



MIA.ph
University of the Philippines,
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Miag ao, Iloilo 5023
The Philippines

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Software Requirements Specification

for

MIA.ph (Meals-In-Action)

Version 0.1

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October 02, 2018



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Revision History

Name	Date	Reason For Changes	Version
Shayne Meiko Abao, Kathlene Acompaniado, Raymund Gerard Pamatian	02 Oct 2018	1 st draft	0.1



1. Introduction

1.1 Purpose

This Software Requirements Specification provides a complete description of all the functions and specifications of the Meals-in-Action (MIA) web-based restaurant database. It will explain the purpose and features of the website, the interface, what the website can do and the constraints under which it must operate. This document is intended for users of the website and also potential web developers.

1.2 Document Conventions

This Document was created based on the IEEE template for System Requirement Specification Documents.

1.3 Intended Audience and Reading Suggestions

- Users such as residents of Miagao, Iloilo who want to use MIA to look for an convenient ways to order food that's fast and easy.
- Restaurant/cafe owners that want to use MIA to promote their restaurants/cafes
- Programmers or Developers who wants to be a part of the system or fix existing bugs.
- Project Manager of other projects that related with MIA and is looking for a system to be a basis of theirs.
- Sales and Marketing staff of Restaurants and cafes looking for a way to boost their popularity and is curious about the system.

Readers who are not so familiar with computer and software components such as the marketing staff, restaurant owners and users could skip to(Chapter 3) the Interfaces to get a much more visualization of the system While the developers and project managers should check every chapter to better understand the system. These readers could just read the document on the order sequence.



1.4 Product Scope

Meals in Action (MIA) is a website that residents and tourists can use to look for any available restaurants in the miagao, iloilo area and what their meals or menus are. Users can look at the restaurants respective menus and they can reserve or order the food through the website. Users could also book the restaurant for venues if possible. Restaurant owners also update and change their menus daily, they can choose whether or not delivery is possible and list the amenities and other services the restaurant could offer..

1.5 References

IEEE Template for System Requirement Specification Documents:

<https://goo.gl/nsUFwy>

2. Overall Description

2.1 Product Perspective

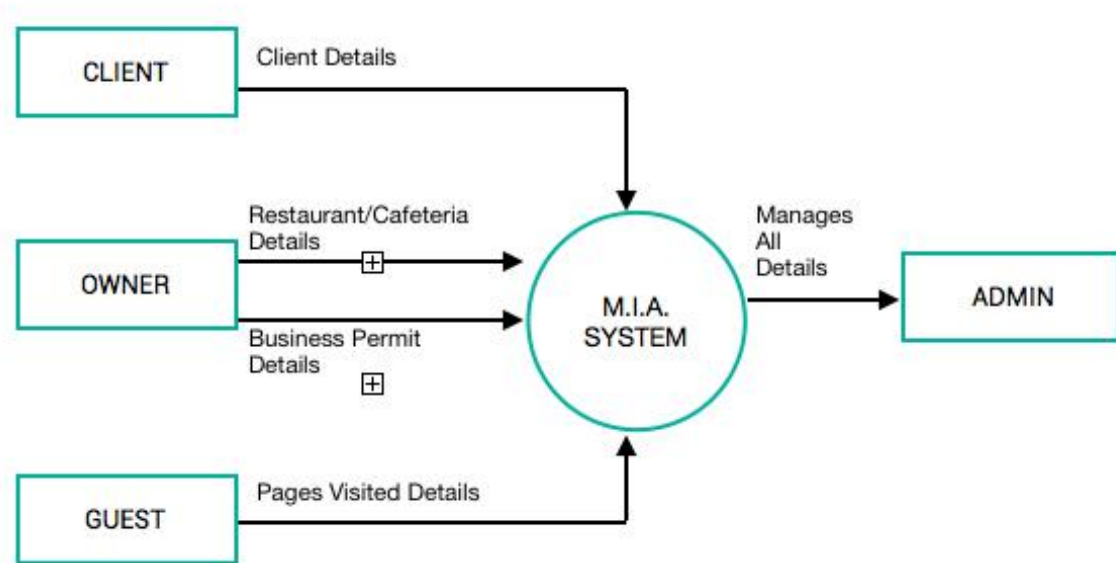
Meals-In-Action is a web-based booking, ordering and delivery system developed as a new self-containing product for the people residing or tourists in Miagao, Iloilo who can use a help in looking and booking for a place to eat and to held events.

It is an open source project and it has a very active developer team to support it and provide feedback to users. It is developed to run on Windows, Mac OS and Linux.

2.2 Product Functions

This section shows a data flow diagram, the system functions and their descriptions and product function using use case method.

Date flow Diagram:



Main Page:

- Displays the Overview page, which includes the logo of the company, the tabs for the list of the restaurants, cafeterias, promos and events and userslog in tab that includes the user page.

List of Restaurants Page:

- Displays the list of restaurants with corresponding information such as pictures, prices and ratings and contact information
- Restaurants can be sorted depending on the prices, ratings and alphabetical order

List of Cafeterias Page:

- Displays the lists of cafeterias with corresponding information such as pictures, prices and ratings and contact information
- Cafes can be sorted depending on the prices, ratings and alphabetical order

Promos Available Page:

- Displays the promos available, and other information such as the customers allowed to use the promo.

Events Page:



-
- Displays upcoming events for the week and other information such as the venue restaurants, people invited, etc.

User(Owner) Page:

- Displays the tabs: Menu, Delivery, Reservations, Events and Profile.
 - Menu tab is where the owner edits the information of the meals available for the day, it includes: Drinks, Rice Meals, Combo Meals and Snacks, Owner can edit the prices and the name, they could also add pictures.
 - Delivery tab is a simple page that asks the owner if delivery is available for the restaurant.
 - Events tab includes editing existing events and adding upcoming events.
 - Profile tab is where the user could edit his/her personal information.

User(Client) Page:

- Displays the tabs: My account, my orders, My reservations, My vouchers, My events. You could also view the clients transactions with the statuses: to pay, completed and cancelled
 - Account tab is where the client could edit their personal information
 - Orders tab are transactions pending for approval and orders that are not yet checked out.
 - Reservations tab shows the list of reservations you've booked either for a table or for an event and their status either upcoming, completed and pending for approval
 - Vouchers tab shows the vouchers that are applicable to the client.
 - My events are just like my reservations tab but does not include other informations such as prices and rates of the venue, rates of table or food ordered in advance etc.

User Guest Page:

- The guest user page is simply the homepage.

Help Page:

- Displays the tabs: About, FAQs and Check for updates

Figures below are to show product functions using use case.

Figure 1. Client reserves tables and Owner confirms them.

Reservations

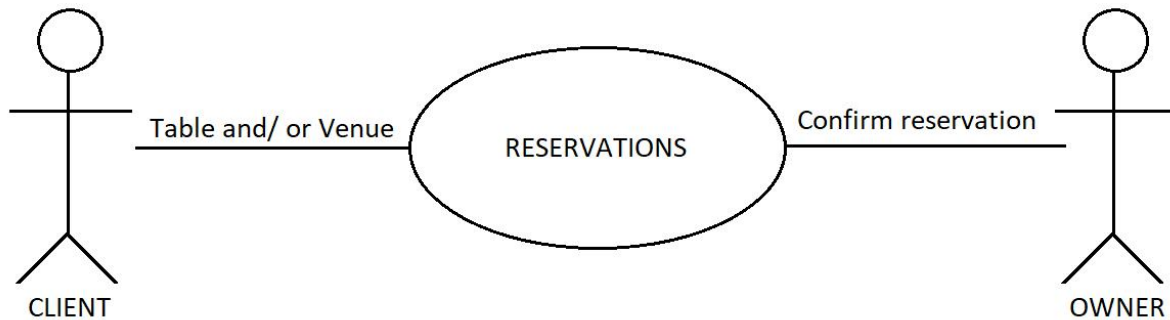


Figure 2. Client accessing MIA (Meals in Action)
Home Page Access

Figure 3. Making reviews

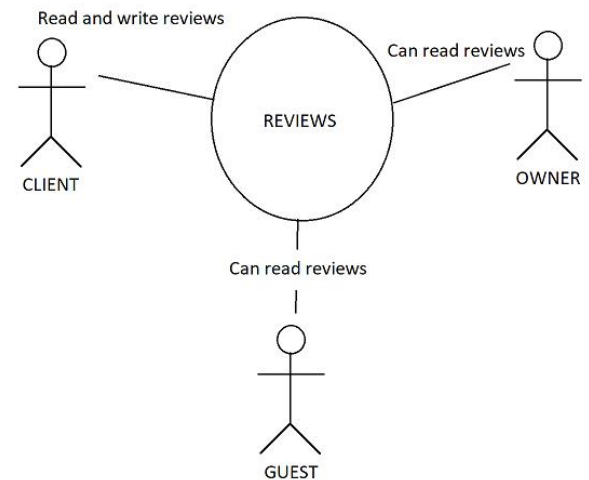
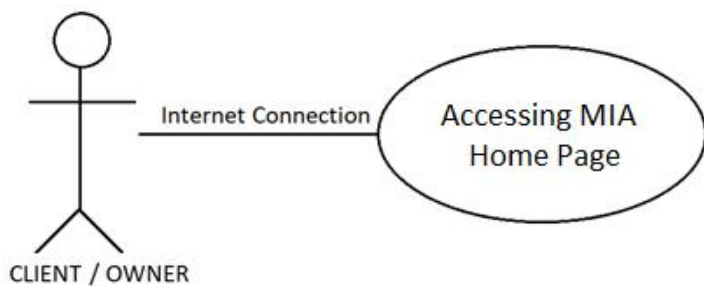
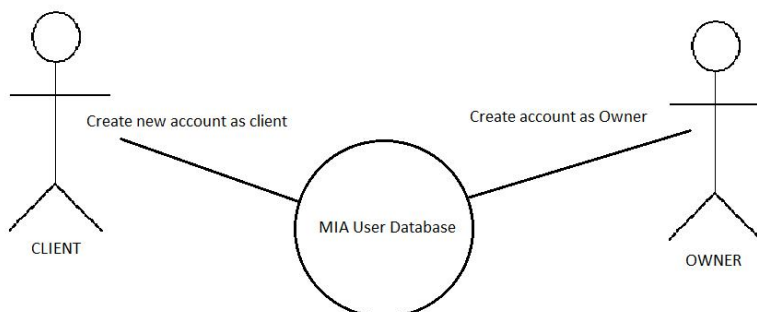


Figure 4. Making accounts





2.3 User Classes and Characteristics

● Typical Users such as residents of Miagao, who wants to use MIA.ph for more efficient ordering and delivery services.	Frequent Users	More Important
● Residents of Miagao, who wants to use MIA.ph for more efficient advance booking system.	Frequesnt Users	More Important
● Tourists who are in town and looking for a guide on where to eat.		More Important
● Vloggers, Film Makers and Food & restaurant critics who could boost the popularity of the restaurant, the system and the town.		Most Important
● Programmers who are interested in working on the project by further developing it or fix existing bugs		Important
● Restaurant/Cafe Owners who are looking for a much better way of advertising their restaurants and increase sales.	Frequent Users	More Important
● Residents/Tourists of Miagao, looking for a potential restaurant to held their events.		Important

2.4 Operating Environment

- Windows 8.1 - Internet Explorer, Google Chrome, Mozilla Firefox, Torch
- Windows 10 - Internet Explorer, Google Chrome, Mozilla Firefox, Torch
- Windows 10.1 - Internet Explorer, Google Chrome, Mozilla Firefox, Torch
- Linux - Mozilla Firefox, Google Chrome
- Mac OS - Google Chrome, Safari

2.5 Design and Implementation Constraints

Meals-In-Action is built using the Language php and HTML, it uses openGL for its visualization engine and has been built on top of the NetBeans Platform or Sublime. It uses modular design where every feature of every type of user is wrapped into seperate modules and the modules depend on each other through well-written APIs. MySQL can be connected for its database and therefore requires MySQL workbench to built it in.



2.6 User Documentation

Video Tutorial on how to install and update browsers on Windows:

[Htps:](#)

Video Tutorial on how to install and update browsers on Linux:

[https:](#)

Video Tutorial on how to install and update browsers on Mac:

[https:](#)

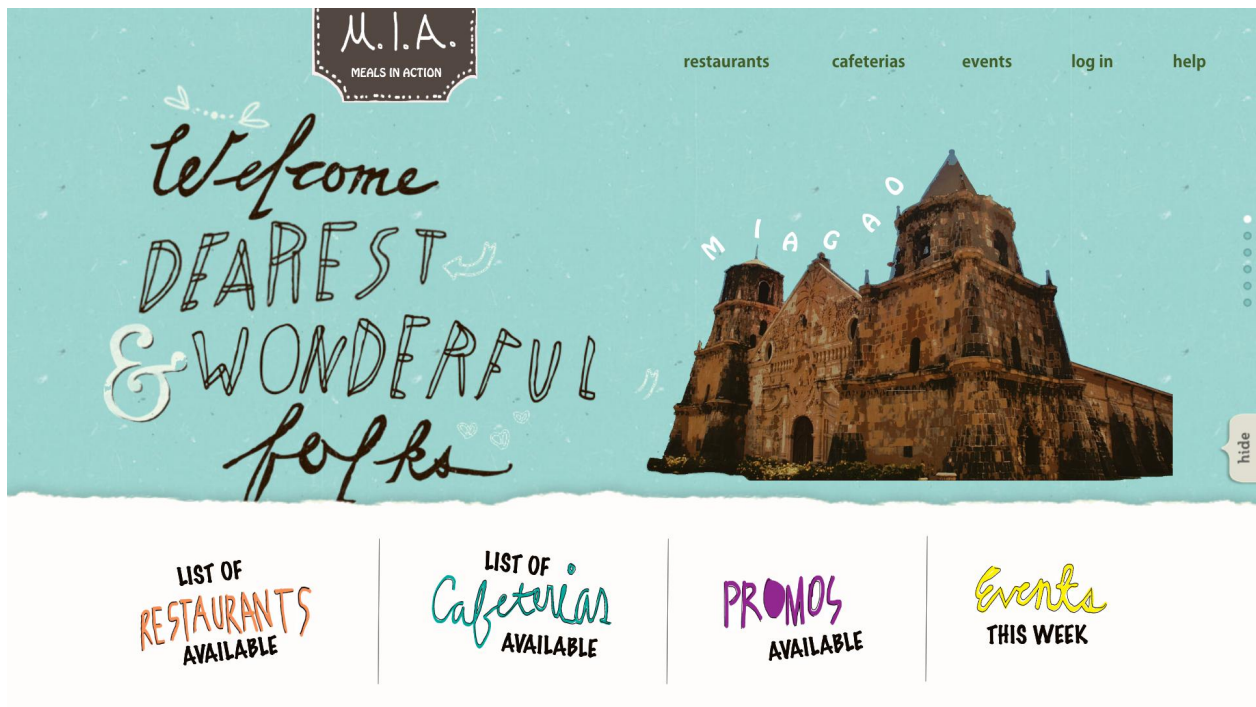
2.7 Assumptions and Dependencies

Meals-In-Action is developed in php and HTML and therefore requires the latest version of php & html to be installed in the developers computer, as well as XAMPP where the code is interpreted and sublime where the developer codes. It runs on any browser so it requires an browser to be installed in the users system, this applies for Windows, Linux and Mac OS. For its database, MySQL is used hence it should be installed too as well as MySQL workbench.

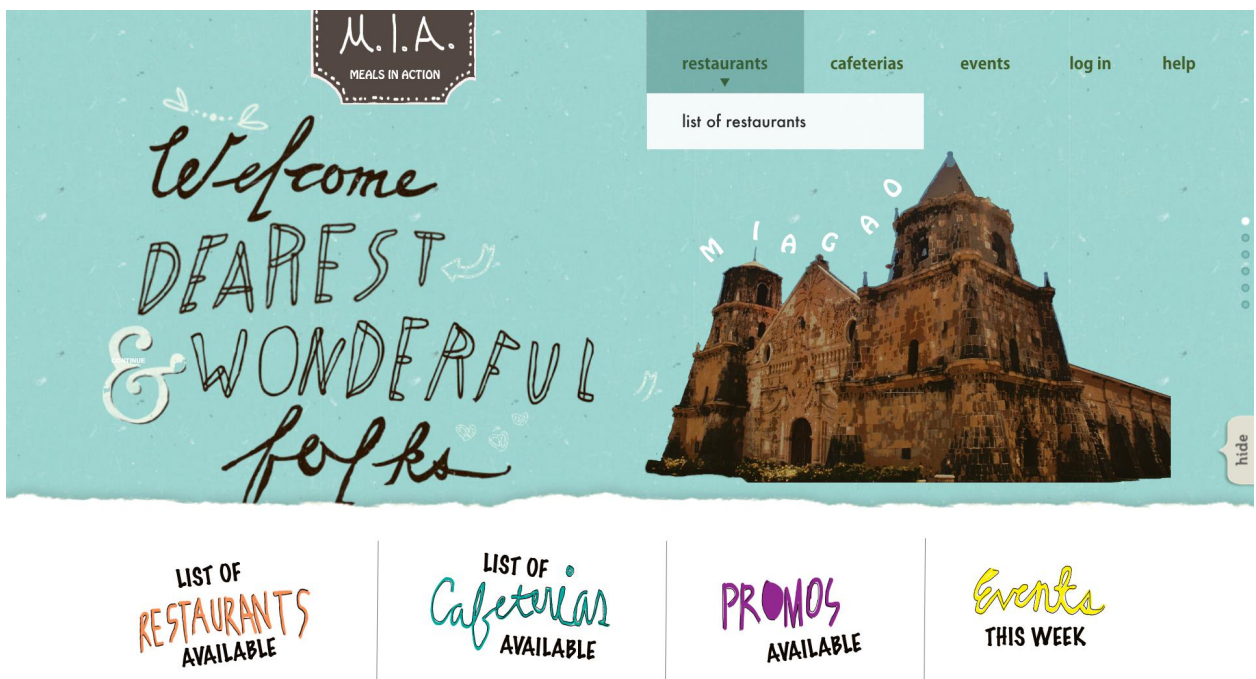
3. External Interface Requirements

3.1 User Interfaces

1. M.I.A's Homepage

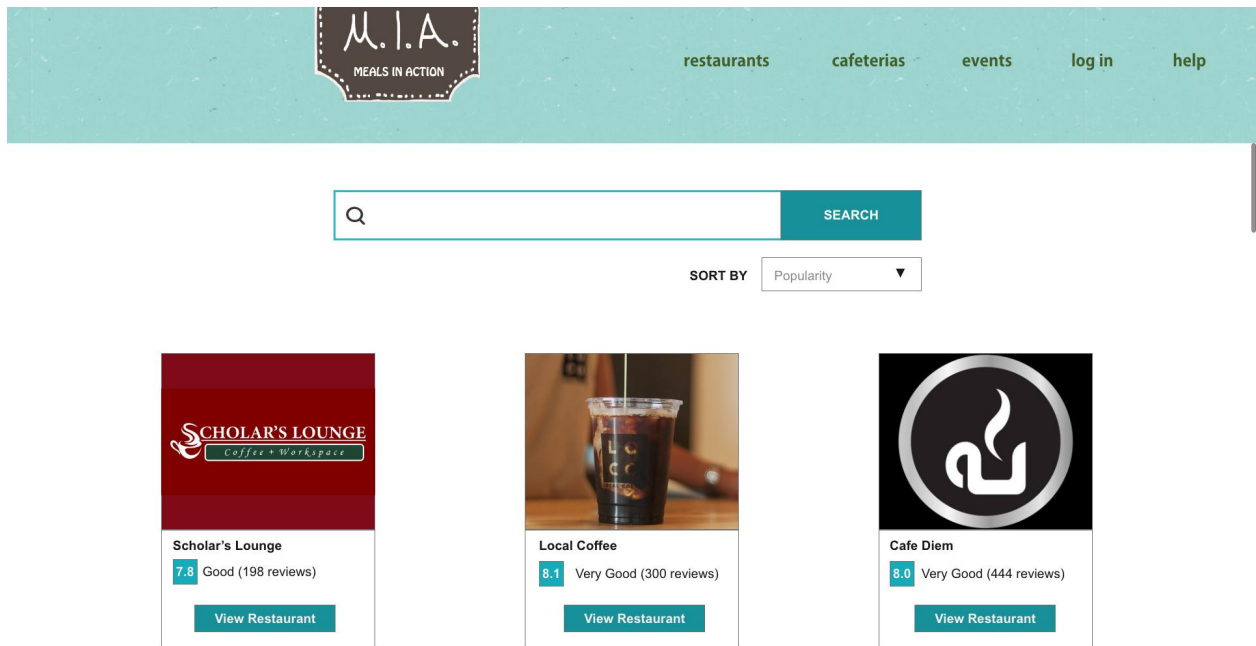


2. M.I.A's Restaurant Button





3. List of Restaurant Button under Restuarant's Button



4. View Restaurant Buttons (Ex. Page from Scholar's Lounge)



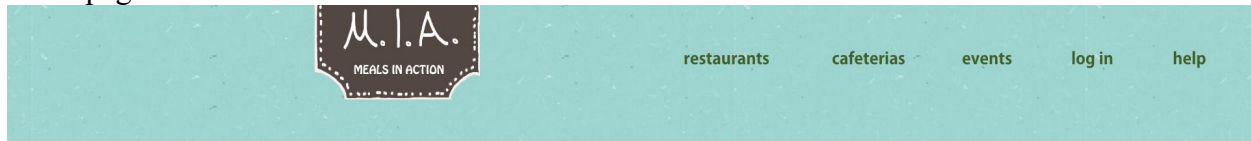


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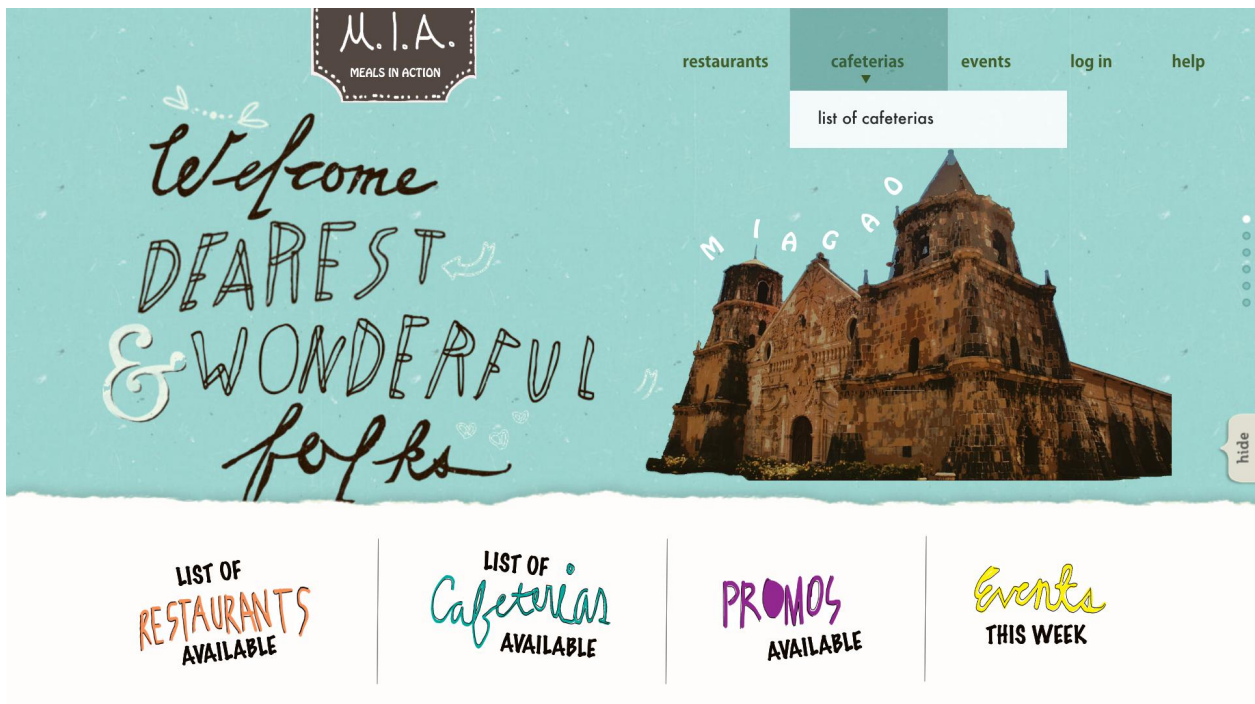
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5 Reservations Button from Restaurant's

Homepag

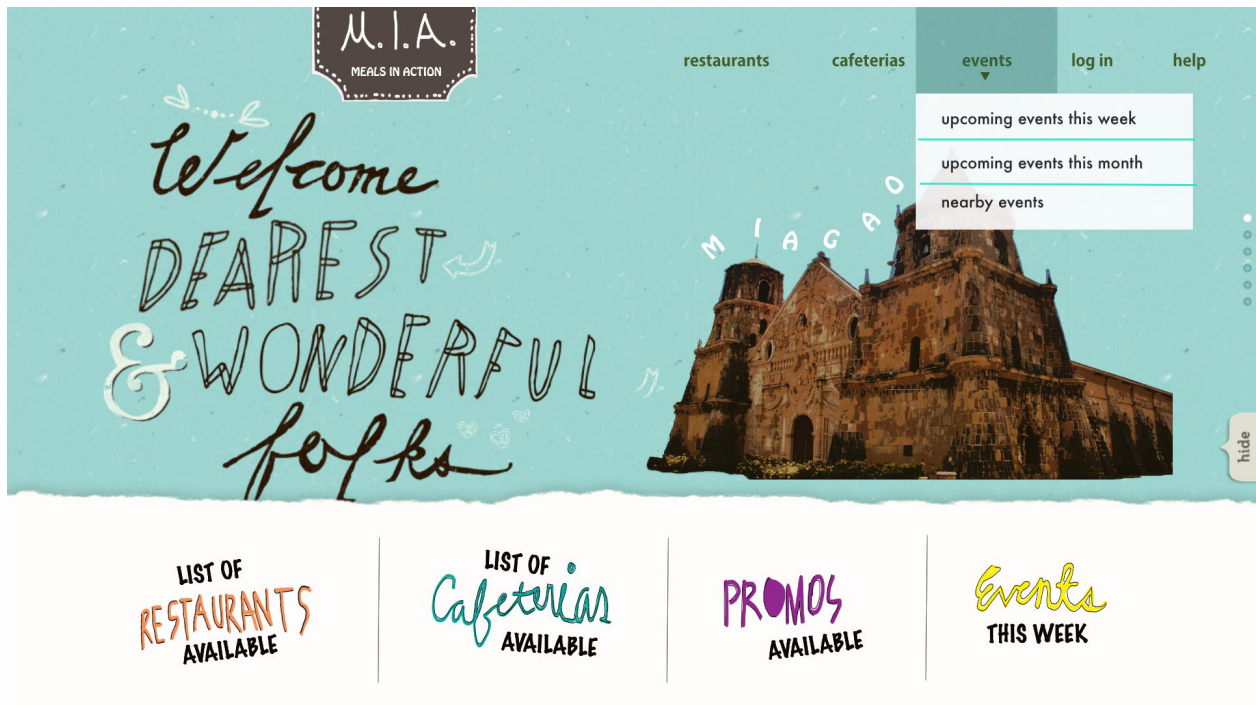


6 . M.I.A's Cafeteria Button

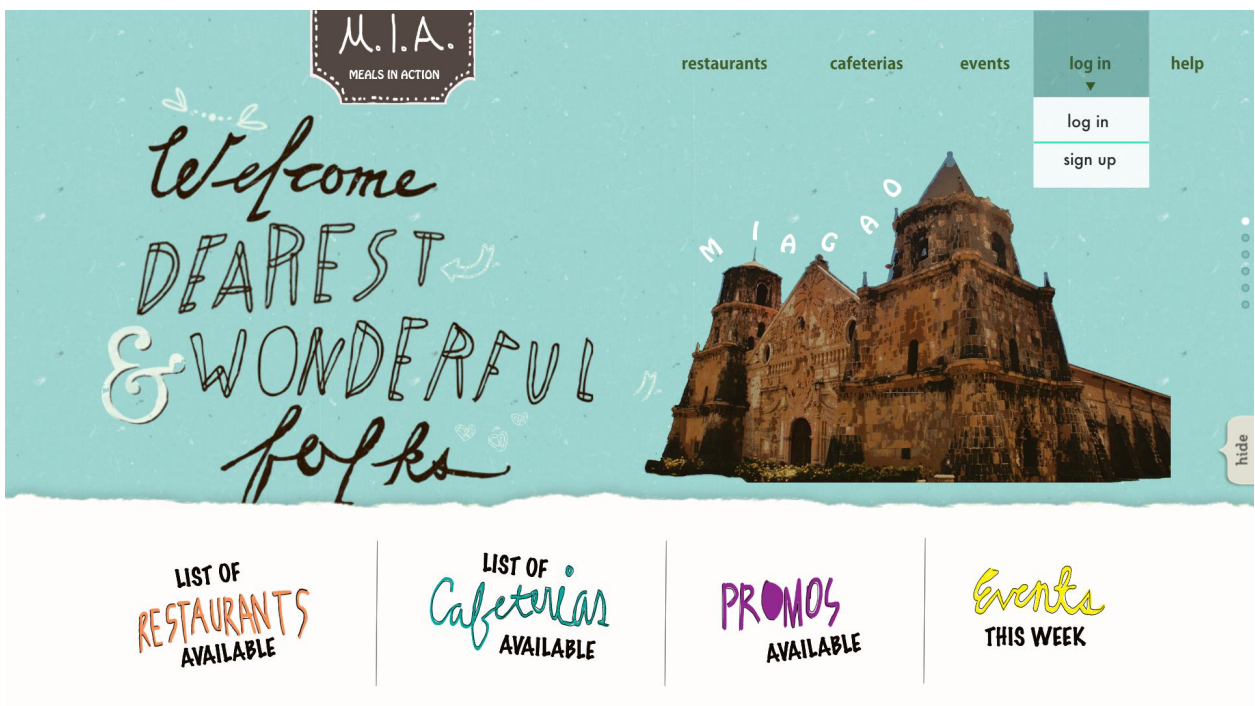




7. M.I.A's Events Button



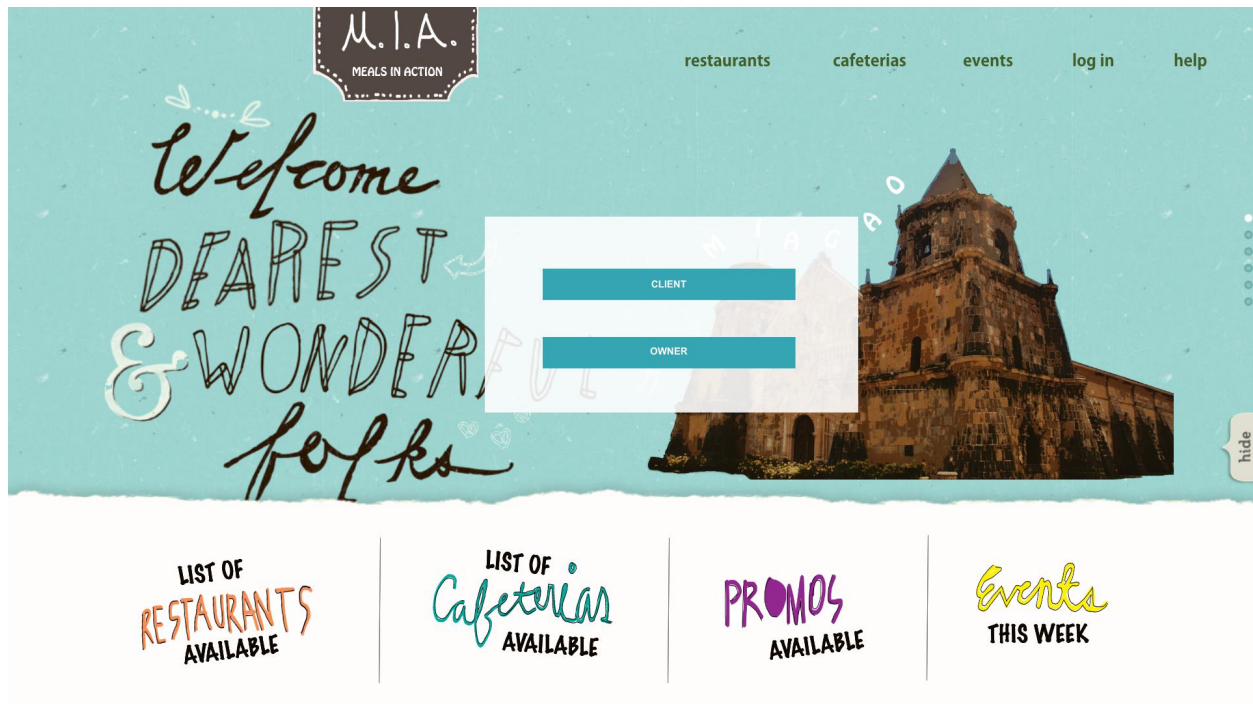
8. MIA.ph's Login Button (Log in/Sign Up) & (Client/Owner)



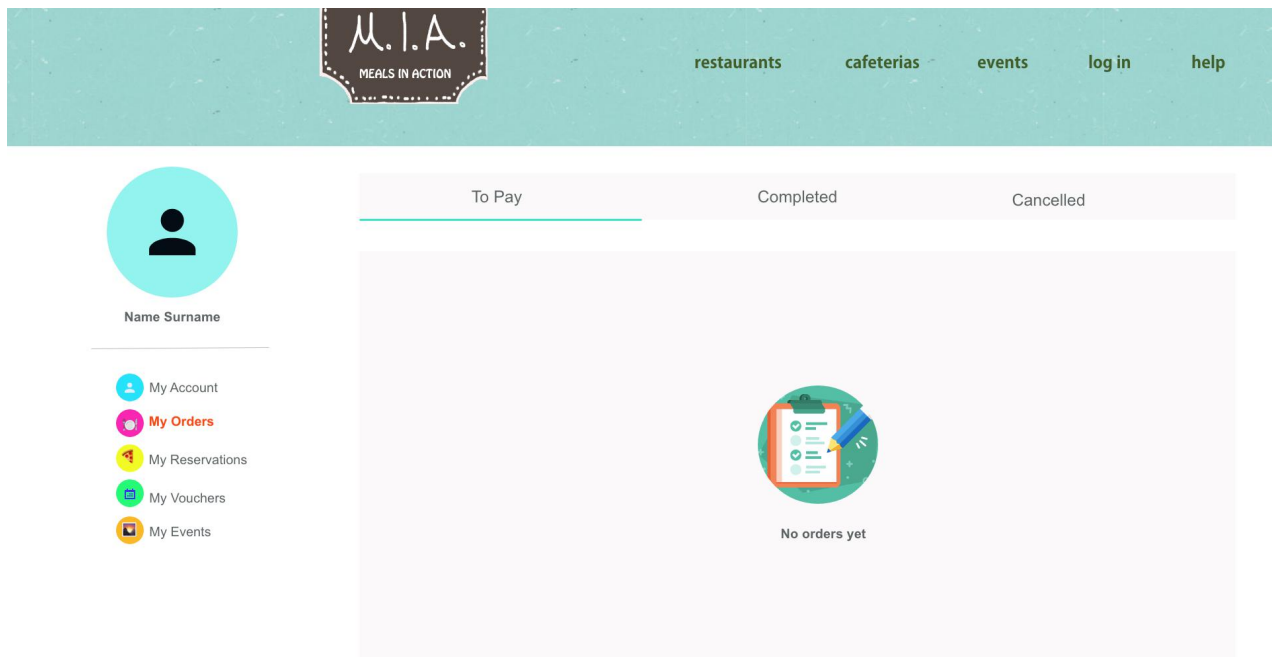


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9. Client Homepage

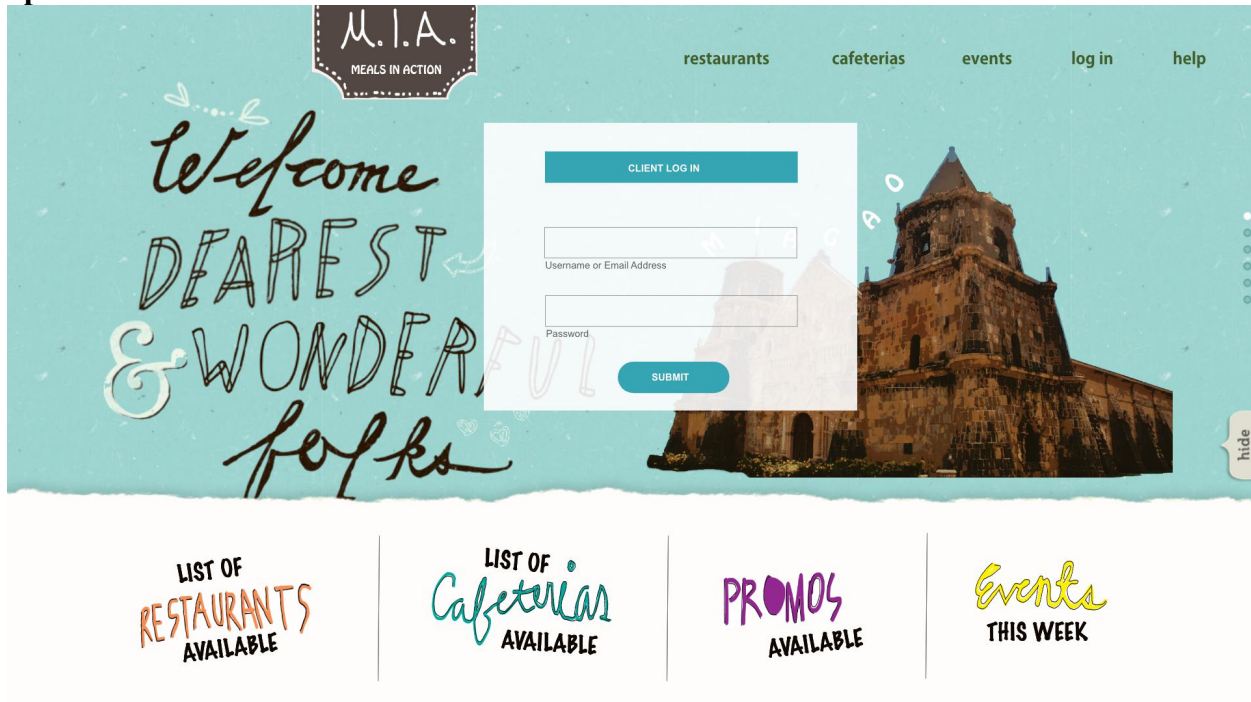




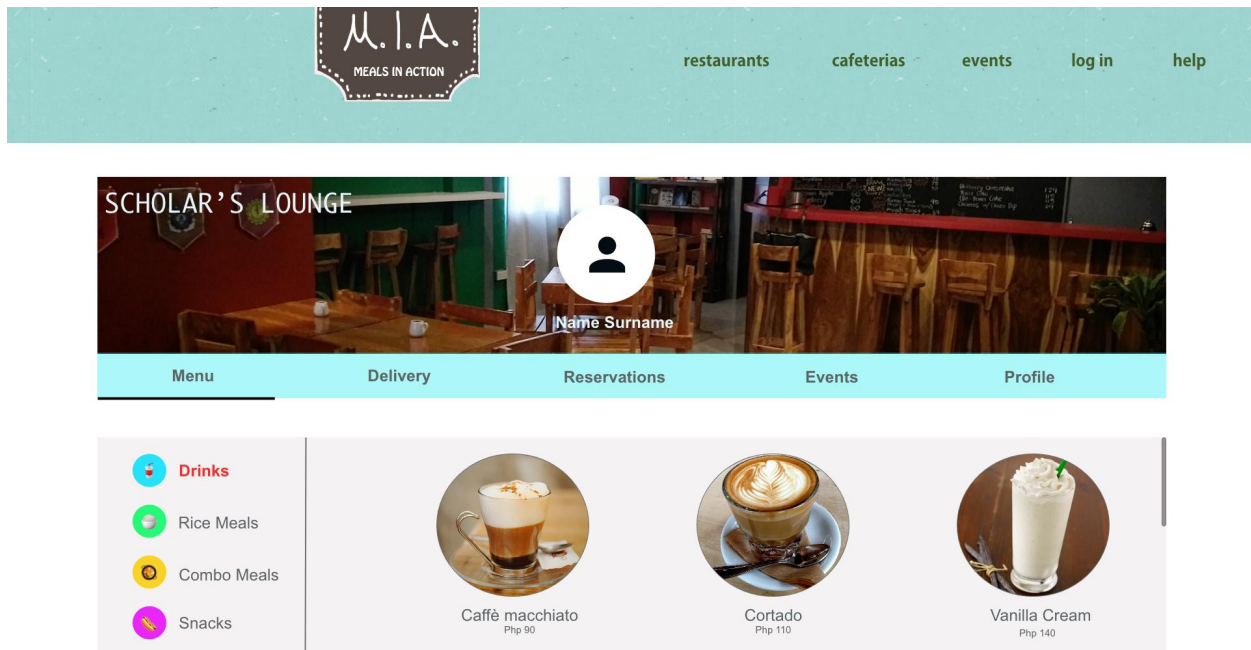
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10. Clicking the owner button in the log in option





11. Owners Home Page





12. Client Sign Up Page

[restaurants](#)[cafeterias](#)[events](#)[log in](#)[help](#)


+ Upload profile picture

First Name


Surname


Username

Email Address

Address

13. Owner's Sign Up Page

[restaurants](#)[cafeterias](#)[events](#)[log in](#)[help](#)


+ Upload profile picture

First Name

Surname

Business Name

Email Address

+ Upload Business Permit



3.2 Hardware Interfaces

The minimum hardware requirements of M.I.A, are a 500 Megahertz CPU and 128 megabytes of RAM. Also, because M.I.A uses html, javascript, php database to run the system smoothly.

3.3 Software Interfaces

Meals-In-Action requires the latest version of Php, http and MySQL to be installed in the developers system. Additional informatioo could be found in section 2.7 of this document.

3.4 Communications Interfaces

Meals-In-Action requires internet connection to install new plug ins, update already installed ones and update some parts of its components.

4. System Features

This section demonstates MIA.ph's most prominent features and explains how can they be used. MIA.ph's most prominent features are the essential features that MIA.ph has among others.

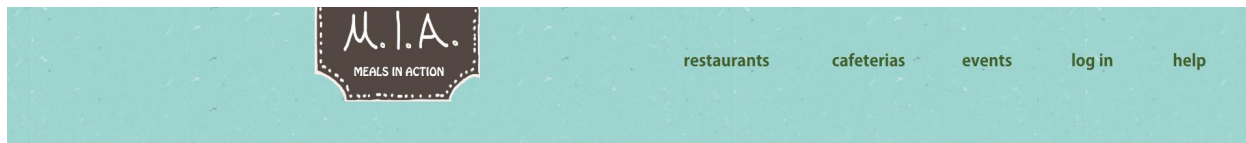
4.1 User(Client) Ordering

4.1.1 Users(Clients) can directly order meals by clicking the add to order button under the picture of meal. This feature is an High Priority feature.

4.1.2 After the user(client) clicks the add to orders button, the system adds that to the pending orders on the database with its own order ID and then it would either go to the completed or not completed orders depending on the number of stocks there are still left. It would appear on the My Orders tab of the user in the Users(Clients) Page for the client to view with the details such as the order ID, status, amount to pay and payment methods available.

4.1.3 Here are some functional requirements associated with this feature. These are the software capabilities that must be present in order for the user(client) to carry out the services provided by the feature:

- REQ1: Storing of the Orders in the Database should be done perfectly.
- REQ2: There should be no duplicate order ID's on the database.
- REQ3: Clicking the button should be linked to the right page and not redirect to other pages.
- REQ4: Database should be efficient in storing the orders for the client might be impatient and click the button multiple times & that could cause database problems.



4.2 Payment

4.2.1 Users(Clients) can pay form their orders in advance efficiently and depending on the allowed payment methods of the owner simply by clicking Pay now and choosing the payment method they desire. This feature is a High Priority Feature..

4.2.2 The User(Client) could click the pay now or the pay later button. Pay now button shows a list of accepted payment methods for that restaurant,after picking the payment method, the system gives it a Payment ID and redirects it to the website of that payment methods which gives it a reference ID to be linked to the payment ID on the payment table on the database. After the transaction is completed, details would show up in the completed tab on the clients page. Pay later button gives the client a payment ID and will be added on the pending orders table.

4.2.3 Here are some functional requirements associated with this feature. These are the software capabilities that must be present in order for the user(client) to carry out the services provided by the feature:

REQ1: Clicking the payment button should be linked to the right page and not redirect to other pages.

REQ2: Payment ID should be linked perfectly with reference ID after payment without any duplicates.

REQ3: Pay later button should place the transaction on the pending orders perfectly and not on other tables.



4.3 User (Client) Booking

4.3.1 Users(Clients) can book tables and function halls or other amenities by the restaurant by clicking the book button under each amenities of the restaurant. This feature is an High Priority feature.

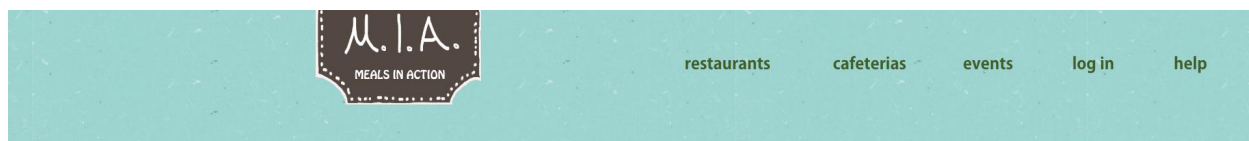
4.3.2 After the user(client) clicks the book button, a page shows up where the user would choose the desired date or time then the system checks weather that date and time already has a booking. If there isn't , the system adds that to the pending orders on the database with its own booking ID. In order for it to be completed, either payment should be completed first. It would appear on the My Bookings tab of the user in the Users(Clients) Page for the client to view with the details such as the order ID, status, date and time, amount to pay and payment methods available.

4.3.3 Here are some functional requirements associated with this feature. These are the software capabilities that must be present in order for the user(client) to carry out the services provided by the feature:

REQ1: Payment feature should be perfect.

REQ2: There should be no duplicate booking ID's on the database.

REQ3: There should be no duplicate bookings on the same time and date.



4.4 Delivery

4.4.1 Users(Clients) can click the deliver button if the restaurant/cafe allows it. This feature is a Medium Priority feature.



4.4.2 After the user(client) clicks the deliver button, the system adds that to the pending orders on the database with its own order ID and then it would either go to the completed or not completed orders depending if the delivery is successful or not. It would appear on the My Orders tab of the user in the Users(Clients) Page for the client to view with the details such as the order ID, status(To deliver, On its way and Completed) and amount to pay.

4.4.3 Here are some functional requirements associated with this feature. These are the software capabilities that must be present in order for the user(client) to carry out the services provided by the feature:

REQ1: Storing of the Orders in the Database should be done perfectly.

REQ2: There should be no duplicate order ID's on the database.

4.5 Creation of User(Client) Account

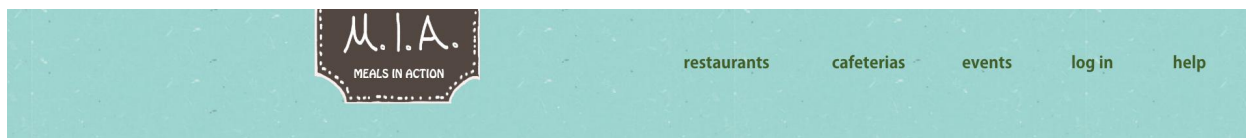
4.5.1 Users(Clients) can create accounts for their personal use. This is a High Priority feature.

4.5.2 After the user(client) clicks the sign up button, the user is redirected to the sign up page where he/she is required to fill personal details about him/herself. The system then stores those data in a table by attribute and adds a unique client ID then the user is redirected to the clients page.

4.5.3 Here are some functional requirements associated with this feature. These are the software capabilities that must be present in order for the user(client) to carry out the services provided by the feature:

REQ1: Storing of the Information in the Database should be done perfectly.

REQ2: There should be no duplicate client ID's on the database.



+ Upload profile picture

<input type="text"/>
First Name
<input type="text"/>
Surname
<input type="text"/>
Username
<input type="text"/>
Email Address
<input type="text"/>
Address



4.6 Creation of User(Owner) Account

4.6.1 Users(Owners) can create accounts for their business and personal use. This is a High Priority feature.

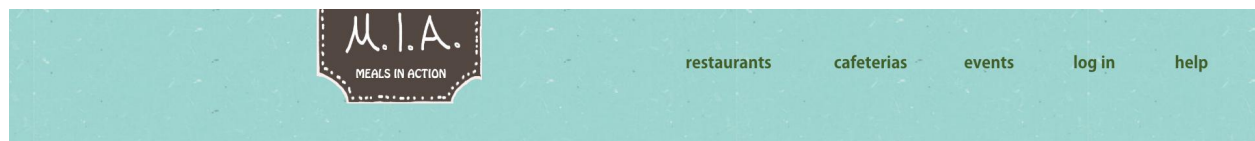
4.6.2 After the user(owner) clicks the sign up button, the user is redirected to the sign up page where he/she is required to fill personal details about him/herself as well as business details such as address, contact information and amenities. The system then stores those data in a table by attribute and adds a unique owner ID then the user is redirected to the owners page where he/she could edit the tabs stated at section 2.1 of this document.

4.6.3 Here are so functional requirements associated with this feature. These are the software capabilities that must be present in order for the user(owner) to carry out the services provided by the feature:

REQ1: Storing of the Information in the Database should be done perfectly.

REQ2: There should be no duplicate owner ID's on the database.

REQ3: There should be an efficient database for the details of the business too.





5. Other Nonfunctional Requirements

5.1 Performance Requirements

MIA requires a steady and stable internet connection for the client, owners, and guests to access the web page. Features such as Orders, Bookings, Payment and Deliveries require steady and stable to avoid duplicates and errors. Creating profiles or account require stable internet but not necessarily the most steady connection. Browsing through restaurant and cafes requires good internet connection to be able to see pictures. Performance depends on the internet connection, and the amount of data (orders/bookings) the user has.

5.2 Safety Requirements

Payment feature might cause some loss if the internet connection is unstable and not steady but personal data and information is safe especially if the user is on the redirected page (eg paymaya, coins.ph, gcash) since those sites are already established and well maintained.

Multiple clicking of some buttons such as add to orders , book now, pay now, etc would cause some possible error which is why this action should be prevented.

To ensure that no one of MIA's users loses any data while using MIA (due to a crash or a bug of some kind) the developer team updates MIA regularly. There is a bug tracker available where users can report any bugs they have encountered so that the developers can fix it in the next update or maintenance.

5.3 Security Requirements

One of MIA.ph's security requirements is to require the client or the owner to enter their passwords when they log in so that not just any type of user can use their accounts. In creation of account of the users, a captcha is provided to make sure that that is a human person creating an account and not a computer program.



5.4 Software Quality Attributes

MIA.ph, provides the users with both simple and advanced features. Due to its well designed and easy to use interface it can be used by both experts and typical users.