# Software Requirements Specification

**for**

# MIA.ph (Meals-In-Action)

**Version 0.1**

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**& Raymund Gerard Pamatian**

**October 02, 2018**

# Table of Contents



# Revision History

| Name | Date | Reason For Changes | Version |
|---|---|---|---|
| Shayne Meiko Abao, Kathlene Acompaniado, Raymund Gerard | 02 Oct 2018 | 1st draft | 0.1 |
| Shayne Meiko Abao, Kathlene Acompaniado, Raymund Gerard | 01 Nov 2018 | 1st version | 1.0 |

# 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

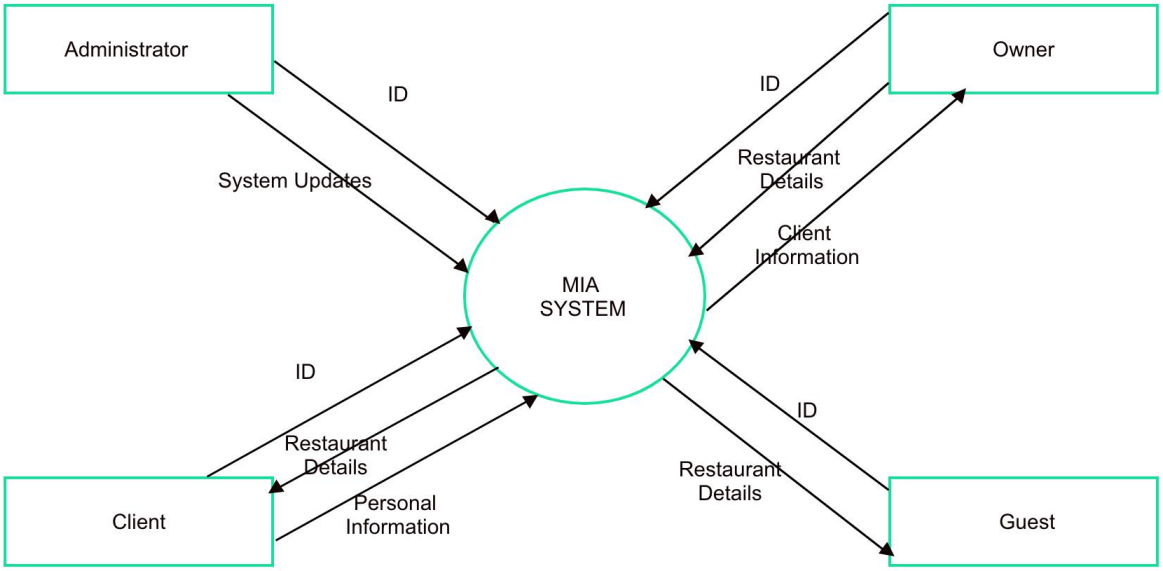
# 2. Overall Description

## 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.

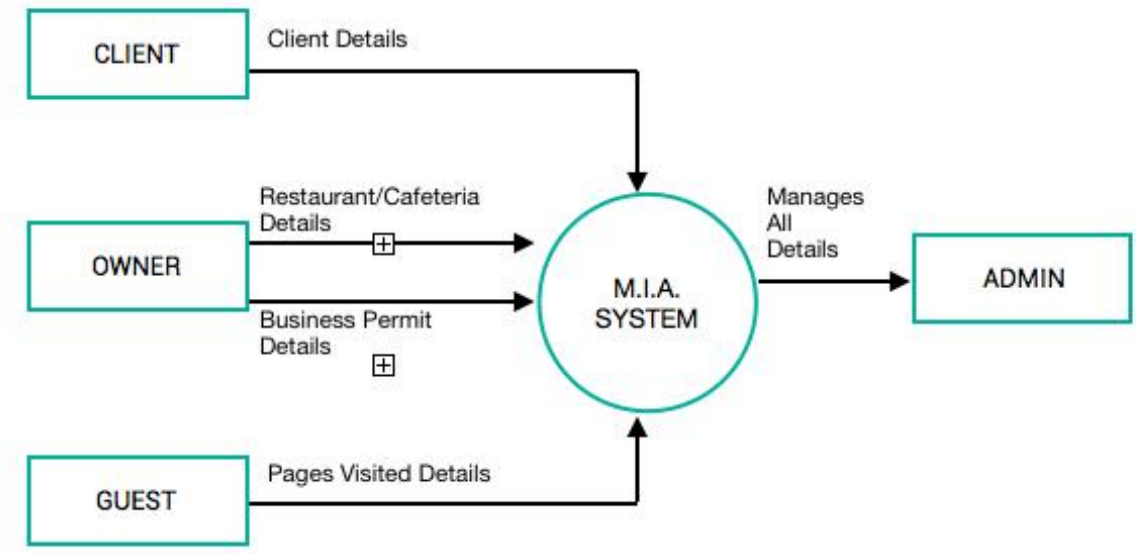
Here is a context diagram showing the relationship of the system with its environment:




## 2.2 Product Functions

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

Data flow Diagram:



Owner's Section:

- View/edit User information
- create account
- Log in
- Update availablity of meals and amenities
- Post announcements, events and discounts
- Upload pictures of meals and amenities
- View Ratings
- Edit available dates for tables and amenities
- Update availability of Delivery services

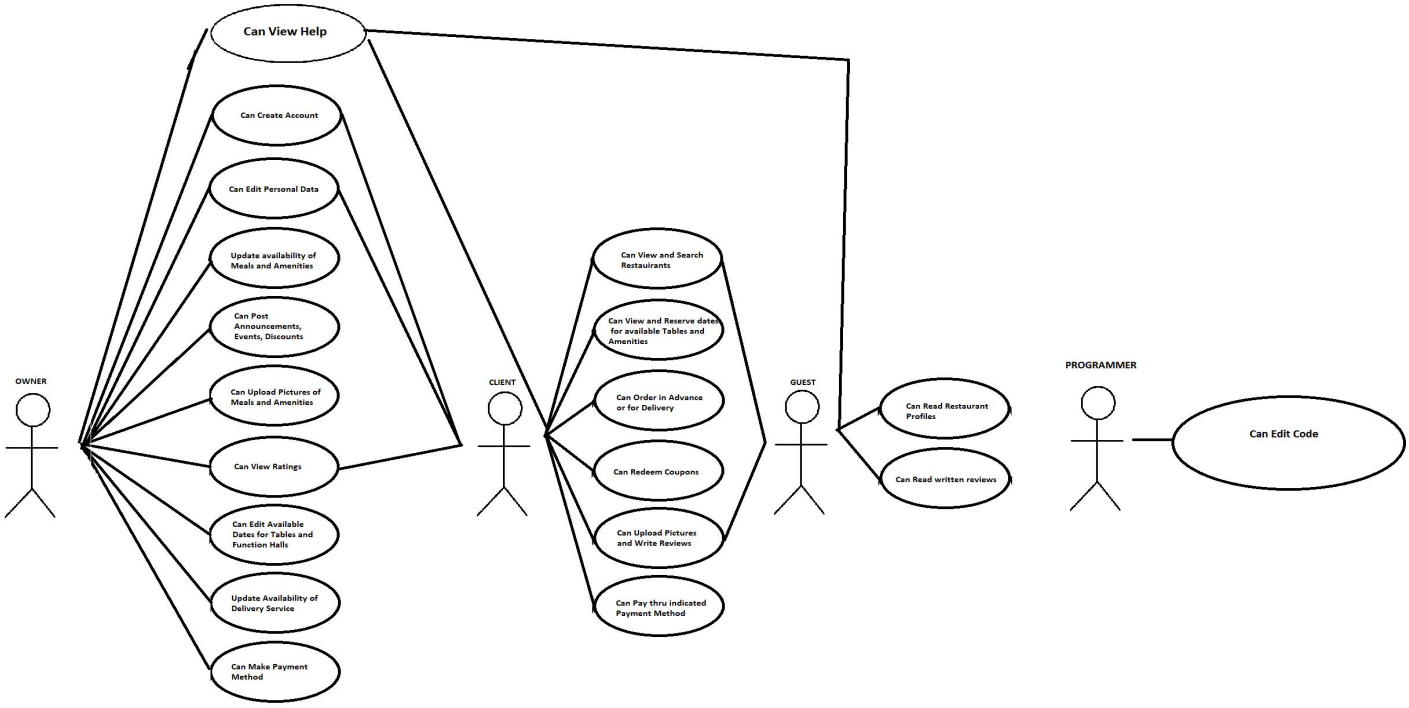
Client's Section:

- View/edit User information
- create account
- Log in
- Search and view restaurants
- Order in advance
- Can redeem coupons
- View and write Ratings

Guest's Section:

- Search and view restaurants
- View and write Ratings

Figures below are to show product functions using use case.




## 2.3 User Classes and Characteristics

| | | |
|---|---|---|
| • Typical User that are classified here as Clients such as residents of Miagao, who wants to use MIA.ph for more efficient ordering and delivery services and more effective advance booking system and maybe looking for a potential restaurants to held their events. | Frequent Users | More Important |
| • Users that are classified as guests who could be tourists who are in town and looking for a guide on where to eat, Vloggers, Film Makers and Food & restaurant critics who could boost the popularity of the restaurant, the system and the town. | | More Important |
| • Programmers who are interested in working on the project by further developing it or fix existing | | Important |

| | | |
|---|---|---|
| • Restaurant/Cafe owners or the User Owner who are looking for a much better way of advertising their restaurants and increase sales. | Frequent Users | More 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

## 2.4 Design and Implementation Constraints

Meals-In-Action is built using the Language php and HTML, it is 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.

## 2.5 User Documentation

Link for mia.ph dummy:

https://drive.google.com/file/d/1X2gczF4Owq_QKgQgsS_M2gHR8RZ0f8zb/view?usp=sharing

## 2.6 Assumptions and Dependencies

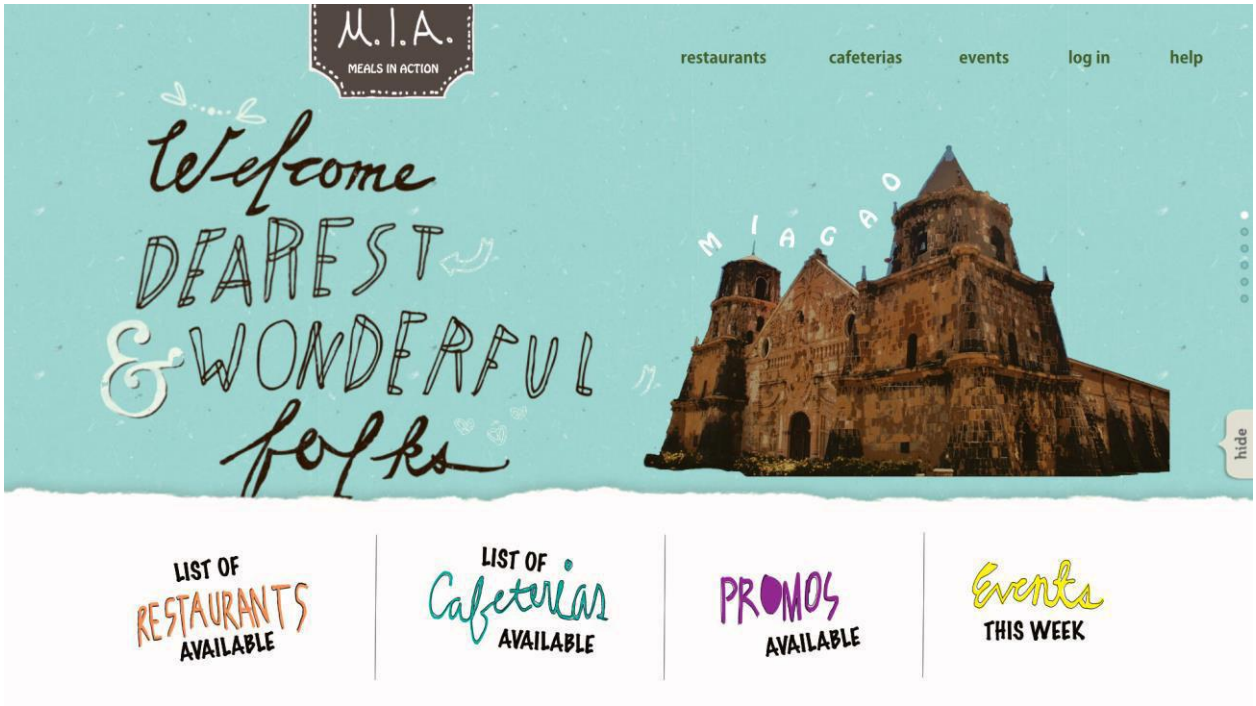
Meals-In-Action is developed in php and HTML and therefore requires the latest version of php & html to be installed in the developers computer, as well as XAMPP where the code is interpreted and sublime where the developer codes. It runs on any browser so it requires an browser to be installed in the 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

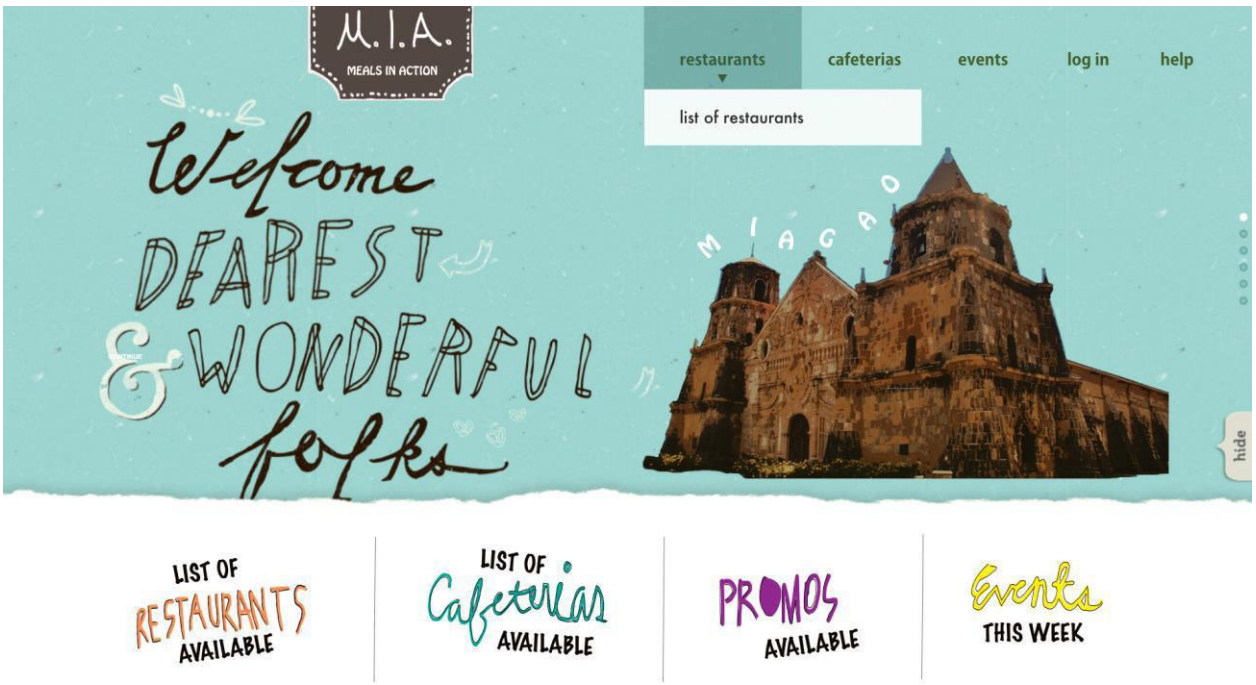
## 3.1 User Interfaces

### 3.1.1 Home and Guest Section

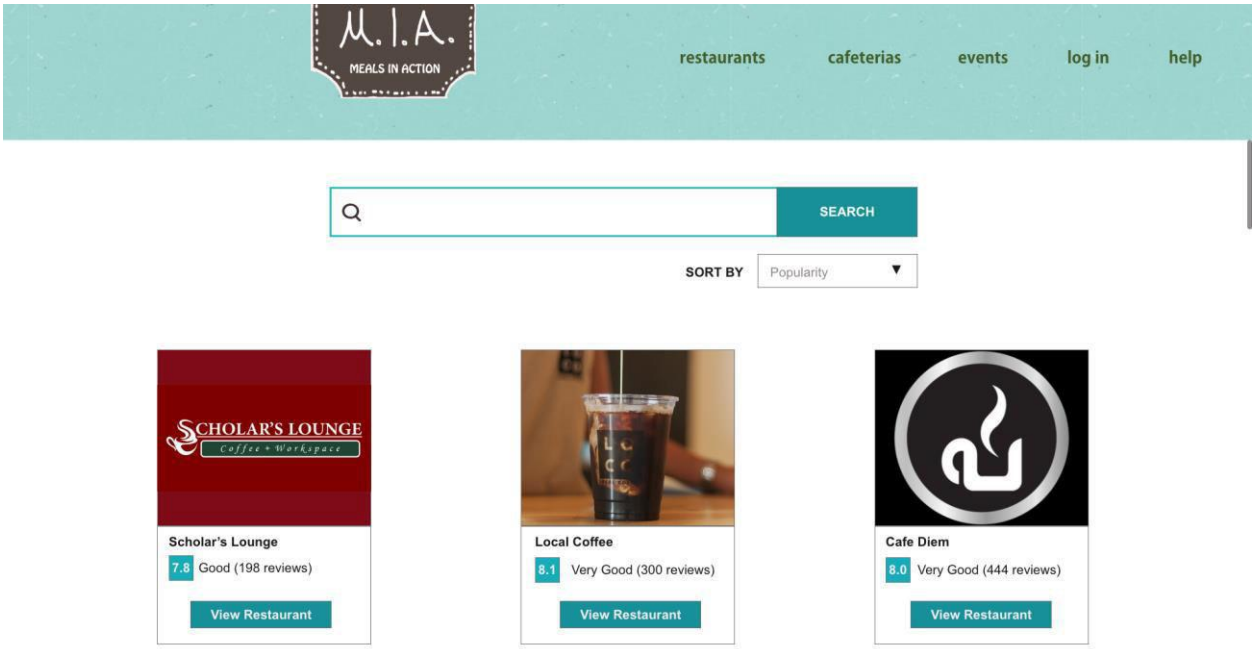
3.1.1.1 M.I.A's Homepage - Displays the Overview page, which includes the logo of the company, the tabs for the list of the restaurants, cafeterias, promos and events and users log in tab that includes the user page.




3.1.1.2 M.I.A's Restaurant Button




3.1.1 3List of Restaurant Button under Restuarant's Button




3.1.1.4 View Restaurant Buttons (Ex. Page from Scholar's Lounge)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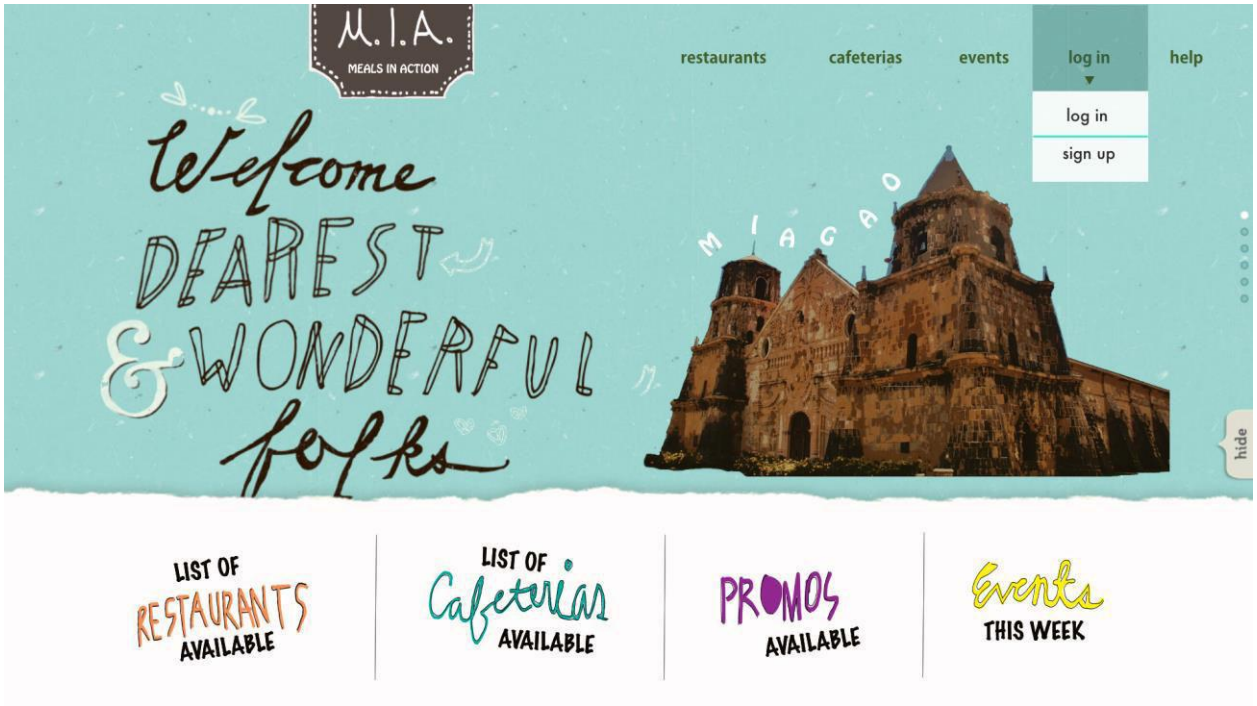
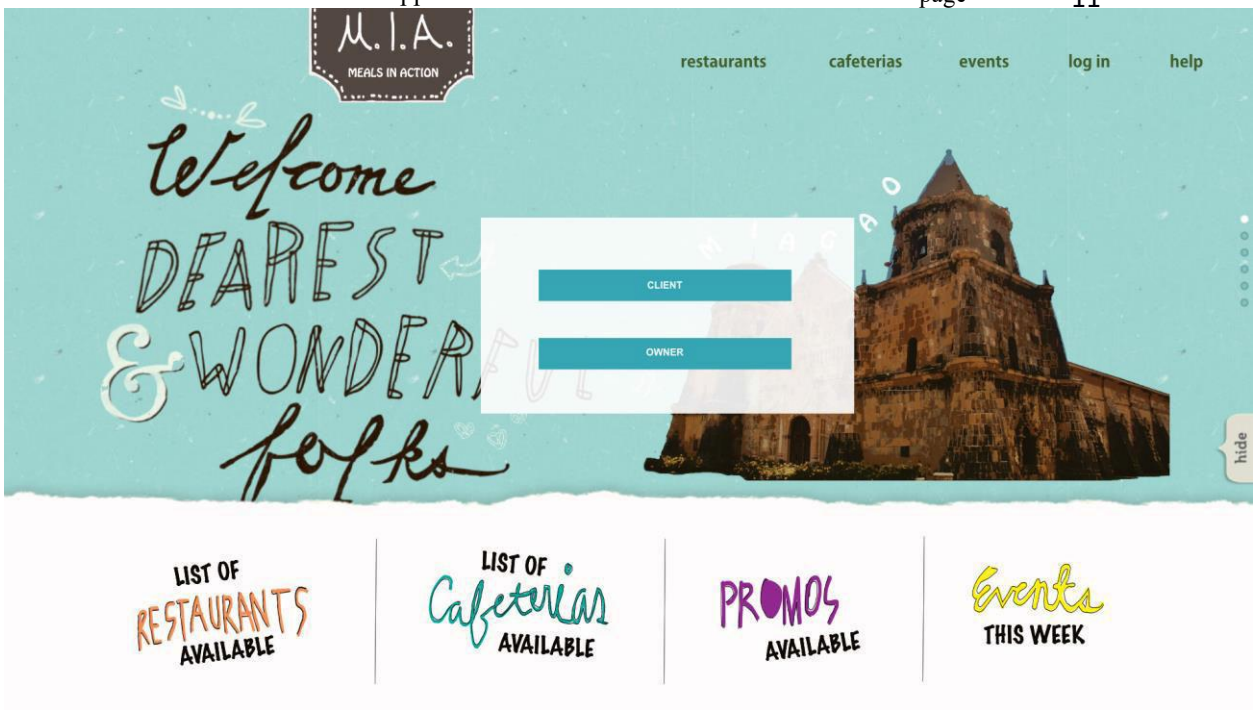
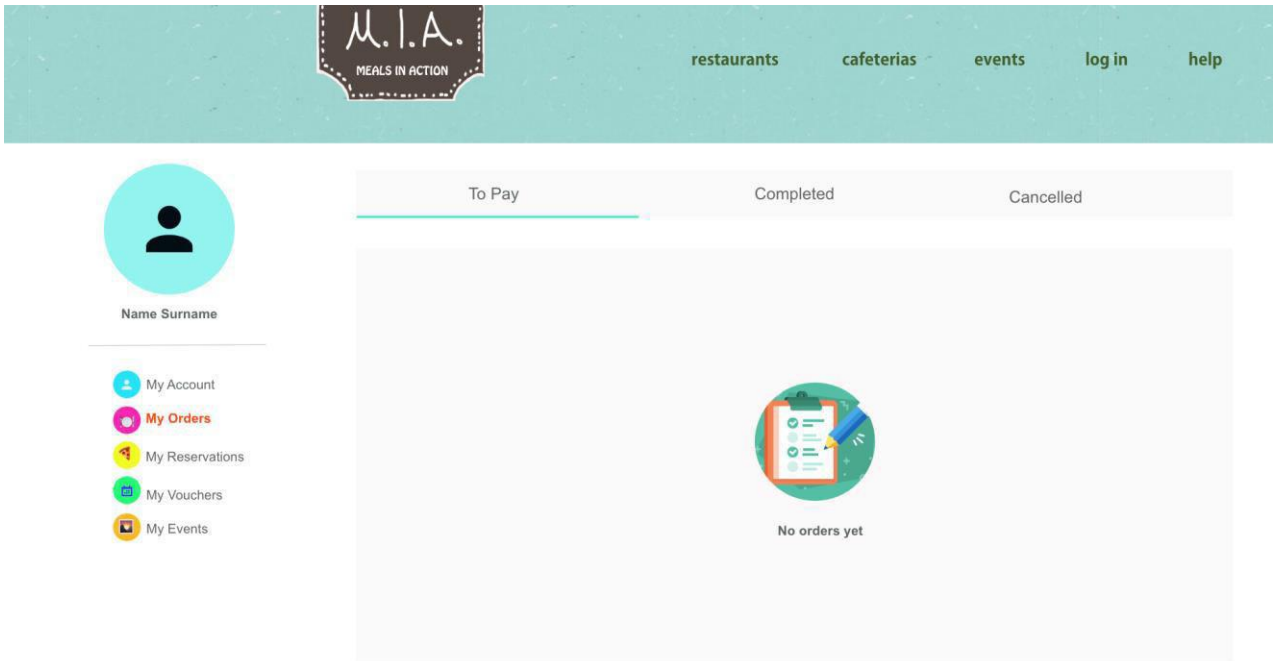
## 3.1.2 User(Client's Page)

### 3.1.2.1.Client Log in/Sign Up button





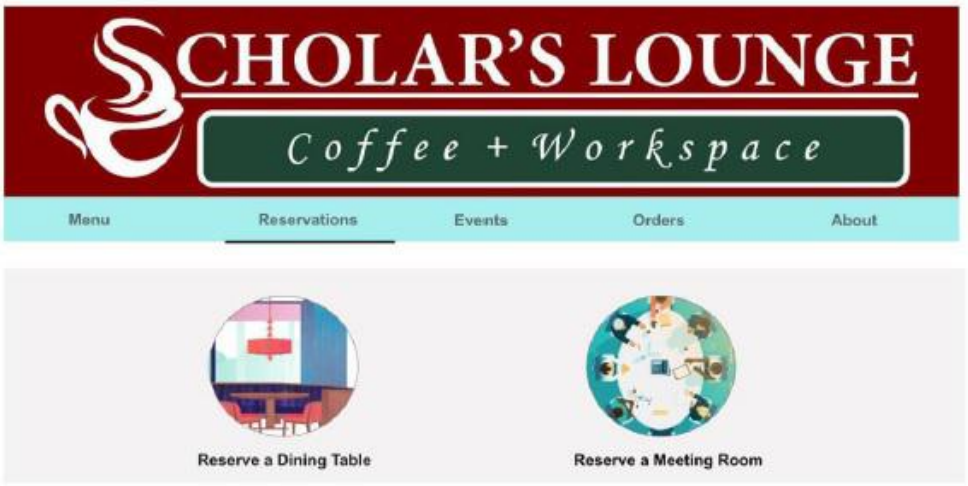

3.1.2.2 Client Homepage



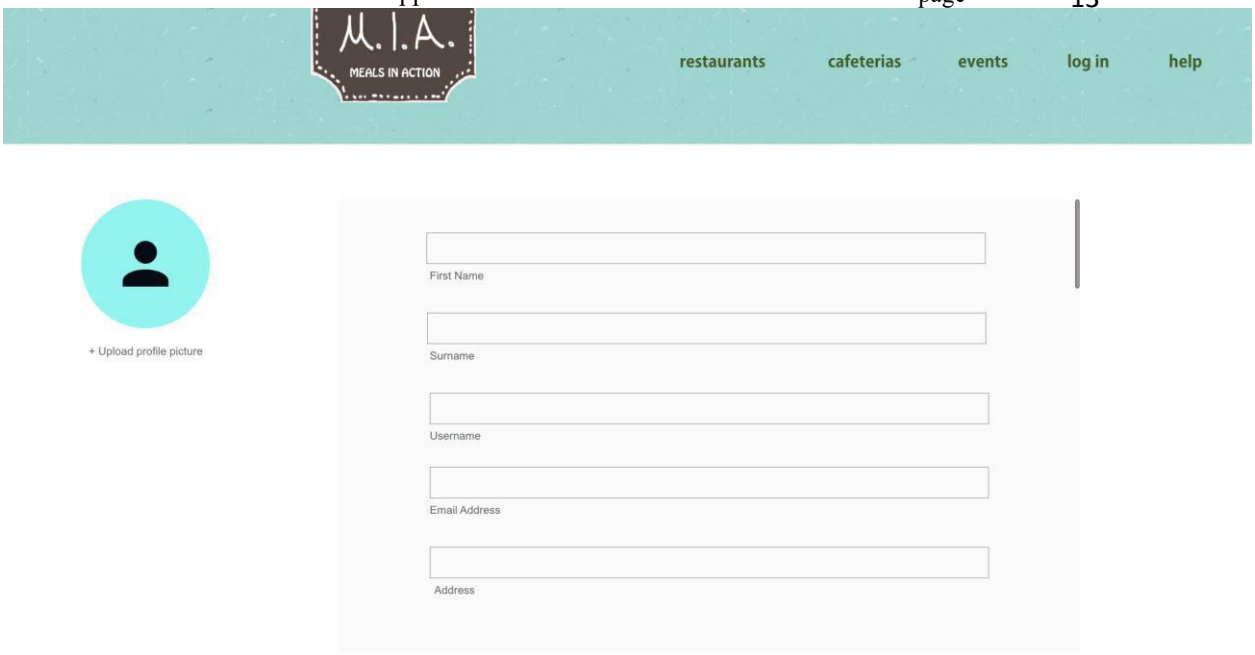

3.1.2.3Client View restaurants page



3.1.2.4 Client Reservation page

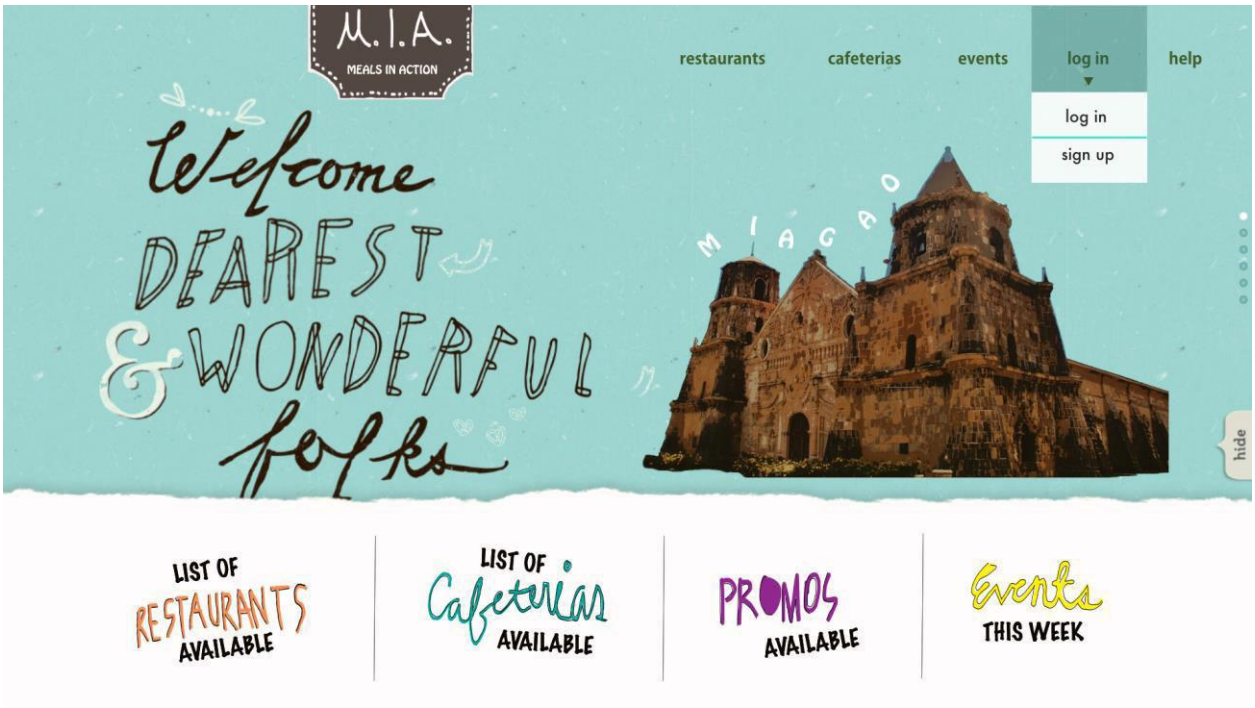



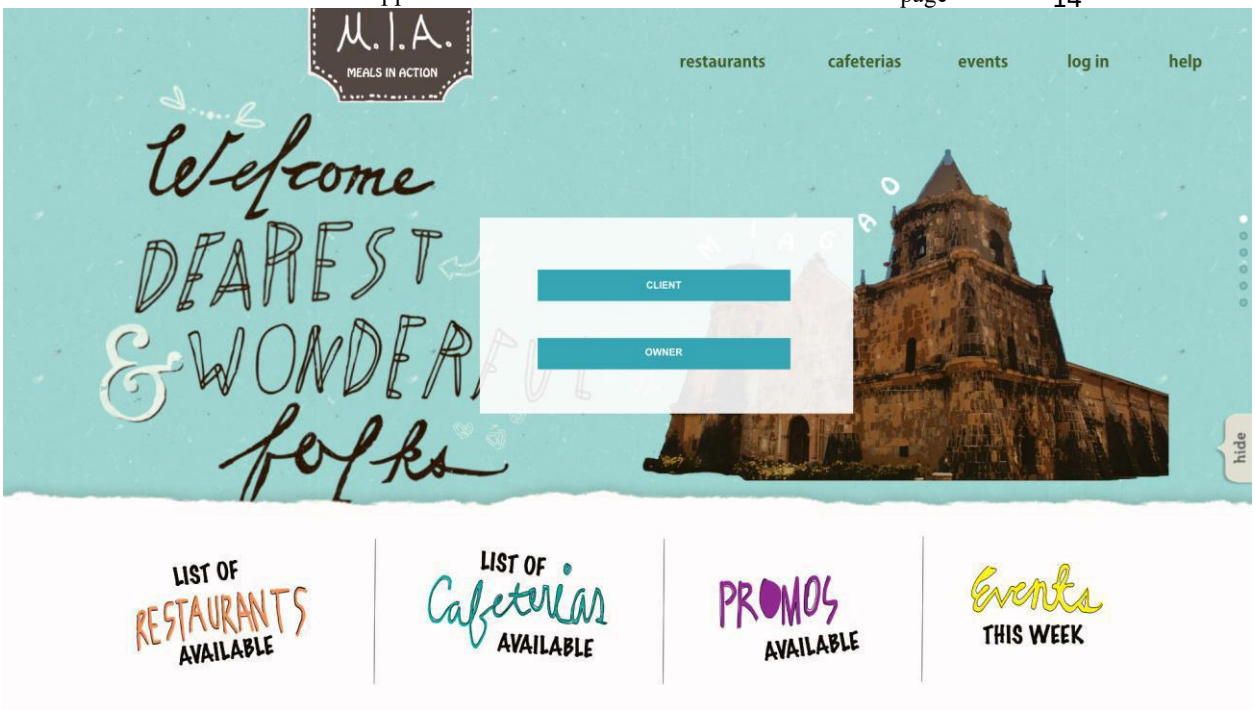

3.1.2.5 Client Sign up page

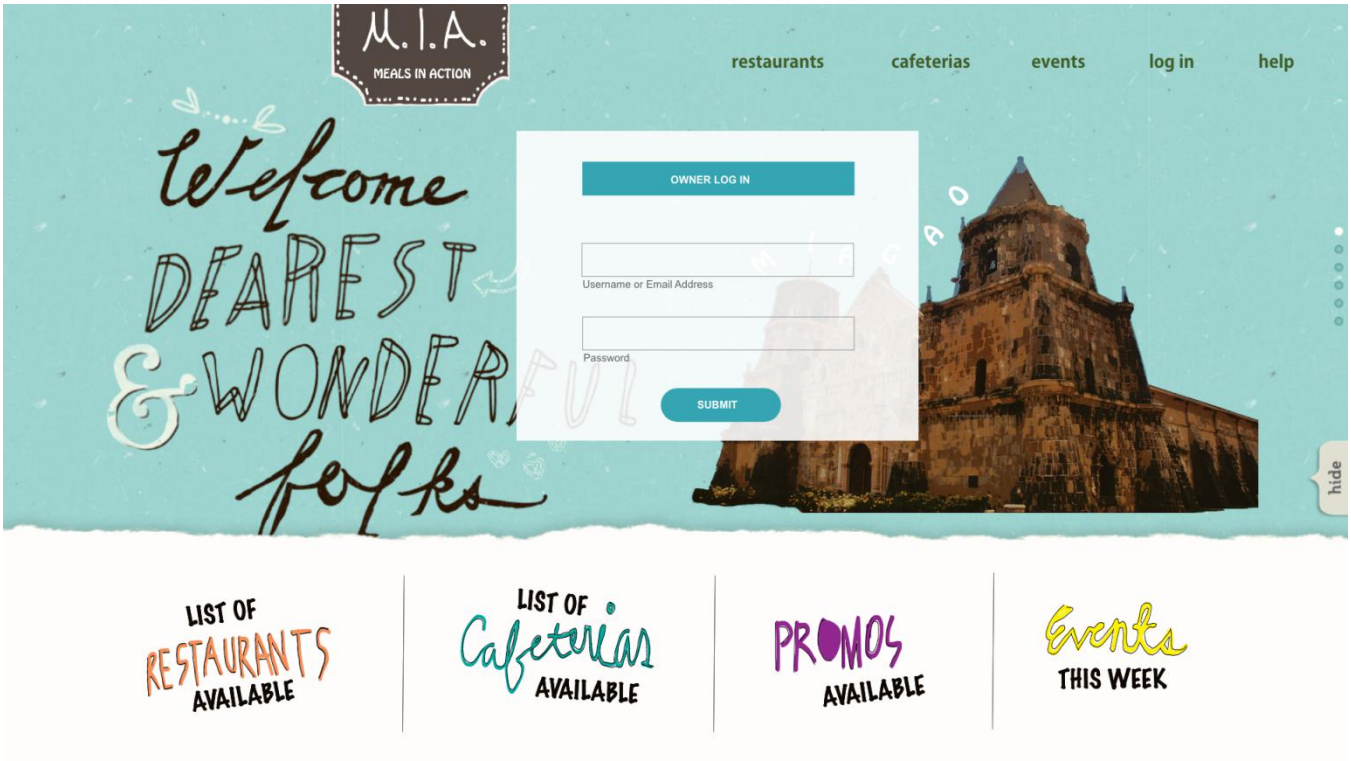



## 3.1.3 Owners Page

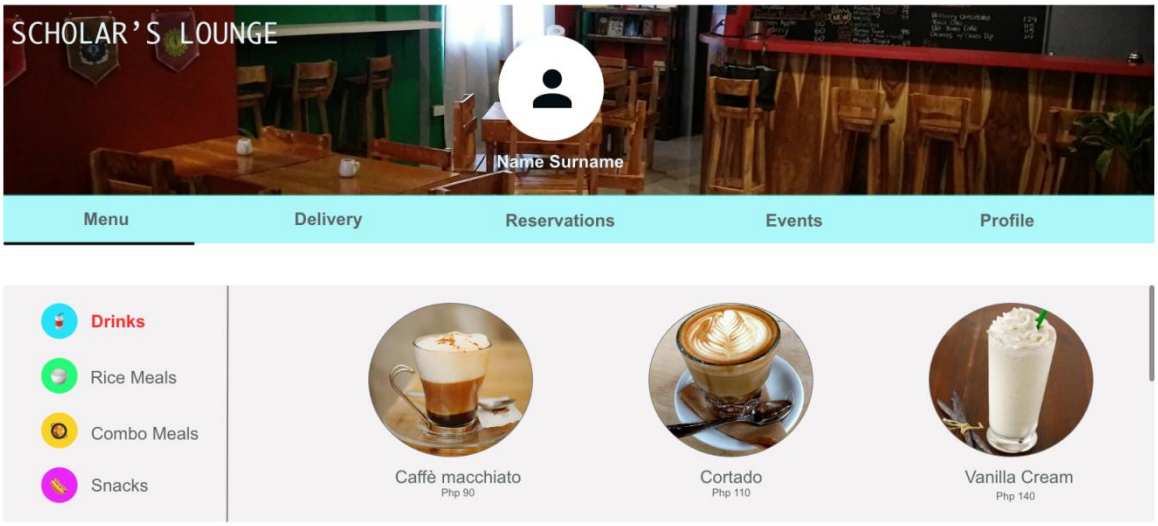
### 3.1.3.1 Owner Log in/Sign up



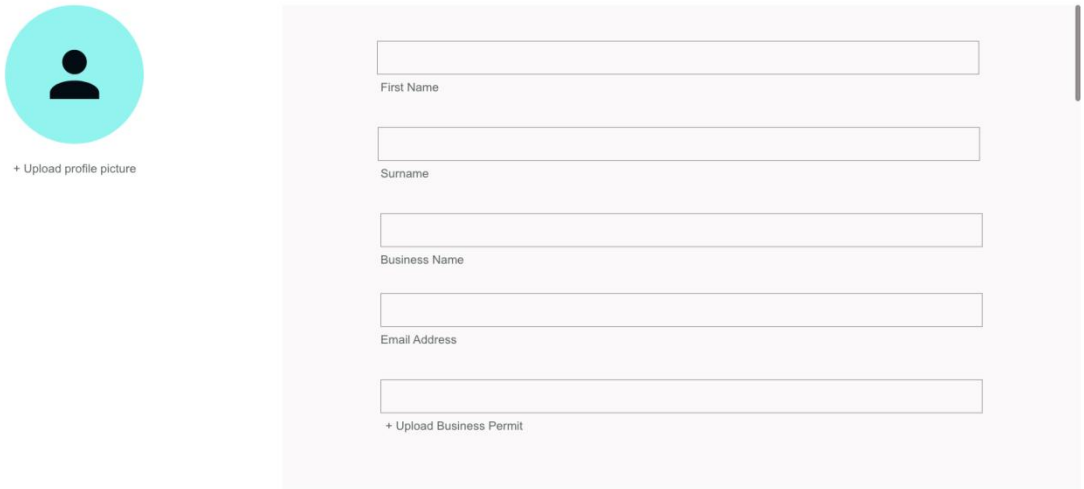


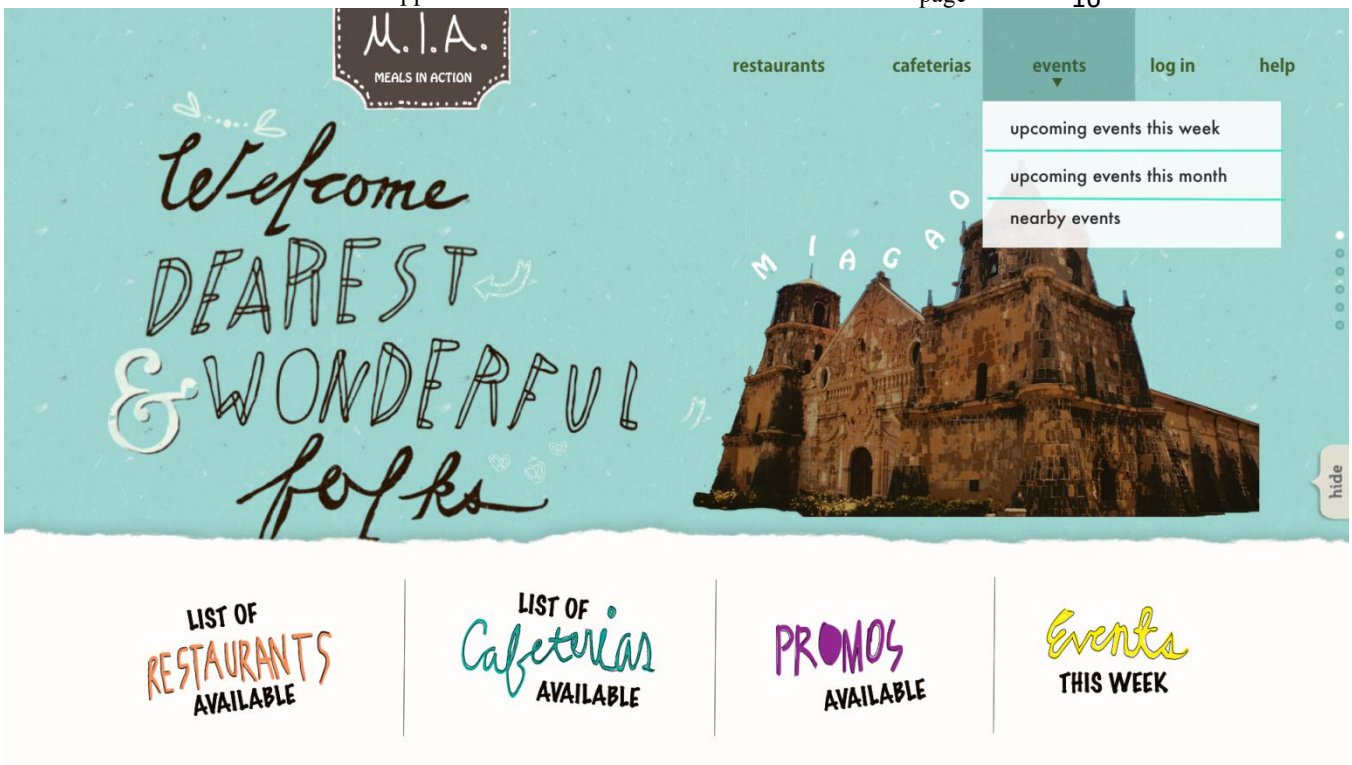

3.1.3.2 Owner's/Restaurant's Page

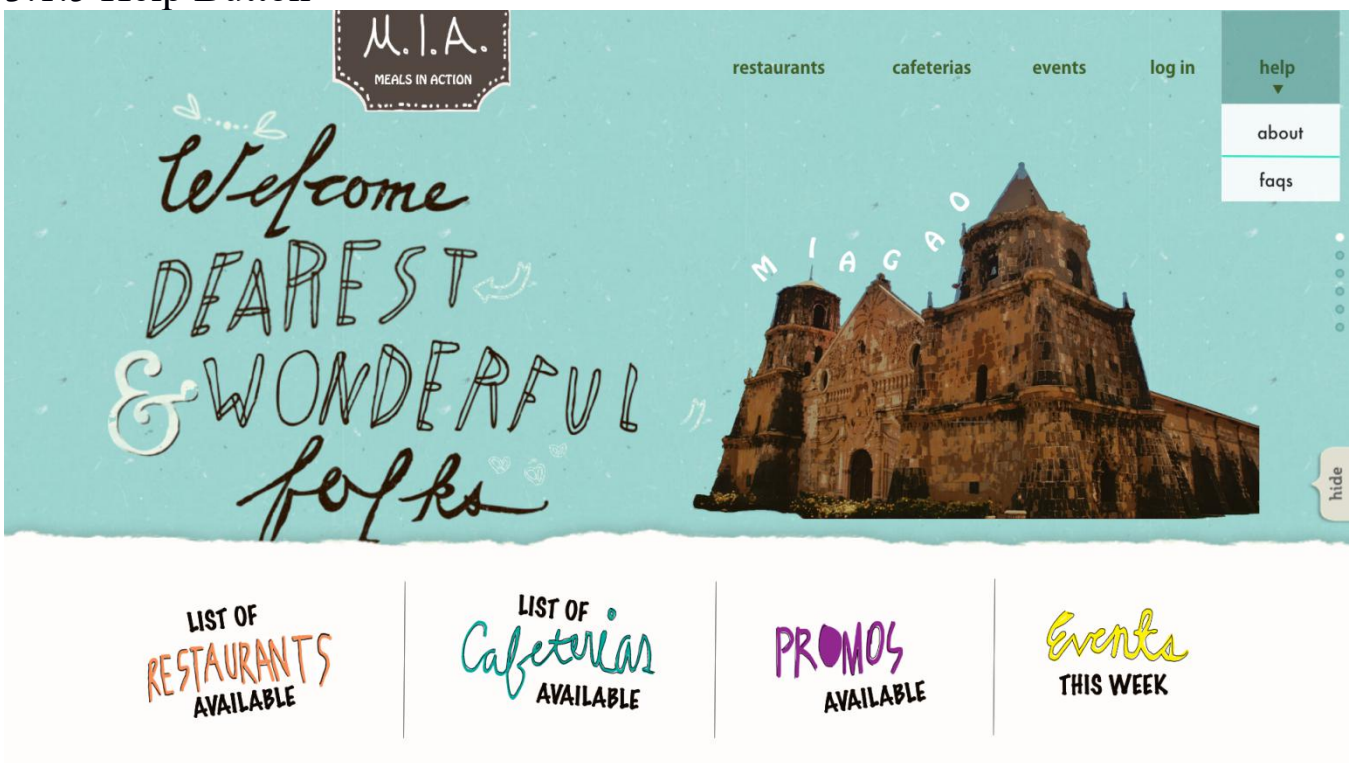

3.1.3.3 Owners Sign Up


## 3.1.4 M.I.A's Events Button




### 3.1.5 Help Button



## 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, HTML and MySQL to be installed in the developers system. Additional information could be found in section 2.7 of this document.

## 3. 4 Communications Interfaces

Meals-In-Action requires fast internet connection to install new plug ins, update already installed ones and update some parts of its components. These are bwoser plug ins such as Java plug-in which can launch a user-activated Java applet on the MIA.ph to its execution on a local Java virtual machine.

# 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. Each requirement is explained in detailed and can be referenced to a requirement in the User Requirements Document of this system.

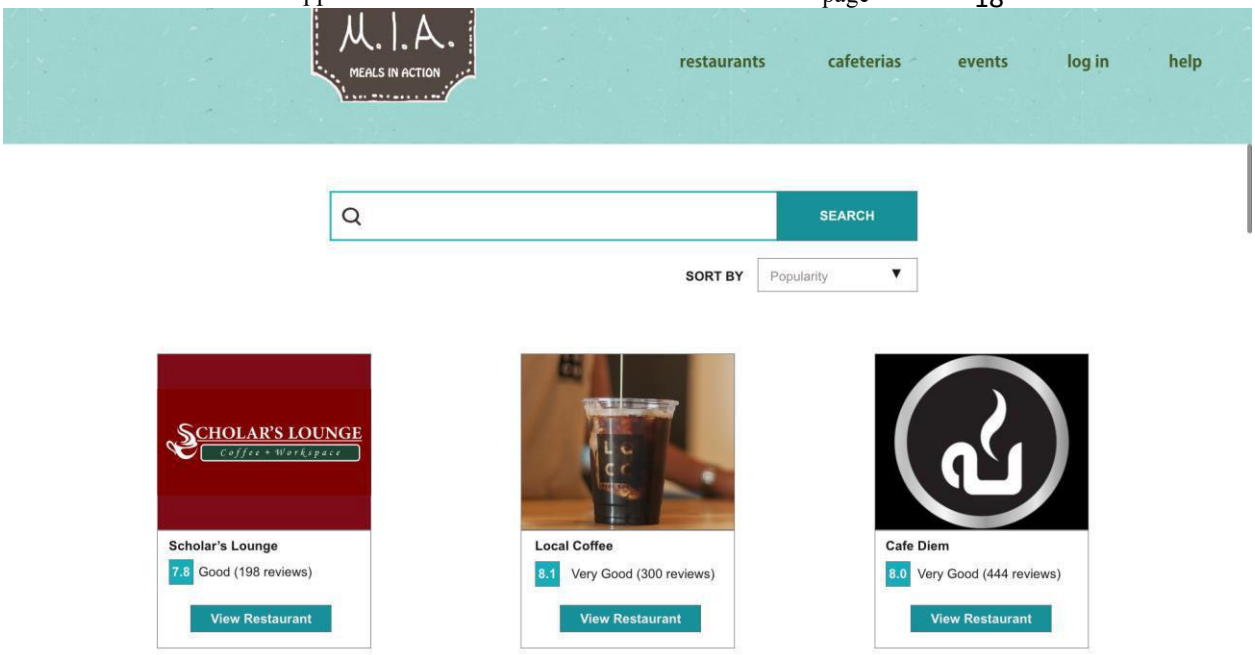
### 4.1 Homepage/Guest Section

4.1.1 Description and Priority

This section displays the home page and allows the user to log-in. It is a high priority function since the user could not access everything in the system without logging in. It also displays the about and help button that would be helpful especially if the users want to know more about the system.

4.1.2 Stimulus/Response Sequences

1. User enters the URL to the search engine. The home page displays and the user can choose what button to click, the list of restaurants button, the list of cafeterias, the log in or the help. (see page 5 for example)
2. If list of restaurant button, the guest can search for the restaurant and view its information and ratings




3. Guest can read reviews too. (See section 3.2)

4.1.3 Functional Requirements

REQ-1: User client or guest search restaurant/cafe
URD Reference: UR C-2 and UR G-0
Priority: Essential
Actor/s: Guest/Cllient
Precondition: User should be connected to the internet to access the System.
Basic Path
1. User click the list of restaurant/cafe button
2. User should fill the search box with the name of the restaurant/cafe
3. If the user wish to go back to the home page, he/she should click the back button of the phone/browser.
Alternate Path: N/A
Post condition: User will be directed to the designated restaurant/cafe page that he/she is searching (Guest/Client).
Exception Path:
a. If the connection is lost and the user entered all the necessary input the field, he/she is required to do it again because the fields were cleared.

REQ-2: View Help:
Priority: Essential
Actor/s: Client/Owner/Guest
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. User should click the help button on the home page.
2. User can now view the FAQs.
3. After reading, user can click the back button of the phone or browser if he/she wish to go back to the home page.
Alternate Path: N/A

Post condition: User is on the help page and the chosen instruction will then be displayed.

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the help page.

REQ-3: Can View Events
Priority: Essential
Actor/s: Guest/Client/Owner
Precondition: should be connected to the internet to access the System.
Basic Path:
1. User should click the Events button on the home page.
2. User can Choose between (Upcoming this week, Upcoming this month, Nearby Events)
3. If the user chooses Upcoming this Week, event posters and details upcoming that week will show up.
4. If the user chooses Upcoming this month, event posters and details upcoming that month will show up
5. If the user chooses Nearby Events, event posters and details close by the location of that user will show up
6. User should click the back button of the phone or browser to go back to the homepage.
Alternate Path: N/A
Post condition: User is on the events page.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the event page.

## 4.2 **Client Section**

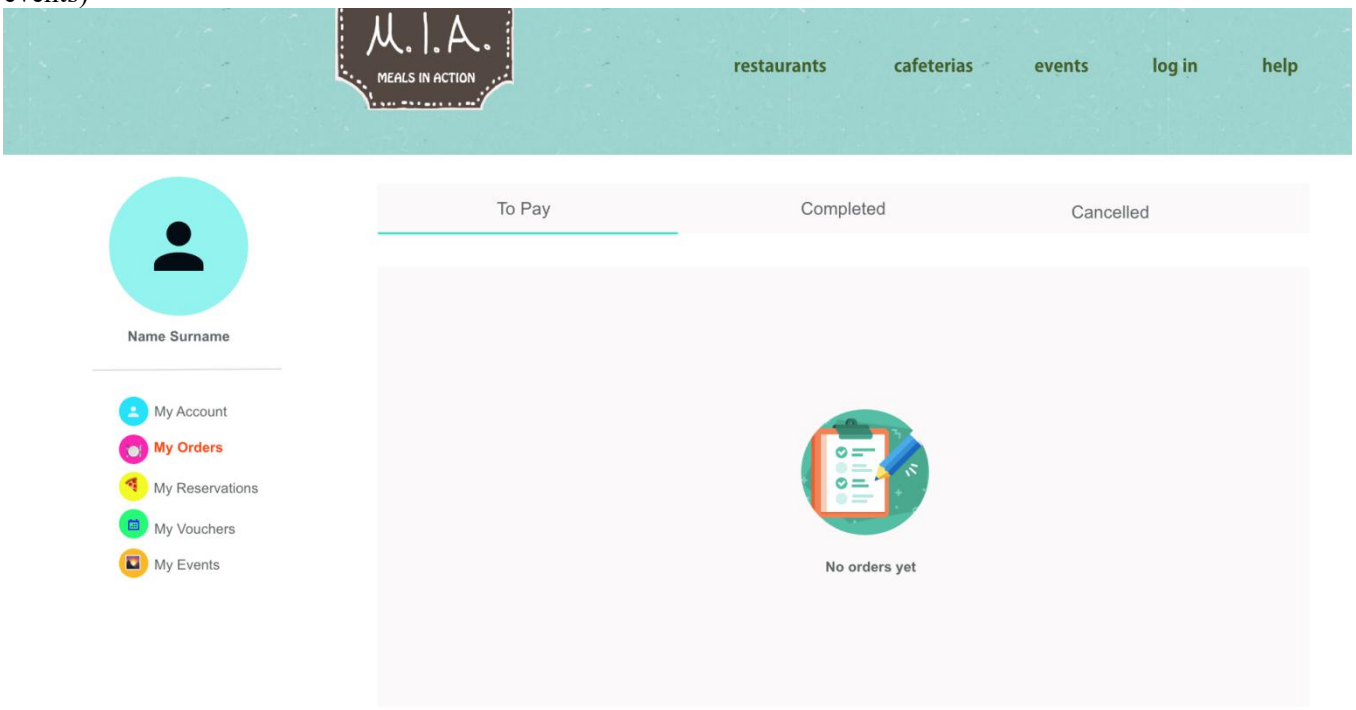
### 4.2.1 Description and Priority

This section displays the Client page and allows the Client to log-in. It is a high priority function since the essence of this system is for the clients to be able to make reservations and order food in advance from the comfort of their home. Clients are allowed to edit their personal information and write reviews as well. If there are changes in the clients appointments, they would be notified.

### 4.2.2 Stimulus/Response Sequences

1. The Client page displays and the client can choose what button to click(My account, My orders, My reservations, My Vouchers, My

events)




2. If the client chooses My Account, Personal information will show up and client can opt to edit those.

3. If the client chooses My orders, Meal Orders and its details will show up and categorized based on their status(To pay, Completed, Canceled)

4. If the client chooses My Reservations, Reservation information will show up.

5. If the client chooses My Vouchers, allowed Vouchers will show up.

6. If the client chooses My Events, Events that the client booked will show up.

4.2.3 Functional Requirements

REQ-1: Client Log in/Create account
URD Reference: UR-C-1
Priority: Essential
Actor/s: Client
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a client in the homepage.
2. User enters username and password in the box.
Alternate Path: N/A
Post condition: The user is on the client page. Buttons (My account, My orders, My reservations, My Vouchers, My events) will be then displayed.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to and not the client page for safety reasons.

REQ-2: Personal Data on My Account Page
URD Reference: UR-C-1
Priority: Essential
Actor/s: Client

Precondition: User should be connected to the internet to access the System.
Basic Path:
3. The user Clicks log in as a client in the homepage.
4. User enters username and password in the box.
5. User clicks My Account
6. User clicks edit personal information
Alternate Path: N/A
Post condition: The user is on the My account page and can view/edit personal information.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the client page for safety reasons.

REQ-3: User Orders Page
URD Reference: C-5
Priority: Essential
Actor/s: Client
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a client in the homepage.
2. User enters username and password in the box.
3. User searches for the restaurant and click it to see the meals available.
4. If accepted by the restaurant, details can be further seen on the My Orders page from the Clients account on the table To pay.
5. After payment is established, It will then be moved to Completed Column with its details.
Alternate Path: N/A
Post condition: The user is on the Restaurants page and can view information such as available meals.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the client page for safety reasons.

REQ-4: Redeem vouchers/coupons
URD Reference: UR C-7
Priority: Essential
Actor/s: Client
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a client in the homepage.
2. User enters username and password in the box.
3. User clicks My Voucher
4. User clicks redeem now.
Alternate Path: N/A
Post condition: The user is on the My voucher page and can redeem those vouchers.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the client page for safety reasons.

REQ-5: Amenities Reservations
URD Reference: UR C-3 & UR C-4
Priority: Essential
Actor/s: Client
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a client in the homepage.

2. User enters username and password in the box.
3. User searches for the restaurant and click it to its amenities make a reservation
4. If accepted by the restaurant, details can be further seen on the My events page from the Clients account.

Alternate Path: N/A

Post condition: The user is on the Restaurants page and can view information such as available amenities.

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the client page for safety reasons.

REQ-6: Writing a Review
URD Reference: UR C-6
Priority: Essential
Actor/s: Client
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a client in the homepage.
2. User enters username and password in the box.
3. User searches for the restaurant and clicks write a review.

Alternate Path: N/A

Post condition: The user is on the Restaurants page and can view his'/her's and others reviews,

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the client page for safety reasons.

REQ-7: Client Payment
URD Reference: UR C-8
Priority: Essential
Actor/s: Client
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a client in the homepage.
2. User enters username and password in the box.
3. User goes to My Orders tab.
4. Under pending, user clicks pay now and pay through any accepted payment methods

Alternate Path: N/A

Post condition: The user is on the My orders page and can see the order on the completed tab.

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the client page for safety reasons.

## 4.3 **Owner Section**

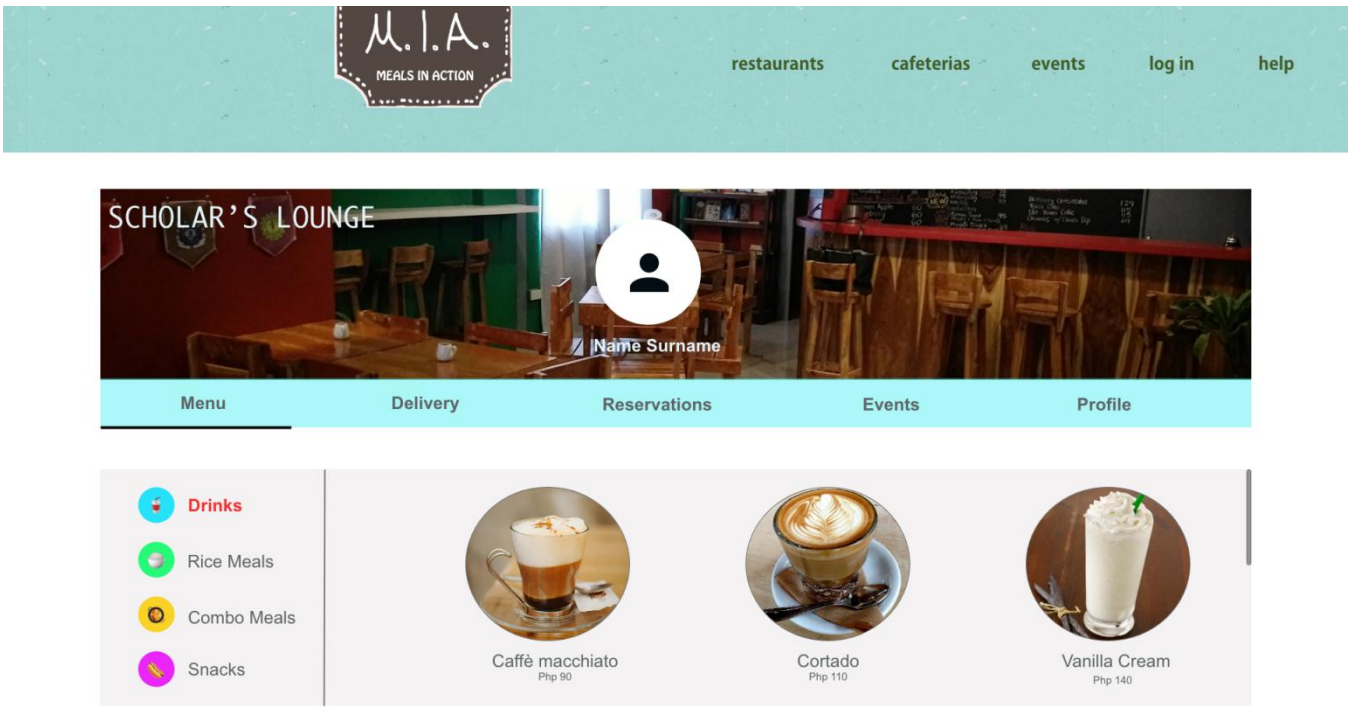
### 4.3.1 Description and Priority

This section displays the Owner page and allows the Owner to log-in. It is a high priority function since the owner is the one to update meals available, to accept reservations and orders fro the clients. Owners can edit personal information as well as restaurants information.

### 4.3.2 Stimulus/Response Sequences

1. The Owner page displays and the owner can choose weather to edit his/her personal information or restaurants information(Drinks, Rice Meals, Combo Meals, Snacks).

2. If the owner chooses Drinks, List of Drinks will show up with its details and price. And the owner can choose to edit it.
3. If the owner chooses Rice Meals , List of Rice meals will show up with its details and price. And the owner can choose to edit it.
4. If the owner chooses Combo meals, List of combo meals will show up with its details and price. And the owner can choose to edit it.
5. 4. If the owner chooses Combo meals, List of combo meals will show up with its details and price. And the owner can choose to edit it.




4.3.3 Functional Requirements

REQ-1: Owner Log in/Create/Edit account Page
URD Reference: UR O-0 & UR O-1
Priority: Essential
Actor/s: Owner
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a owner in the homepage.
2. User enters username and password in the box.
3. User Clicks edit information
Alternate Path: N/A
Post condition: The user is on the owner page. Buttons (Drinks, Rice Meals, Combo Meals, Snacks) will be then displayed.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to and not the owner page for safety reasons.

REQ-2: Availability of Meals,Drinks & Amenities Page
URD Reference: UR O-2 & UR O-4

Priority: Essential
Actor/s: Owner
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a owner in the homepage.
2. User enters username and password in the box.
3. Owner is directed to owner page and clicks either Drinks, Rice Meals, Combo Meals, Snacks
4. Whichever one the owner clicks, the owner will the choose to: Edit availability, Edit price, Edit Information.
5. Owner could also click add a picture to upload a picture of the meal
Alternate Path: N/A
Post condition: The user is on the Restaurants Homepage. Buttons (Drinks,Rice Meals, COmbo Meals, Snacks) will be then displayed.
Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to and not the owner page for safety reasons.

REQ-3: Amenities Reservations
URD Reference: UR O-7 & UR O-4
Priority: Essential
Actor/s: Owner
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a owner in the homepage.
2. User enters username and password in the box.
3. Owner is directed to owner page and clicks Booking Requests.
4. Owner can either accept booking or reject it.
5. After accepting,further details will be shown in reservations tab of the restaurants profile.
6. Owner could also upload pictures of the amenities by clicking upload a picture.
Alternate Path: N/A
Post condition: The user is on the Restaurants reservations page and can view information

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the owners page for safety reasons.

REQ-4: Food Deliveries
URD Reference: UR O-8
Priority: Essential
Actor/s: Owner
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a owner in the homepage.
2. User enters username and password in the box.
3. Owner is directed to owner page and clicks Delivery Requests.
4. Owner can either accept delivery or reject it.
5. After accepting,further details will be shown in deliveries tab of the restaurants profile.
6. Owner edits availability of the delivering services
Alternate Path: N/A
Post condition: The user is on the Restaurants deliveries page and can view information

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the owners page for safety reasons.


REQ-4: Advance Food ordering
Priority: Essential
Actor/s: Owner
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a owner in the homepage.
2. User enters username and password in the box.
3. Owner is directed to owner page and clicks Order Requests.
4. Owner can either accept order or reject it.
5. After accepting,further details will be shown in orders tab of the restaurants profile.
Alternate Path: N/A
Post condition: The user is on the Restaurants orders page and can view information

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the owners page for safety reasons.

REQ-5: Payments
URD Reference: UR O-9
Priority: Essential
Actor/s: Owner
Precondition: User should be connected to the internet to access the System.
Basic Path:
1. The user Clicks log in as a owner in the homepage.
2. User enters username and password in the box.
3. Owner is directed to owner page and clicks Personal Information.
4. Owner can now edit accepted payment methods(Bank, Online, Cash on Delivery, Over the Counter)
5. After double checking the information, owner then saves it and can edit it anytime.
Alternate Path: N/A

Post condition: The user is on the Restaurants orders page and can view information

Exception Path: If there is a connection failure, the server returns to wait state. When the connection is establish user will be redirected to the home page and not the owners page for safety reasons.

# 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.

# 6. Other requirements

The quality of the system is maintained in a way that it is user-friendly. It must be accurate and reliable, secured, must have an average running time, and it must be compatible in any operating system.

# Appendix A: Glossary

MIA – Meals-in-Action

GUI – Graphical User Interface: a form of user interface that users can interact with graphical icons.

CPU – Central Processing Unit: is the electronic circuitry within a computer that carries out instructions of a computer program by performing the basic arithmetic, logic, controlling and input/output operations specified by the instructions.

RAM – Random Access Memory: form of computer data storage that stores data and machine code currently being used.

XAMPP – Cross Platform, Apache, MariaDB, PHP, PERL: is a free open-source cross-platform web server solution stack package developed by Apache friends, consisting mainly of the Apache HTTP server, MariaDB database, and interpreters for scripts written in PHP and Perl programming languages.

HTML – Hypertext Markup Language: is the standard markup language for creating web pages and web applications.

OS – Operating System: computer system software that manages the hardware and software of a computer.PHP – Hypertext Preprocessor: is a service side scripting language designed for Web development, and also used as a general-purpose programming language.