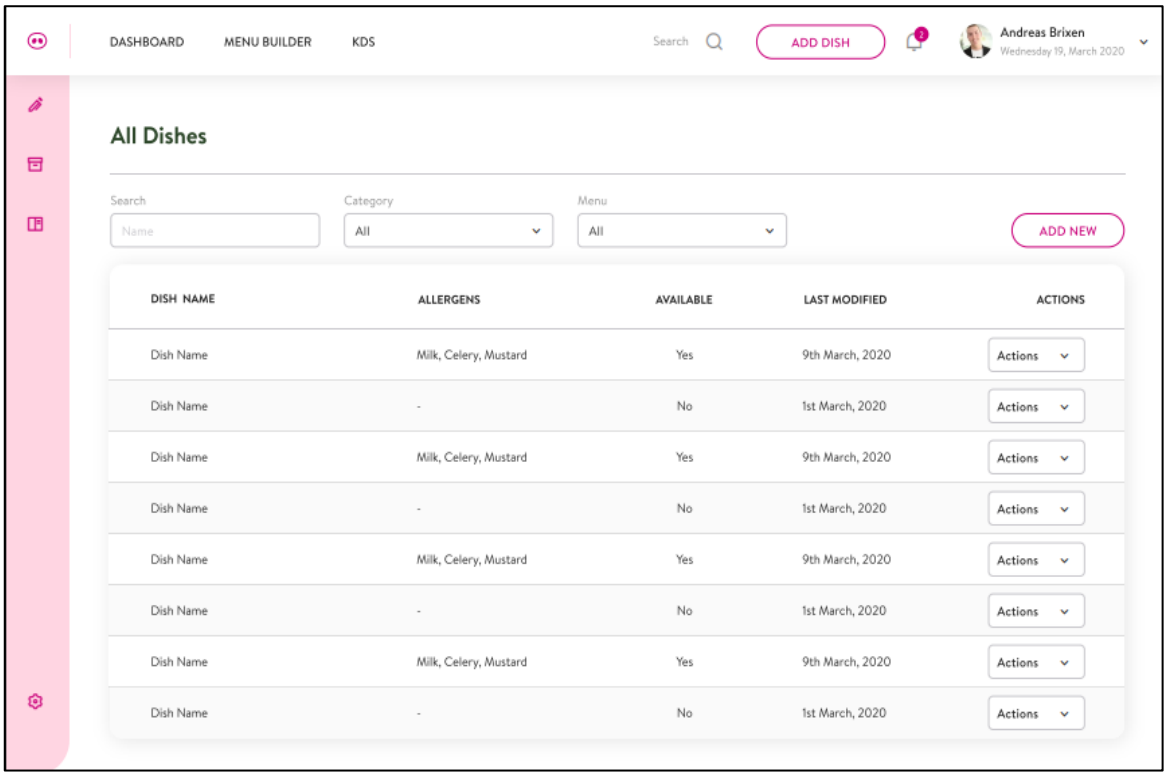


Figure 5.15 Manage Dishes Page

Figure shows Restaurant vendor use to manage the dishes like adding new dishes, deleting dishes , adding in the menus section ,updating is done by the restaurant owner .

➢ **Manage Dish Upload Page**

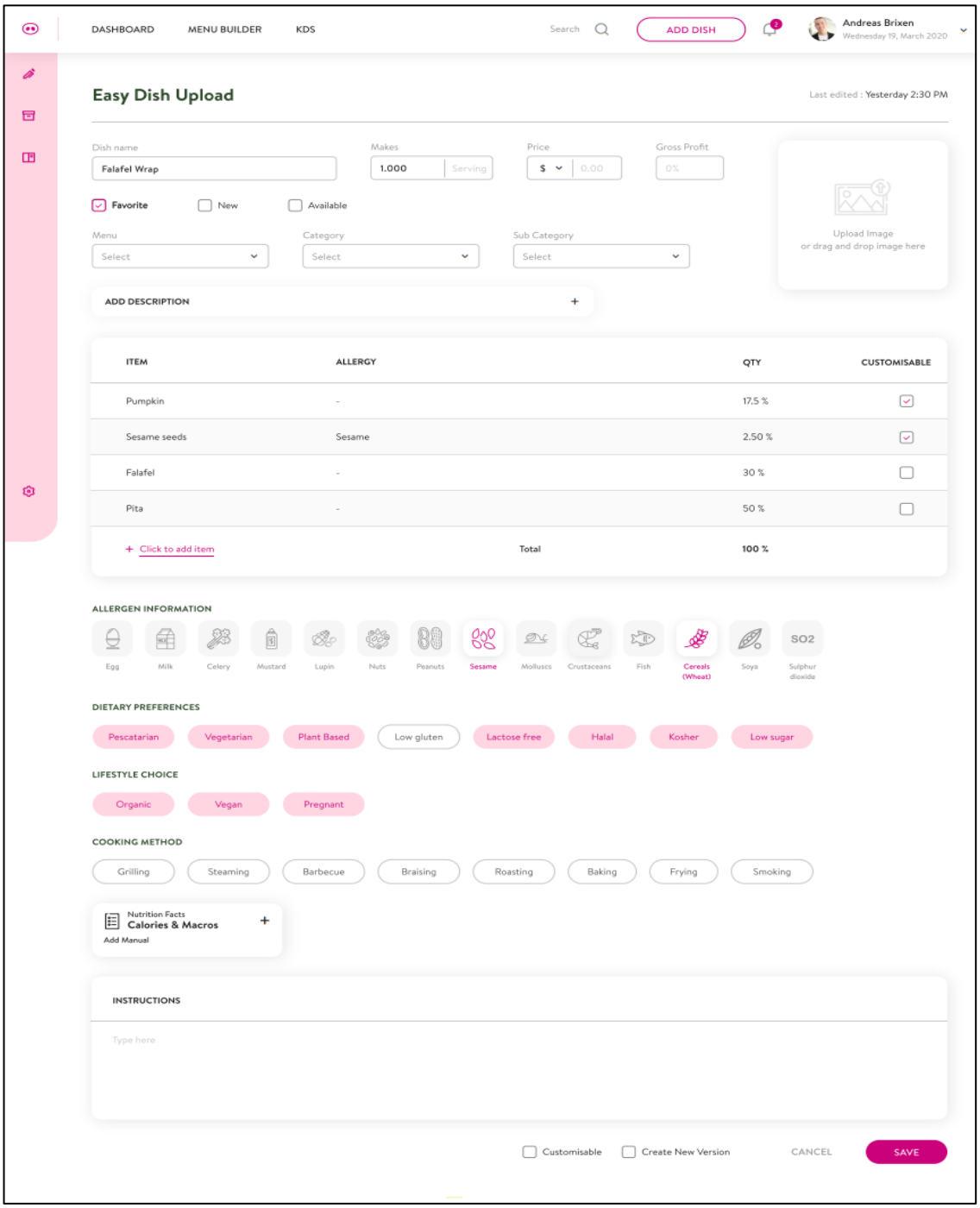


Figure 5.16 Manage Dish Upload Page

Figure shows Restaurant vendor use to manage the particular new dish by adding information about dish such name, Description, Allegen information,cooking method, Nutritions facts and more are done by the restaurant owner .

- **Restaurant Information Page**

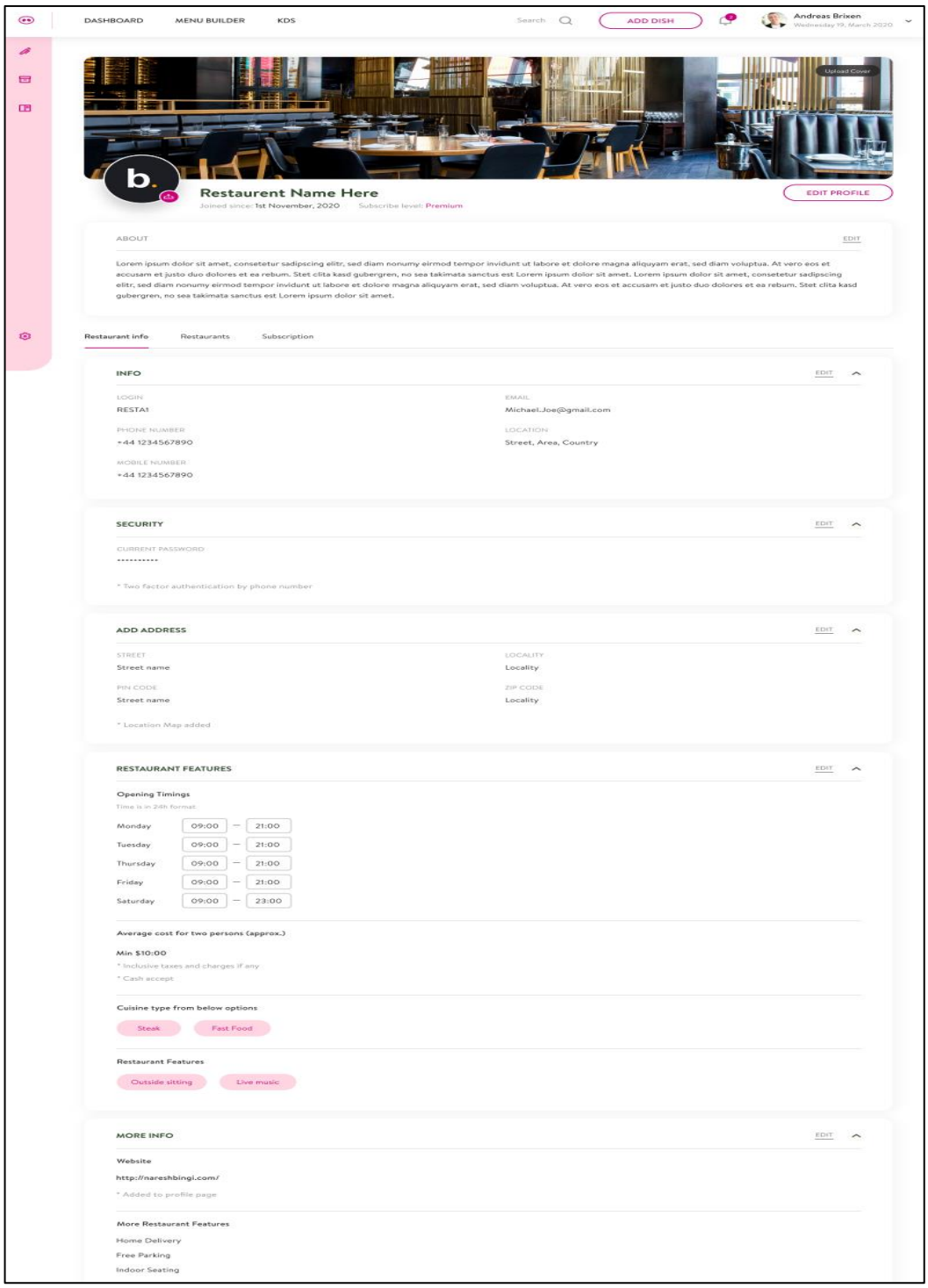


Figure 5.17 Manage Restaurant Information Page

Figure shows Restaurant vendor uses to manage basic information of restaurant along with restaurant address, restaurant features and social media handles are done by the restaurant owner .

Admin User Module

- **Login Page**

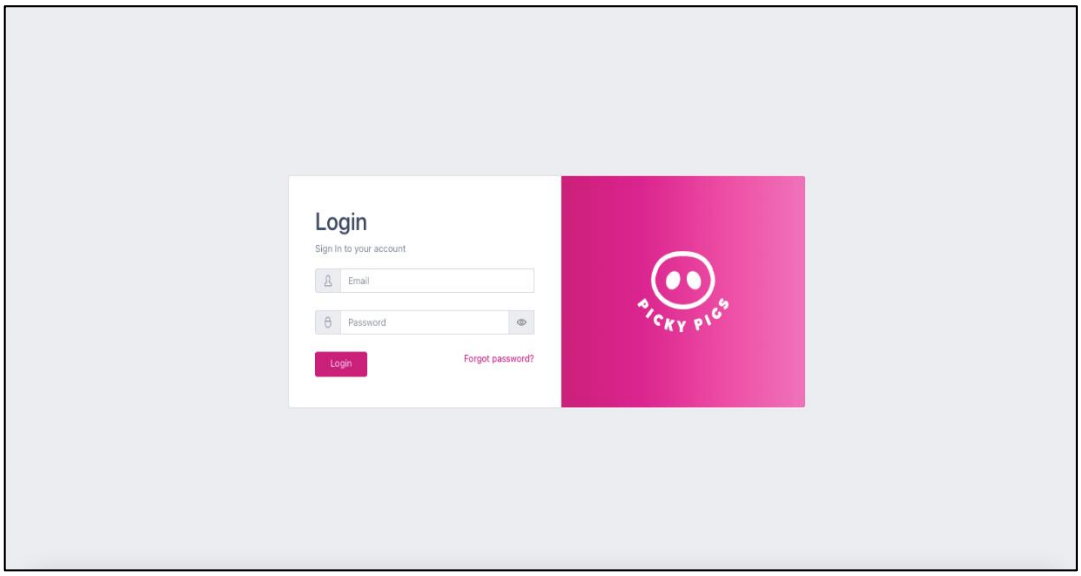
➢ 

Figure 4.18 Login Page

Figure shows the login page for the admin to login in the pickypigs and manage the website.

➢ **Forgot password Page**

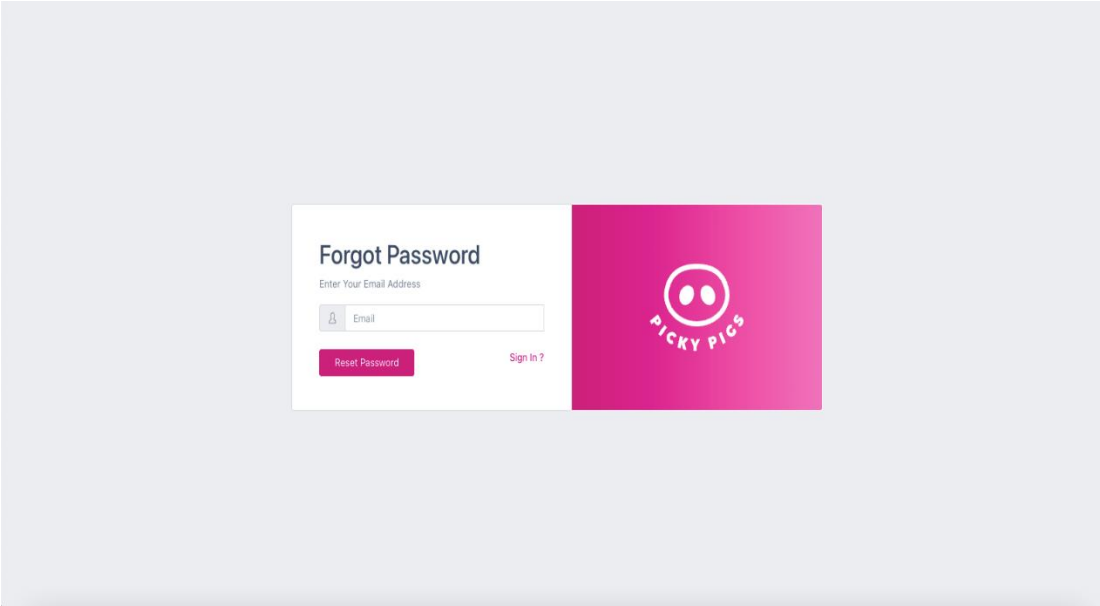


Figure 4.19 Forgot Password Page

Figure shows the login page for the admin to login in the pickypigs and manage the website.

➢ **Home Page**

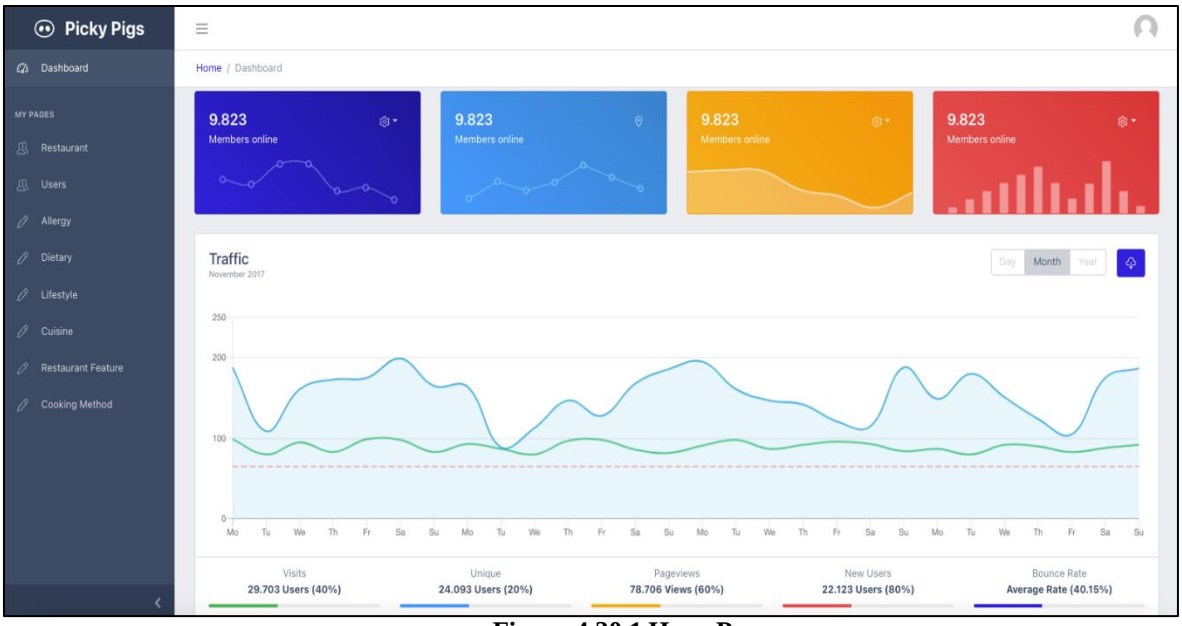


Figure 4.20.1 HomePage

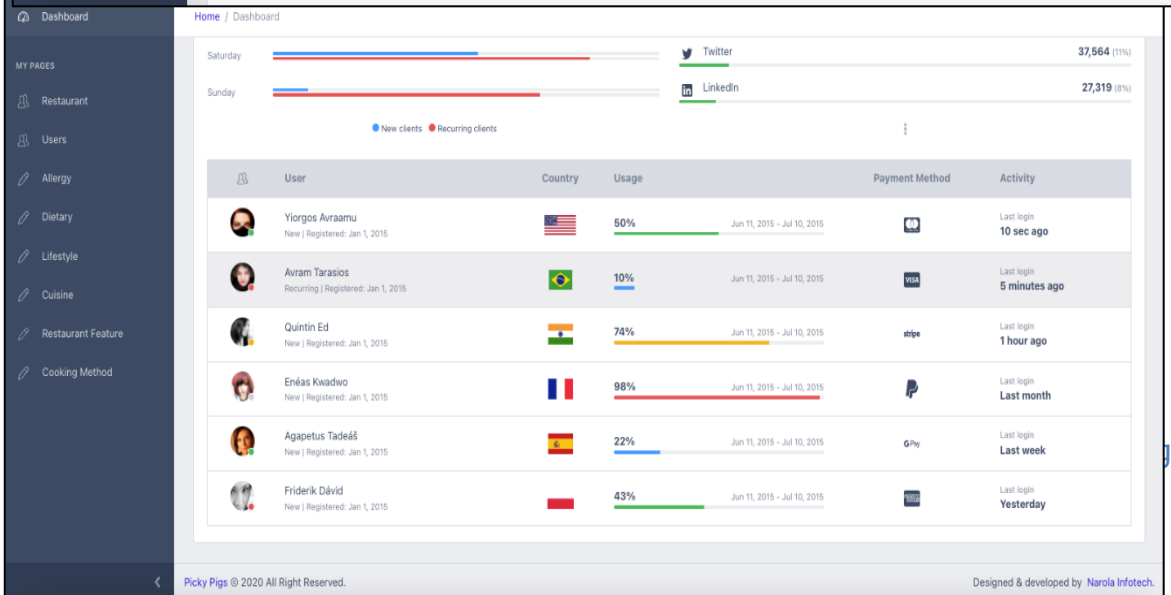


Figure 4.20.2 HomePage

Figure 4.20.3

HomePage

Figure shows the login page for the admin to login in the pickypigs and manage the website.

- **Restaurant Manage Page**

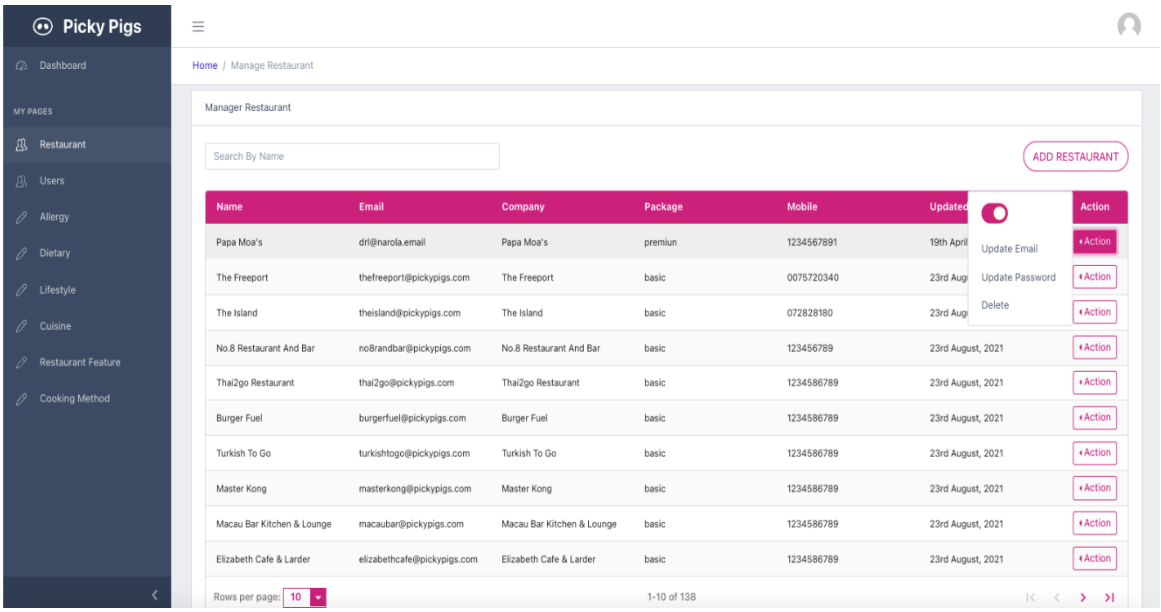


Figure 4.21.1 Restaurant Manage Page

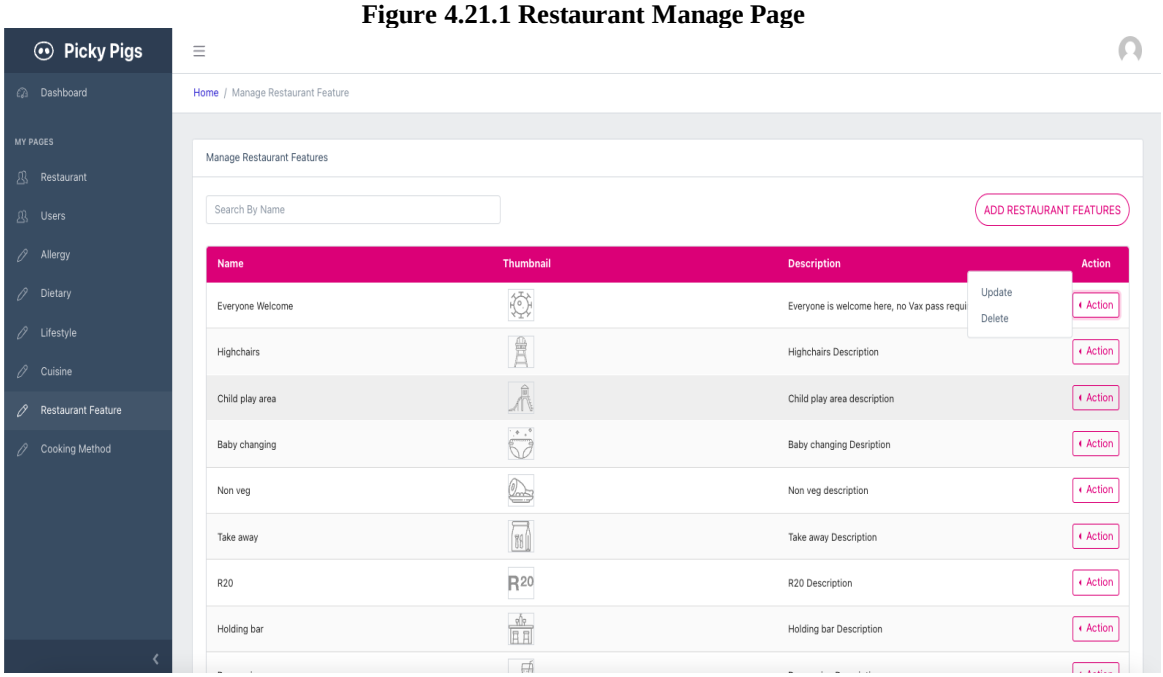


Figure 4.21.2 Restaurant Manage Page

Figure shows the login page for the admin to login in the pickypigs and manage the website.

- **User manage Page**

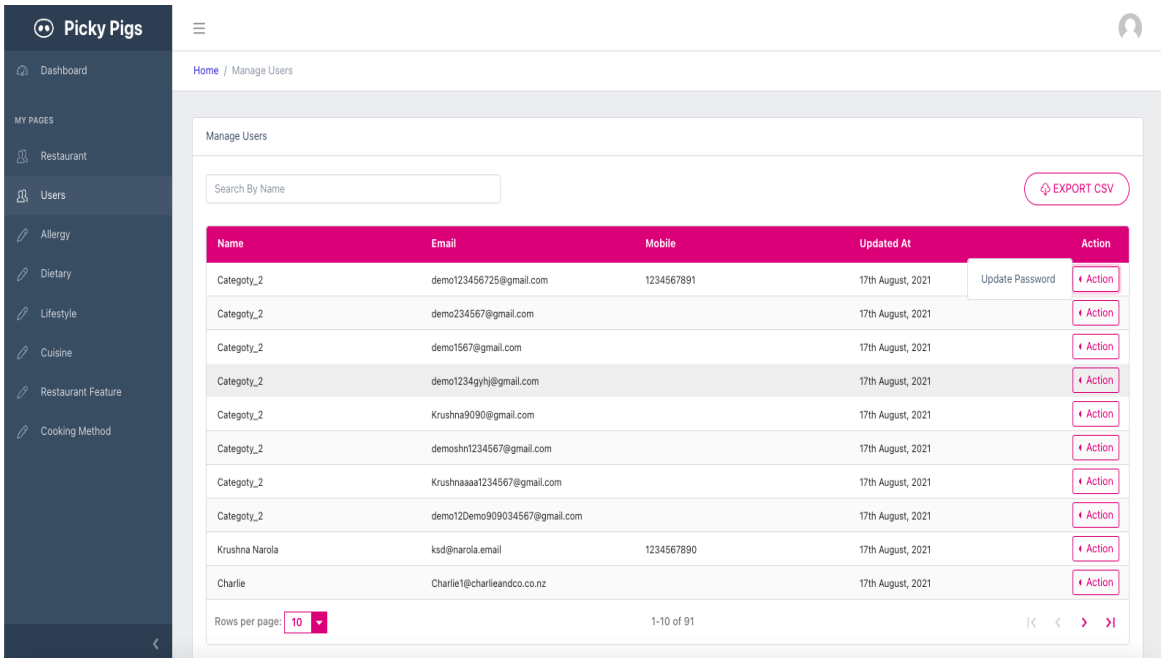


Figure 4.22 User Manage Page

Figure shows the admin can manage the user through this page admin can also update the passwords.

- **Allergy manage Page**

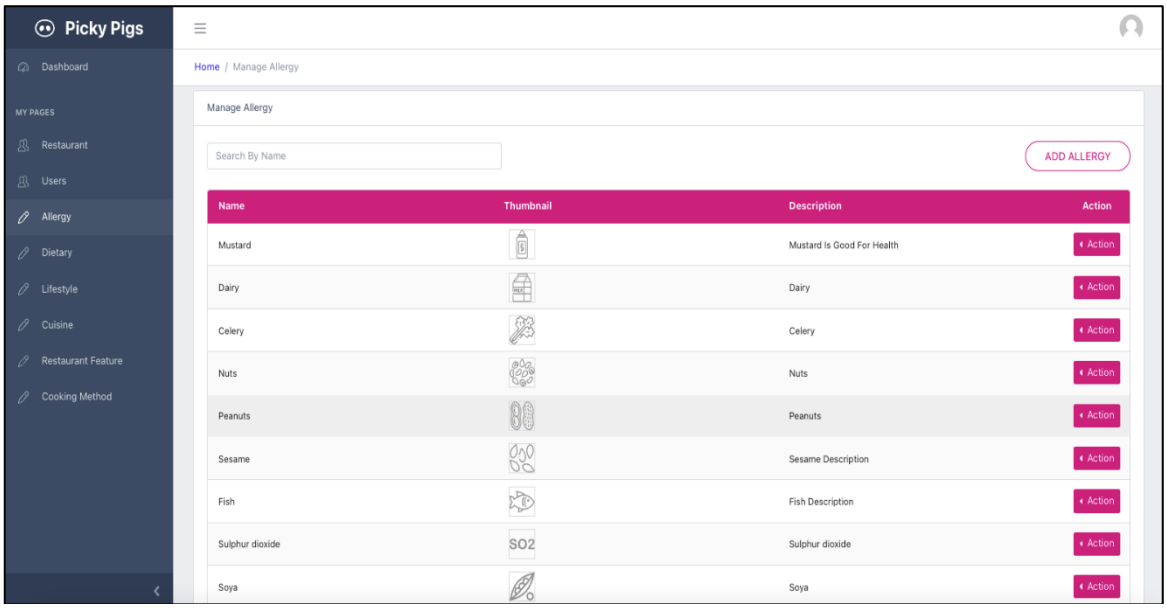


Figure 4.23.1 Allergy Manage Page

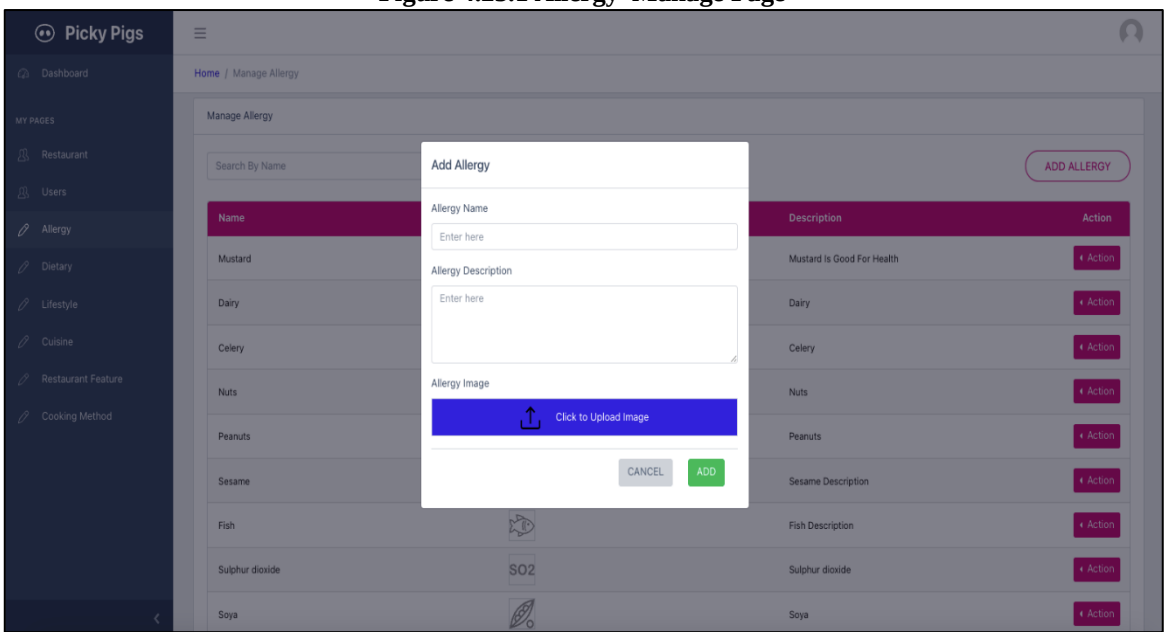


Figure 4.23.2 Allergy Manage Page

Figure shows the admin can manage the allergy through this page admin can also add new allergy and update old ones.

- **Dietary manage Page**

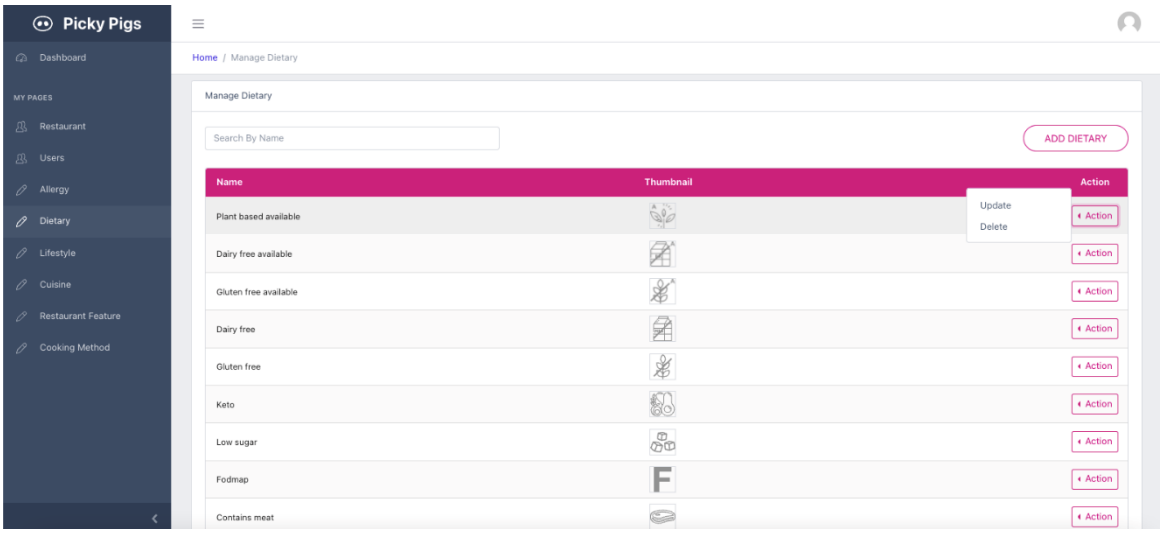


Figure 4.24.1 Dietary Manage Page

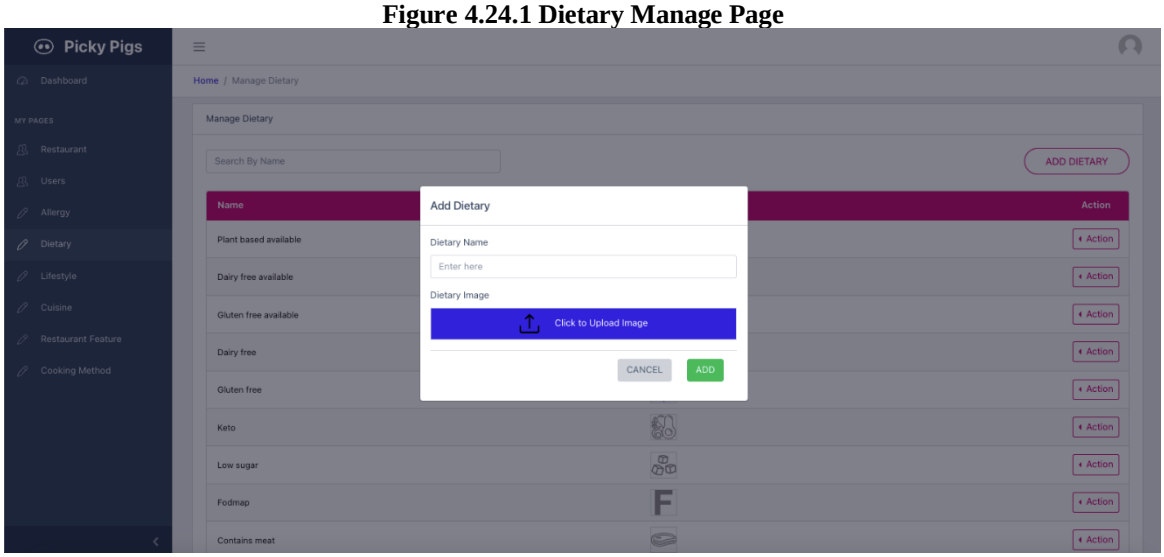


Figure 4.24.2 Dietary Manage Page

Figure shows the admin can manage the dietary through this page admin can also add new dietary and update old ones.

- **Lifestyle Manage Page**

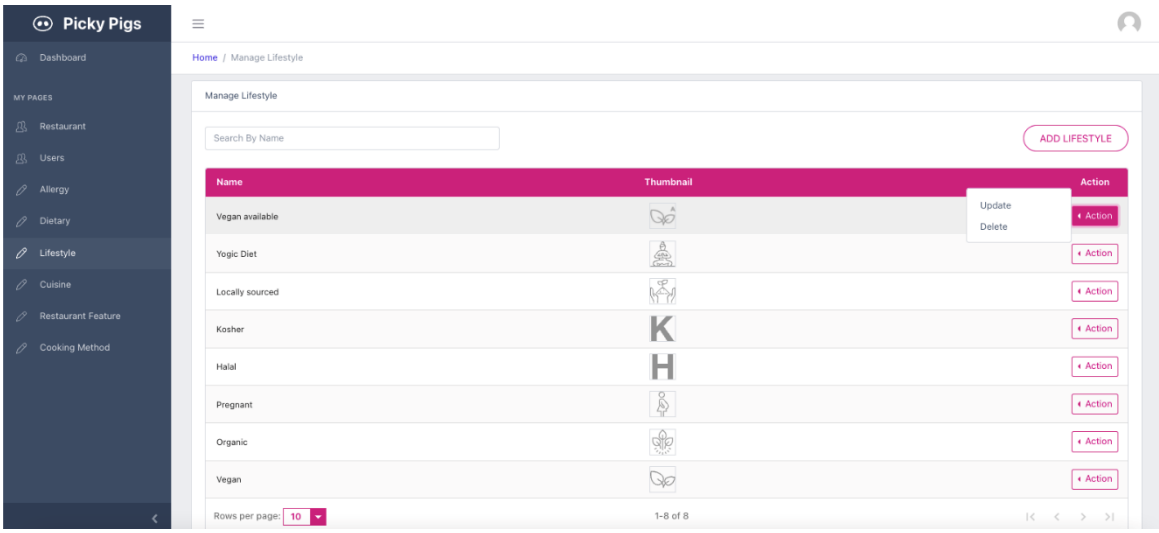


Figure 4.25.1 Lifestyle Manage Page

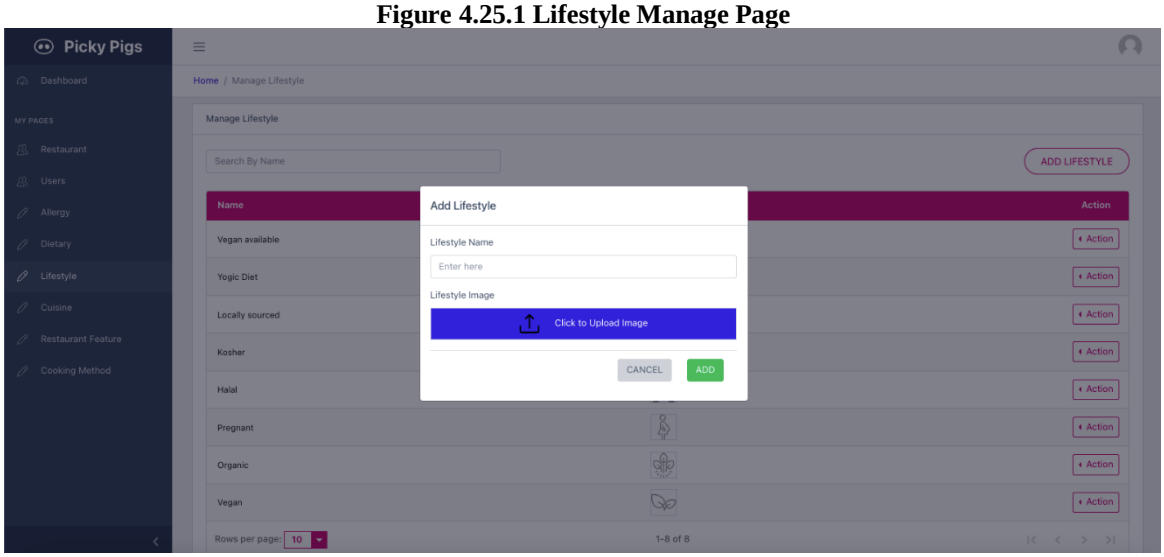


Figure 4.25.2 Lifestyle Manage Page

Figure shows the admin can manage the lifestyle through this page admin can also add new lifestyle and update old ones.

- **Cuisine Manage Page**

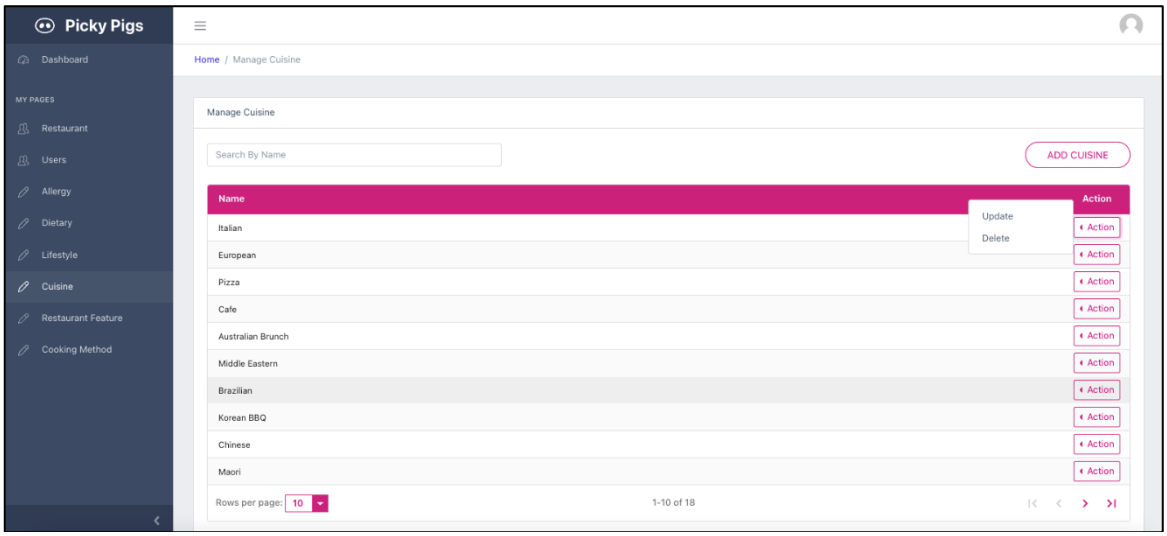


Figure 4.26.1 Cuisine Manage Page

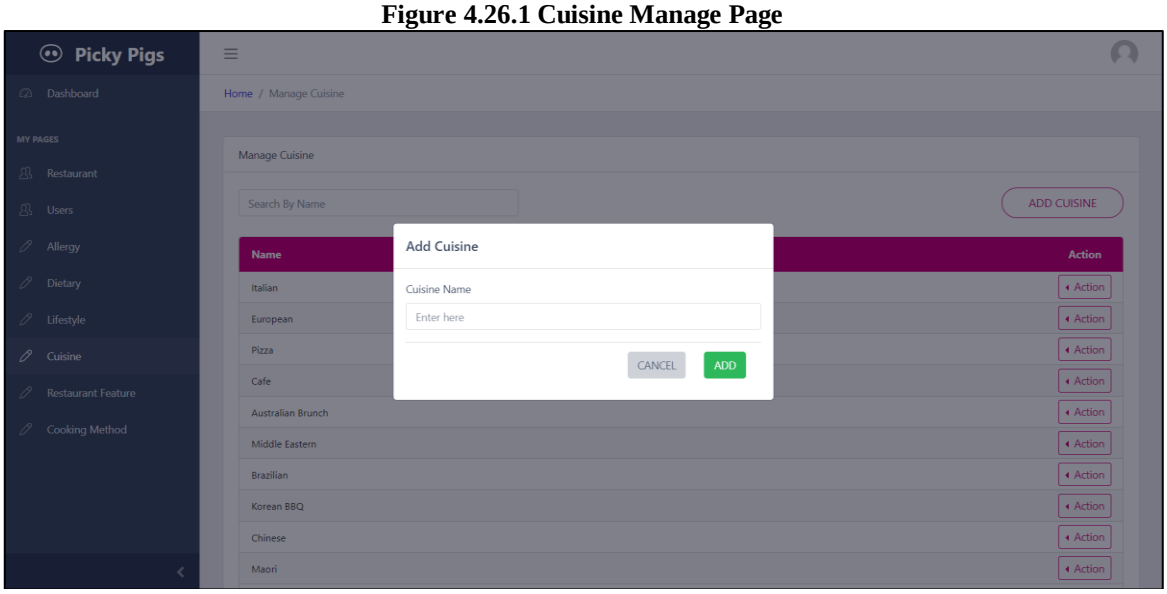


Figure 4.26.2 Cuisine Manage Page

Figure shows the admin can manage the Cuisine through this page admin can also add new Cuisine and update old ones.

- **Restaurant Feature Manage Page**

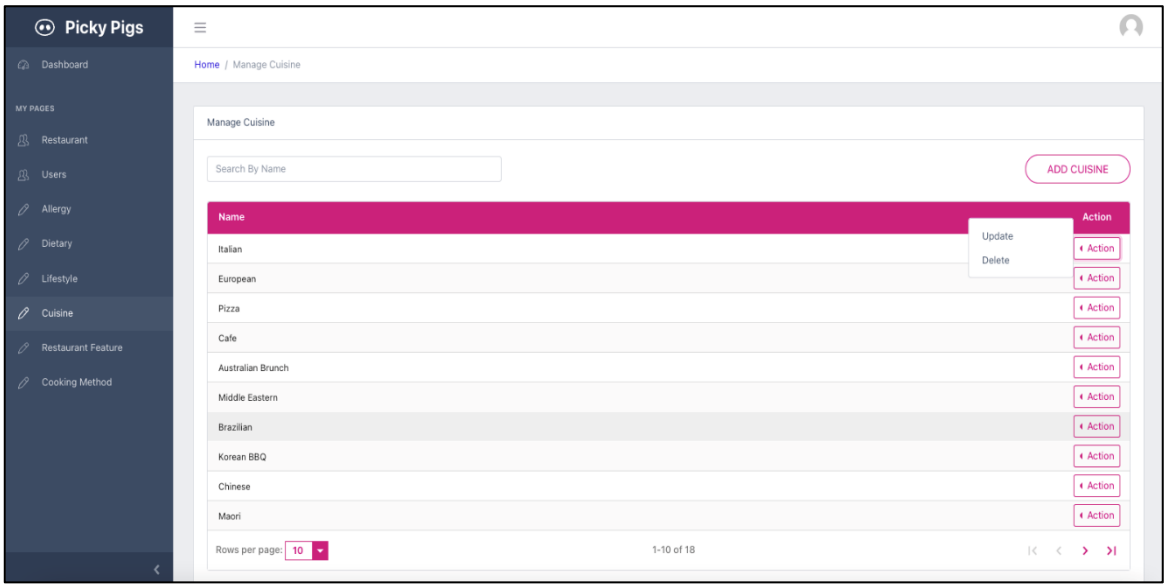


Figure 4.27.1 Restaurant Feature Manage Page

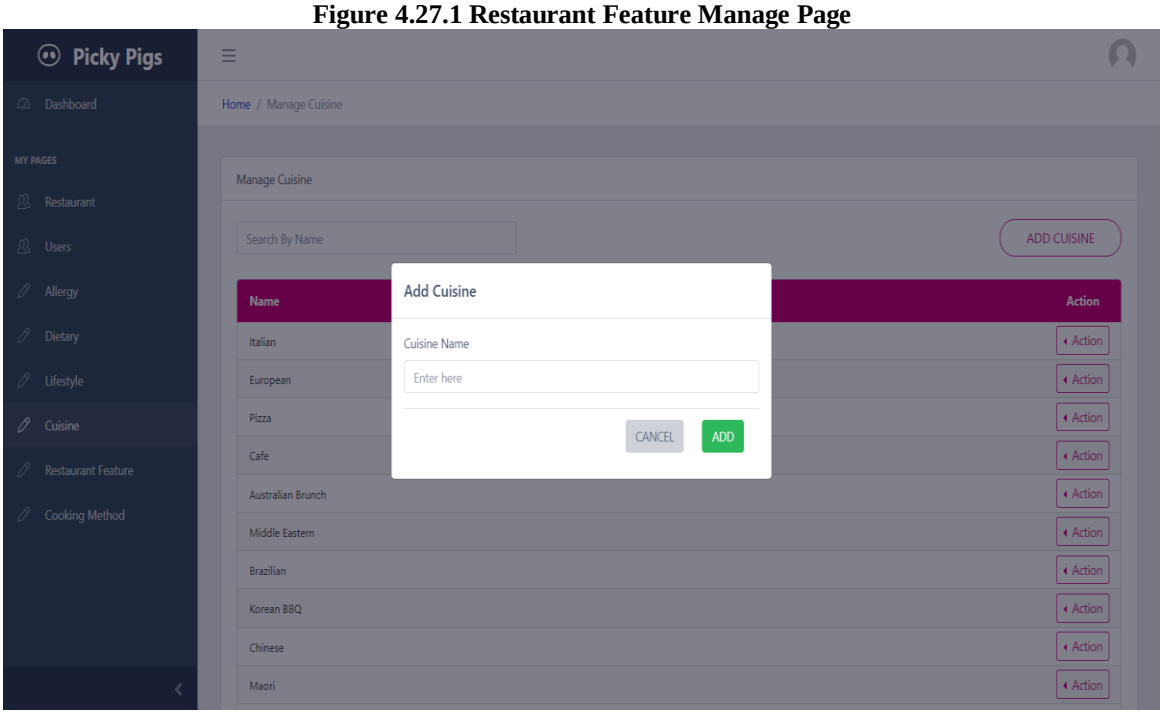


Figure 4.27.2 Restaurant Feature Manage Page

Figure shows the admin can manage the Restaurant Feature through this page admin can also add new Restaurant Feature and update old ones.

- **Cooking Method Manage Page**

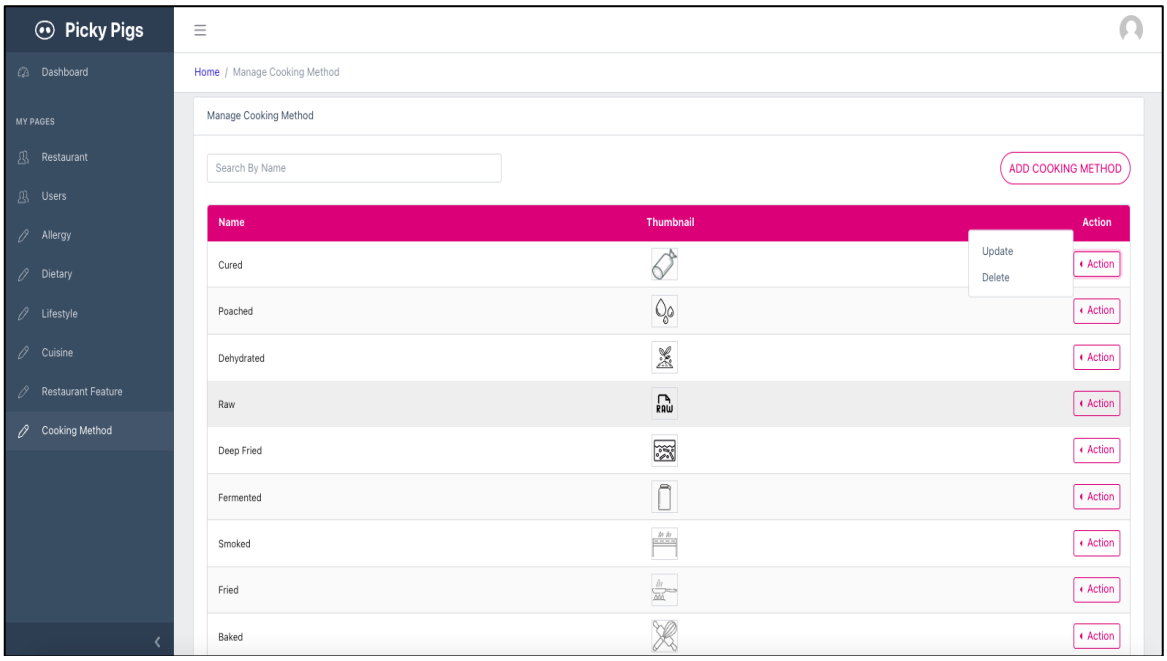


Figure 4.28.1 Cooking Method Manage Page

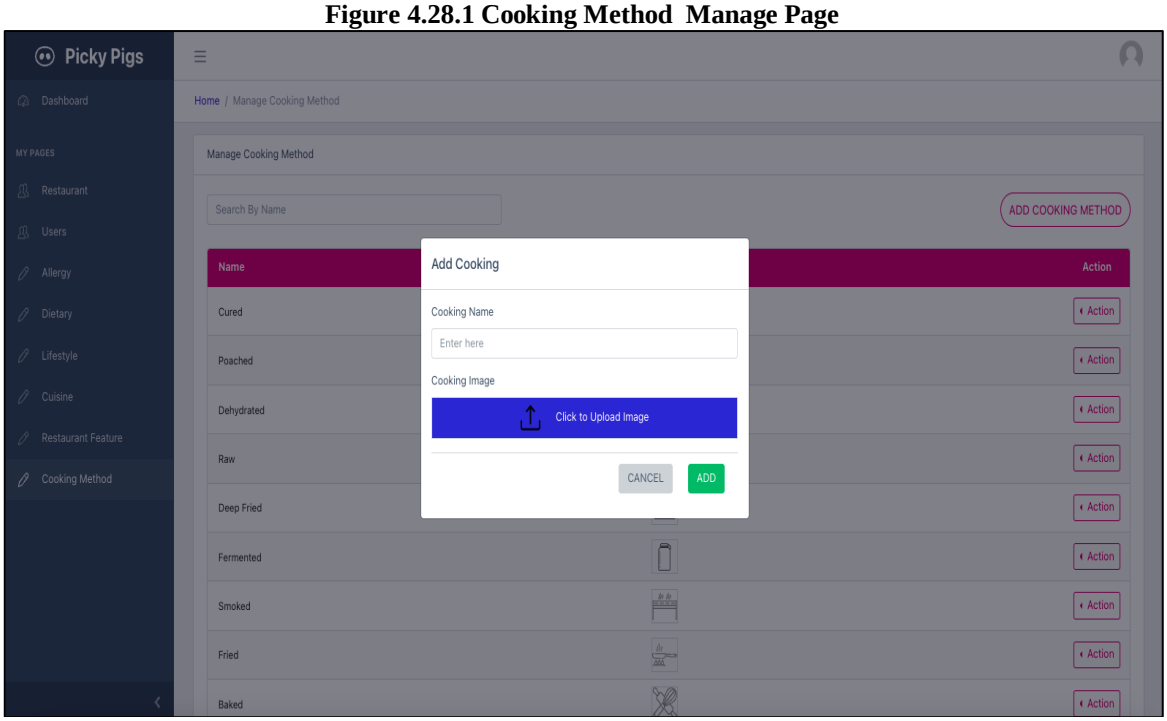


Figure 4.28.2 Cooking Method Manage Page

Figure shows the admin can manage the cooking method through this page admin can also add new cooking method and update old ones.

7. Software Testing

7.1 Software Testing
7.2 Test Cases

7.1 Software Testing

1) Website testing

Website testing is a critical element of sites quality assurance and represents the ultimate review of specification design and coding. Testing is an exposure of a system to trial input to see whether website meets correct Output. Testing cannot be determined whether website meets user's needs, only whether it appears to confirm to requirements. Testing can show that a system is free of errors, only that it contains error. Testing finds errors, it does not correct errors. Website success is a quality product, on time and within cost. Through testing can reveal critical mistakes. Testing should therefore,

- Validate Performance
- Detects Errors
- Identify Inconsistencies

Test Objective: -

- There is strong evidence that effective requirement management leads to overall project cost savings. The three primary reasons for this are,

- Requirement errors typically cost well over 10 times more to repair than other errors.

- Requirement errors typically comprise over 40% of all errors in a software project.

- Small reduction in the number of requirement errors pays big dividend in avoided rework costs and schedule delays.

- System are not designed as entire systems nor are they tested as single systems the analyst must perform both unit and system testing. For this different level testing are use.

2) Unit testing

- In unit testing Module is tested separately and the programmer simultaneously along with the coding of the module performs it.

- In unit testing the analyst tests the programs making up a system. For this reason, unit testing is sometime called program testing. Unit testing gives stress on modules independently of one another, to find errors. This helps the tester in detecting errors in coding and

logic that are contained within that module alone. The errors resulting from the interaction between modules are initially avoided

- Unit testing can be performed from the bottom up, Starting with smallest and lowest-level modules and proceeding one at a time., for each module in Bottom-up testing a short program is used to execute the module and provides the needed data, so that the module is asked to perform the way it will when embedded within the larger system

3) System testing

- This is performed after the system is put together. The system *is tested against the system requirement to check if all the requirements are met and if the system performs of specify by the requirements.

- Testing is an important function to the success of the system. System testing makes a logical assumption that if all the parts of the system are correct, the goal will be successfully activated. Another reason for system testing is its utility as a user-oriented vehicle before implementation.

System Testing Consists of Following Five Steps:

1. Program Testing:

- A program represents the logical elements of a system. For a program to run satisfactorily, it must compile and test data correctly and tie in properly with other programs. It is the responsibility of a programmer to have an error free program. At the time of testing the system, there exist two types of errors that should be checked. These errors are
  A) Syntax Error
  B) Logic Error

- A syntax error is a program statement that violates one or more rules of the language in which it is written. An improperly defined field dimension or omitted key words are common syntax errors. These errors are shown through error messages generated by the Computer.

- A logic error, on the other hand, deals with incorrect data fields out of range items, and invalid combinations. Since the logical errors are not detected by compile, the programmer must examine the Output carefully to detect them.

- When program is tested, the actual Output is compared with the expected Output. When there is a discrepancy, the sequence of the instructions, must be traced to determine the problem. Breaking the program down into self- contained portion, each of which can be checked at certain key points, facilitates the process.

7.2 Test cases

Module 1: Admin

❖ **Login**

Test field	Test Data	Valid/Invalid	Test Result
Email Id	Empty	Invalid	Please enter your email
	Parthpatthar	Invalid	Invalid email address or password
	parthpatthar82@gmail.com	Valid	Inputted text is alphabetic
Password	Empty	Invalid	Please enter Password
	123	Invalid	Invalid email address or password
	parth@345	Valid	Given password is same as exist in database
Login	Empty	Invalid	Please Enter Email ID and password
	parthpatthar77@gmail.com 12345	Invalid	Invalid email address or password
	parthpatthar82@gmail.com parth@345	Valid	Givven mail id and password is exist in database

❖ **Add new student**

Test field	Test Data	Valid/Invalid	Test Result
Student name	Empty	Invalid	Please enter valid student name
	123pa	Invalid	Please enter valid student name
	Yash	Valid	
Enrollment	Empty	Invalid	Please enter valid

number			enrollment number
	123456789	Invalid	Please enter valid enrollment number
	E1234256	Invalid	Please enter valid enrollment number
	E1711195011 0171	valid	
Roll number	Empty	Invalid	Please enter student roll number
	177	valid	
Class	Empty	Invalid	Please enter student class
	100	Invalid	Please enter valid class
	Fybca	Valid	
Division	Empty	Invalid	Please enter student division
	Abc	Invalid	Please enter valid student division
	1	Valid	
Email	Empty	Invalid	Please enter student email address
	Yashparmar	Invalid	Please enter valid email address
	yashparmar166@gmail.com	Valid	
Contact No.	Empty	Invalid	Please enter contact number
	Abcd	Invalid	Please enter valid contact number
	9033163874	Valid	
Gender	Empty	Invalid	Please select gender of student
	Male	Valid	
	Female	Valid	
Date of birth	Empty	Invalid	Please enter date of birth
	16-08-1999	Valid	
Address	Empty	Invalid	Please enter student address

❖ Add co-ordinators

Test field	Test Data	Valid/Invalid	Test Result
Co-ordinator name	Empty	Invalid	Please enter co-ordinator name
	123maulik	Invalid	Please enter valid co-ordinator name
	Yash	Valid	
Select avatar	Empty	Invalid	Please select profile image
	Image1.jpg	Valid	
Email	Empty	Invalid	Please enter email address
	Yashparmar	Invalid	Please enter proper email address
	yashparmar166@gmail.com	Valid	
Contact No.	Empty	Invalid	Please enter contact number
	Abcd	Invalid	Please enter valid mobile number
	9033163874	Valid	
Event category	Empty	Invalid	Please select event category
	Sport	Valid	

❖ Send notice

Test field	Test Data	Valid/Invalid	Test Result
Notice title	Empty	Invalid	Please enter notice title
	Sport week	Valid	
Notice for	Empty	Invalid	Please select receiver
	Co-ordinator	Valid	
	Student	Valid	
Notice content	Empty	Invalid	Please enter your message
	Next week we	Valid	

	organize sport week		
Attachment	Empty	Valid	
	Notice.pdf	Valid	

❖ Update profile

Test field	Test Data	Valid/Invalid	Test Result
Name	Empty	Invalid	Please enter valid name
	123maulik	Invalid	Please enter valid name
	Maulik	Valid	
Email	Empty	Invalid	Please enter email address
	Maulik	Invalid	Please enter proper email address
	maulikpadhdal@gmail.com	Valid	
Mobile no	Empty	Invalid	Please enter mobile number
	Abcd	Invalid	Please enter valid mobile number
	9512255044	Valid	

❖ Update password

Test field	Test Data	Valid/Invalid	Test Result
Current password	Empty	Invalid	Please enter your current password
	1234	Invalid	Invalid password
	Maulik@345	Valid	
New password	Empty	Invalid	Please enter your new password
	1234	Invalid	New password length must be greater then 6 character

	maulik@345	Valid	
Confirm password	Empty	Invalid	Please re-enter your password
	Abcd	Invalid	New password and confirm password not match
	maulik@345	Valid	

Module 2: Co-ordinator

❖ Login

Test field	Test Data	Valid/Invalid	Test Result
Co-ordinator email Id	Empty	Invalid	Please enter your emai
	Yash parmar	Invalid	Invalid email address or password
	Yashparmar166@gmail.com	Valid	
Password	Empty	Invalid	Please enter your Password
	123	Invalid	Invalid email address or password
	yash@345	Valid	

❖ Create new event

Test field	Test Data	Valid/Invalid	Test Result
Event name	Empty	Invalid	Please enter event name
	Kho-kho	Valid	
Event poster	Empty	Valid	
	Kho-kho.exe	Invalid	File Extension must be jpg,jpeg,svg and png format
	Khokho.jpg	Valid	
Event date	Empty	Invalid	Please enter event

			date
	03-04-2020	Invalid	Event date is invalid(only allow after today's date)
	09-04-2020	Valid	
Event end date	Empty	Invalid	Please enter event end date
	08-04-2020	Invalid	Event end date must be after the event start date
	10-04-2020	Valid	
Event time	Empty	Invalid	
	10:15	Valid	
Starting date of registration	Empty	Invalid	Please enter registration start date
	17-04-2020	Invalid	Starting date of registration should be before the event date and after today
	05-04-2020	Valid	
Last date of registration	Empty	Invalid	Please enter last date of registration
	16-04-2020	Invalid	End date of registration should be before the event date and after start date of registration
	04-04-2020	Invalid	End date of registration should be before the event date and after start date of registration
	07-04-2020	Valid	
Event type	Empty	Invalid	Please select event type
	Team	Valid	
	Solo	Valid	
Gender	Empty	Invalid	Please select gender
	Male	Valid	

	Female	Valid	
	For both	Valid	
Event for	Empty	Invalid	Please select class
	Fybca	Valid	
Team size	Empty	Invalid	Please enter team size
	Abc	Invalid	Invalid team size
	10	Valid	
Maximum team	Empty	Valid	
	-2	Invalid	Maximum limit should be more than one
	1	Invalid	Maximum limit should be more than one
	10	Valid	
Event location	Empty	Invalid	Please insert event location
	Maharaja farm,mota varachha	Valid	
Other rules	Empty	Valid	
	Student need to physical feet	Valid	

❖ Send notice

Test field	Test Data	Valid/Invalid	Test Result
Notice title	Empty	Invalid	Please enter notice title
	Sport week	Valid	
Notice content	Empty	Invalid	Please enter your message
	Next week we organize sport week	Valid	
Attachment	Empty	Valid	
	Notice.pdf	Valid	

❖ Update profile

Test field	Test Data	Valid/Invalid	Test Result
Name	Empty	Invalid	Please enter valid name
	123yash	Invalid	Please enter valid name
	Yash parmar	Valid	
Email	Empty	Invalid	Please enter email address
	Yash	Invalid	Please enter proper email address
	yashparmar@gmail.com	Valid	
Mobile no	Empty	Invalid	Please enter mobile number
	Abcd	Invalid	Please enter valid mobile number
	9979527696	Valid	

❖ Update password

Test field	Test Data	Valid/Invalid	Test Result
Current password	Empty	Invalid	Please enter your current password
	1234	Invalid	Invalid password
	yash@345	Valid	
New password	Empty	Invalid	Please enter your new password
	1234	Invalid	New password length must be greater then 6 character
	yashparmar@345	Valid	
Confirm password	Empty	Invalid	Please re-enter your password
	Abcd	Invalid	New password and confirm password not match
	yashparmar@345	Valid	

Module 3: Student

❖ Login

Test field	Test Data	Valid/Invalid	Test Result
Select college	Empty	Invalid	Please select your college name
	Sutex bank college of computer application and science	Valid	
Enrollment number	Empty	Invalid	Please enter your enrollment number
	12345	Invalid	Invalid enrollment number or password
	E17111950110171	Valid	
Opt	Empty	Invalid	Please enter opt
	711234	Valid	Same as sent opt by email

❖ Update profile

Test field	Test Data	Valid/Invalid	Test Result
Email	Empty	Invalid	Please enter email address
	Yash	Invalid	Please enter proper email address
	parthpatthar82@gmail.com	Valid	
Mobile no	Empty	Invalid	Please enter mobile number
	903316387	Invalid	Please enter valid mobile number
	9033163874	Valid	
Address	Empty	invalid	Please enter your address

❖ Participation

Test field	Test Data	Valid/Invalid	Test Result
Team name	Empty	Invalid	Team name must br greater then 5 character
	Rk	Invalid	Team name must br greater then 5 character
	Royal kings	Valid	
Player enrollment no	Empty	Invalid	Please enter this player enrollment number
	123456	Invalid	Invalid enrollment number
	E17111950110161	Valid	

Module 4: System Admin

❖ Login

Test field	Test Data	Valid/Invalid	Test Result
Email	Empty	Invalid	Invalid email or password
	Maulik	Invalid	Invalid email or password
	maulikp4646@gmail.com	Valid	
Password	Empty	Invalid	Please enter your Password
	123	Invalid	Invalid email or password
	maulik@46464	Valid	

❖ Send notice

Test field	Test Data	Valid/Invalid	Test Result
Notice title	Empty	Invalid	Please enter notice title
	Your subscription ended soon	Valid	
Notice for	Empty	Invalid	Please select receiver
	Sutex bank college of computer application and science	Valid	
Notice content	Empty	Invalid	Please enter your message
	Please confirm your renewal	Valid	
Attachment	Empty	Valid	
	Notice.pdf	Valid	

❖ Add college

Test field	Test Data	Valid/Invalid	Test Result
Admin name	Empty	Invalid	Please enter admin name
	Dishan112	Invalid	Please enter valid name
	Dishant sakariya	Valid	
Email	Empty	Invalid	Please enter email address
	Dishant123	Invalid	Please enter valid email address
	dishantsakariya42@gmail.com	Valid	
Institute name	Empty	Invalid	Please enter institute/college name

	S.v patel college	Valid	
Institute code	Empty	Invalid	Please enter institute code
	Svpc	Valid	
Contact no	Empty	Invalid	Please enter institute/college mobile no
	903316377	Invalid	Please enter valid mobile number
	9033163778	Valid	
City	Empty	Invalid	Please enter city name
	123	Invalid	Please enter valid city name
	Surat	Valid	
Institute Address	Empty	Invalid	Please enter institute address
	Sumul dairy road.	Valid	

❖ Update profile

Test field	Test Data	Valid/Invalid	Test Result
Name	Empty	Invalid	Please enter valid name
	123maluik	Invalid	Please enter valid name
	Maulik	Valid	
Email	Empty	Invalid	Please enter email address
	Maulik	Invalid	Please enter proper email address
	maulikpadhdal@gmail.com	Valid	
Mobile no	Empty	Invalid	Please enter mobile number
	Abcd	Invalid	Please enter valid mobile number
	9512255044	Valid	

❖ Update password

Test field	Test Data	Valid/Invalid	Test Result
Current password	Empty	Invalid	Please enter your current password
	1234	Invalid	Invalid password
	maulik@46464	Valid	
New password	Empty	Invalid	Please enter your new password
	1234	Invalid	New password length must be greater then 6 character
	Maulik46@345	Valid	
Confirm password	Empty	Invalid	Please re-enter your password
	Abcd	Invalid	New password and confirm password not match
	Maulik46@345	Valid	

8. Limitations and Future Scope of Enhancements References

8.1 Limitations of the system

- The system is made for those colleges which organize events in their college only. So, to manage intercollege competition is not possible through this system.
- The system structure is not suitable for some school
- The system doesn't include chat system between two users.
  Ex. Chat system between system-admin and super-admin

8.2 Future Scope of Enhancements

- Try to provide more facilities for grow up the system
- Some extra Backup features
- Generating match between teams like first round, second round and final round
- Adding chat system between system admin and super admin
- Forum system for students

8.3 References

- https://stackoverflow.com/
- https://nodejs.org/en/docs/
- https://expressjs.com/
- https://reactjs.org/
- https://www.postman.com/
- https://www.geeksforgeeks.org/
- https://www.w3schools.com/
- https://www.youtube.com/
- https://github.com/