Software Requirements Specification

for

Online Food Ordering System

ICT 2212 Skills Development Project II

2017/2018 Batch

Department of Information & Communication Technology

Faculty of Technology

Rajarata University of Sri Lanka

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Content

1. Introduction

In the past, the food requirement was completed by people who live in the Sri Lanka using several ways but today people in competitive world find sortest path for fulfilling the food requirement with new technology.In that situation online food ordering concept is invented. this concept is very easy and save money and time of people.

The online Food ordering system that we are proposing here mostly simplifies the ordering process for both the customer and the restaurant or the hotels. This System will be an interactive and up-to-date menu with all available options for all food items.There is web application and mobile application .The web application interact with user or customer and mobile application interacts with distributors(Restaurant Employees) who are delivering foods.

Customer(User) can choose one or more food items to place an order which will land in the Cart. And that Cart will contain all the ordered items for delivering the order to the customer. And Customers can view all the order details in the cart before checking out. In the end, the customer gets order confirmation details. Once the order will be placed it will enter the database system and retrieved that information. This System will allow Restaurant Employees(Distributors) to rapidly go through the orders as they are received and process all orders efficiently for delivering and effectively with minimal delays and confusion to make happy the customers.

1.1 Purpose

Defining and describing the functions and specifications of the Online Food Ordering System (OFO) is the primary goal of this Software Requirements Specification (SRS). This Software Requirements Specification illustrates, in clear terms, the system's primary functionality is collected from general people and specified by our customer requirements.

1.2 Project Scope

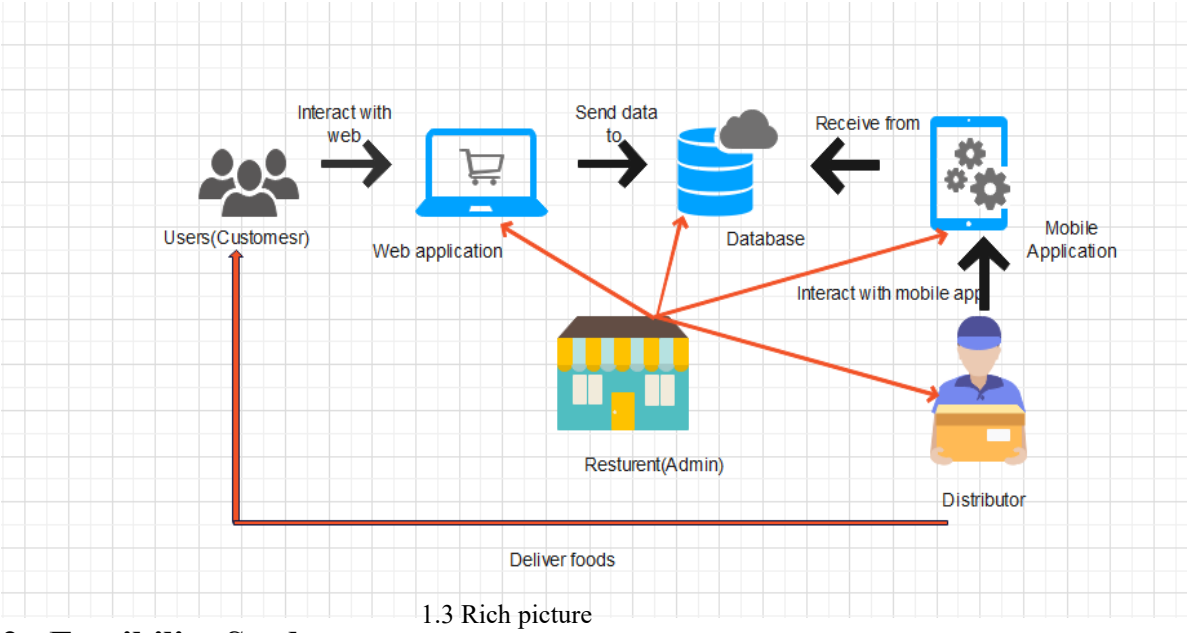
The software system being produced is called Online Food Ordering System(OFO). It is being produced for a customer interested in Buying Food items via the Internet. This system is largely available for anyone who have the Internet Connection(Access web application). The proposed software product is the Online Food Ordering System (OFO) for the Food industry in Sri Lanka. It will be used to maintain various hotels and restaurants.The Customers will use the system to give daily food orders to their needs if it is necessary for them. The customer will be able to view their ordered items and manage them.

The project Online Food Ordering System (OFO) is specially developed for General people of Sri Lanka who love and want to buy online foods. it's an easy process to get food items. They will find various types of food items and can choose and make orders online. After completing the order, our delivery guy(Distributors) will deliver the product to the customer and receive the money from the customer. Customers can also cancel his/her order if you don't like the Food quality live, we will only cost the delivery charge at that time.

The admin of the system will be able to define and manage all the food items and price and quantity, date and location. The admin then will select the order and confirm it then monitor the status of the order for a specific customer. Along with that, the admin will also add a new food item to the system along with its price. Moreover, the admin will handle all the necessary roles for this system. The customer can cancel the order or modify it by login to the system.

The purpose of this document(SRS Document) is to describe all the requirements for the targeted project the Online Food Ordering System (OFO) for all the restaurant and hotels.The intended audience includes all stakeholders in the potential system.

1.3 Rich Picture



1.3 Rich picture

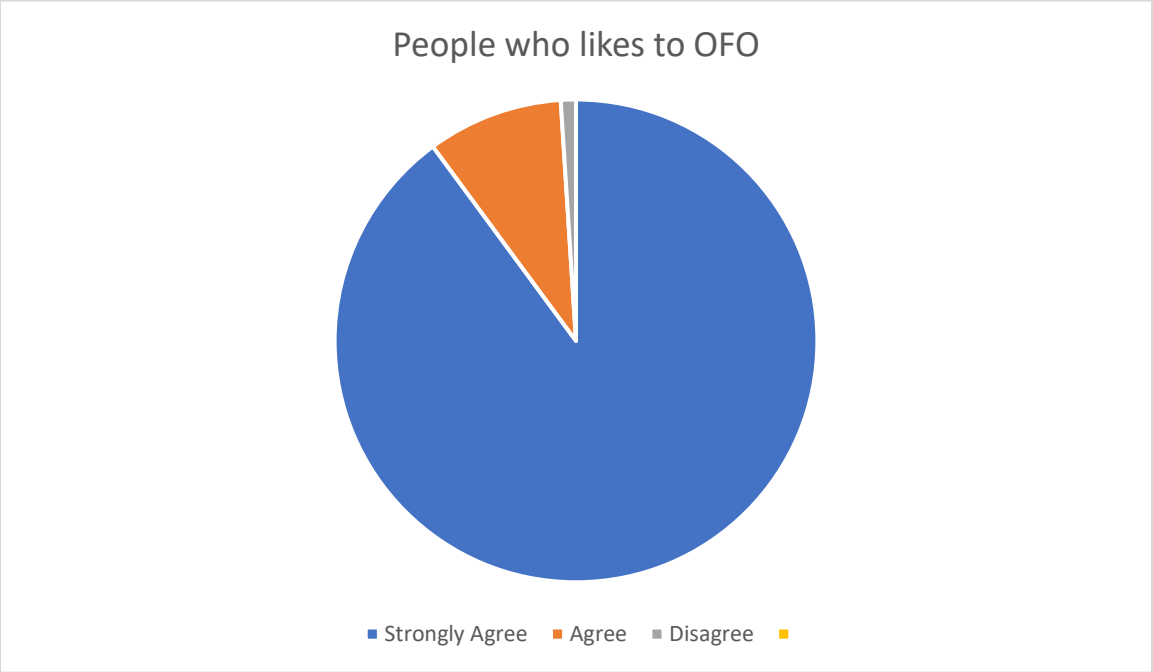
2. Feasibility Study

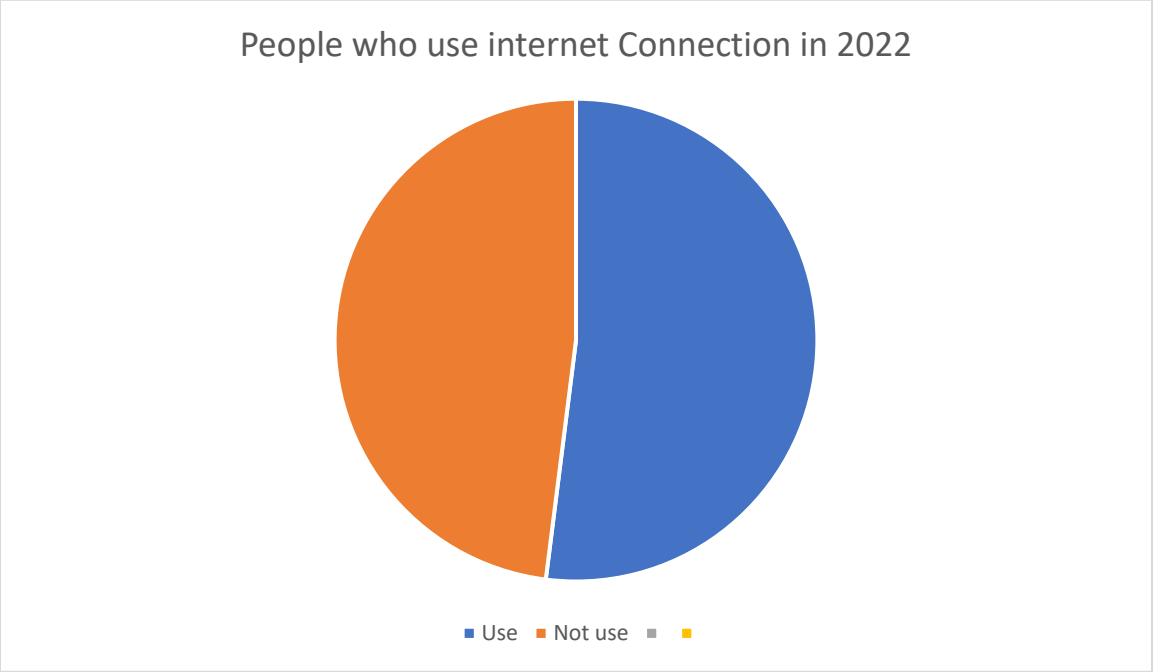
2.1 Technical Feasibility

In Technical feasibility of the online food ordering system , Web application and Mobile application are included to the system.Web application interacts with customer(User) and mobile application deals with person (Distriutors) who deliver the foods.Laravel Frame work and Bootsrap(It is based on the PHP,HTML,CSS) are used to build web application and Android Studio(Java based) is used to build the Mobile application.These two have local database(MySql) to connect each other.

2.2 Organizational Feasibility

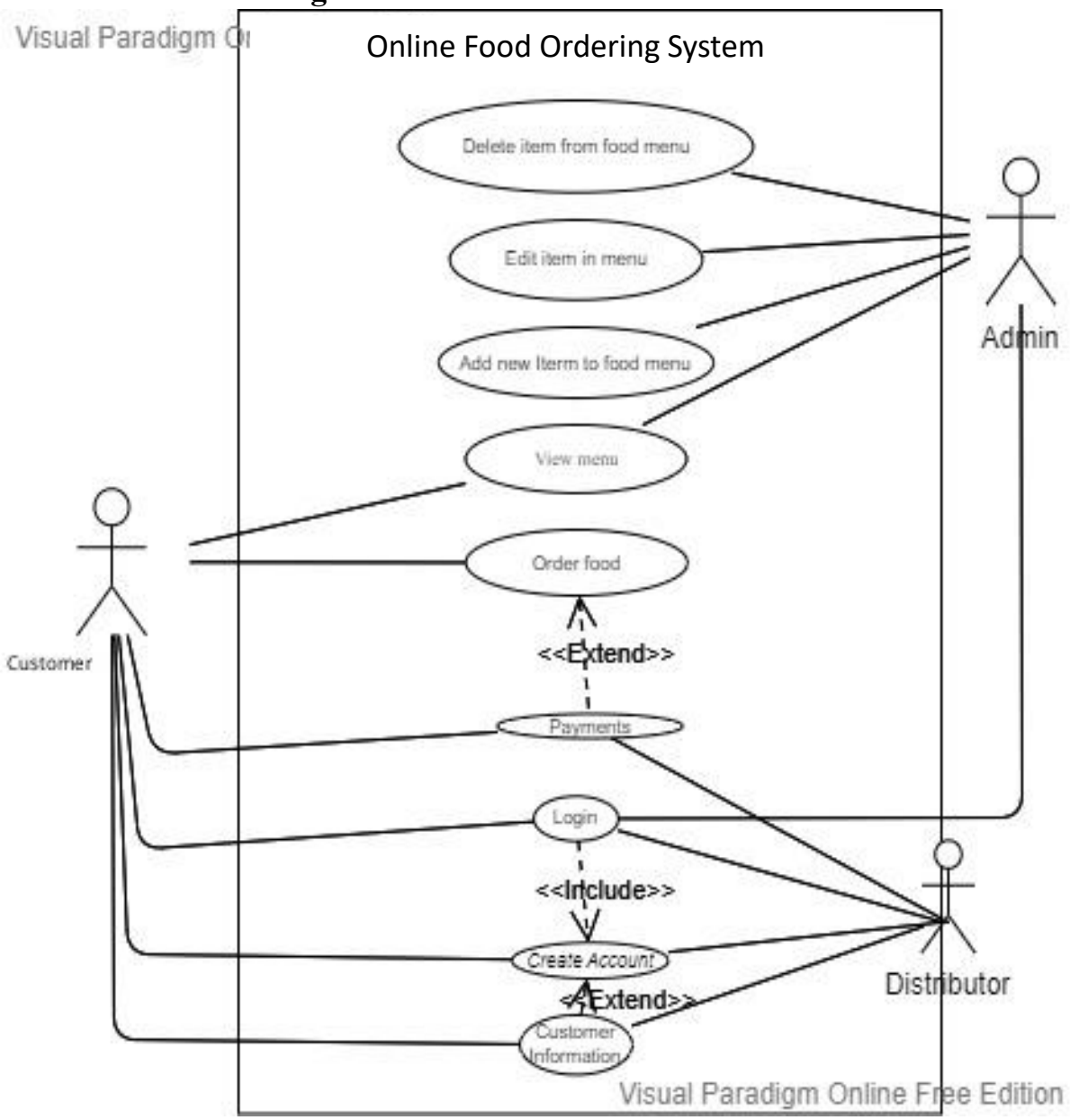
We have surveyed based on the town for getting an idea to is feasible this system in the market. We didn't conduct the surveyon in rural ares in the Sri Lanaka because This is the internet based on system and There is no internet connection for rural area.We focusd only cities.After we have analyzed that data and we got a final report. According to that report, The majority of the respondents strongly agree with the new system.





3. Functional Requirements

3.1 Use case diagram



3.1.1 Brief description about actors and use cases

Actors

Customer: This represents the set of customers, which are the clients who will be using this web application.

Admin: Person who control whole system.he or she can maintain database,web application,mobile application.

Distributor: person who delivers the foods to relevant destination.

UseCases

Delete item from food menu: This usecase describes to remove item from menu.It can be accessed by admin.

Edit item in menu: This usecase describes to edit item's details(price,name) from menu.It can be accessed by admin.

Order food: This usecase describes to Order food from menu.It can be accessed by Customer.

Add new Item to food menu: This usecase describes to add new item to menu.It can be accessed by admin.

View menu: This usecase describes View menu list .It can be accessed by admin and Customer.

Payments: This usecase describes Payments .It deals between customer and distributor in offline.

Login: This use case describes how Customer, Distributor and admin login into the system.

Create Account: This use case describes that user of the system can create account with their details.

Customer Information:here include the customer information (name,phonenumber,address,email)

3.2 Use case scenarios and Alternative scenarios

Use Case	View Menu
Actor	Customer
Description	This use case provides all product which is are available in the restaurant.
Pre-Condition	The student already logged into the system.
Flow of event	1. Get the home page 2. Go view product tab 3. Select the category would you want. 4. Searching the meal for available. 5. View Result.
Post-condition	View the all details about customer who are search in the system.

Use Case	Order Food
Actor	Customer
Description	This use case describes the how the select menu & order that menu.
Pre-Condition	Customer must have login to the system before.
Flow of event	1. Get the home page. 2. Go to the suitable category would you want under the (break first, lunch, dinner) list. 3. Tap the order now button. 4. View the ordering Details. 5. Enter the quantity Details. 6. Click the place order now Button.

Alternative Path	4.1 If user entered old password is incorrect, system will ask for re-enter correct password. And user has forgot password, the system give another option as the Email confirmation.
Post-condition	Successfully changed

Use Case	payments
Actor	Customer
Description	The use case describe the how to do the payments for selected product or order.
Pre-Condition	User must have logged into the system
Flow of event	1. Move to the payment page. 2. Select the payment method which you used (online or cash on delivery) 3. If He/she select online payment then select their Category. 4. Enter the payment Details. 5. Press the pay Button.
Alternative Path	In the step, payment details are failed or Account balance is not enough for do the payment system is not provide the go Continue.
Post Condition	Successfully the Payment.

Use Case	Create Account
Actor	Customer, Delivery Staff

Description	User can register in the system by providing information to the form given by user registration window .
Pre-Condition	None
Flow of event	1. Get the home page 2. Click the user registration Button. 3. Get the registration Window. 4. Enter the personal information for registration. 5. Enter the user name and password 6. Verify the user name and password.
Post-condition	Successfully Register the System.

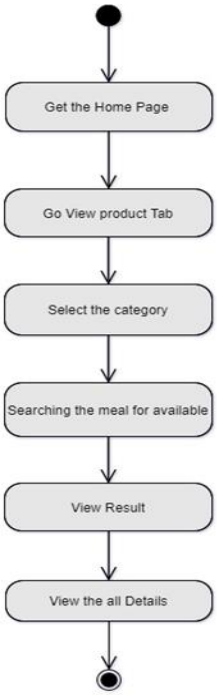
Use Case	Login.
Actor	Admin
Description	This use case define how admin create login (Account) for customers and delivery staff.
Pre-Condition	Admin must have to know about students and lectures details.
Flow of event	1. Get the home page 2. Click the create login tab. 3. Select Person 4. Get registration form. 5. Enter details. 6. Press create button.
Post-condition	Successfully Created a account.

Use Case	Upload and update menu details
Actor	Admin

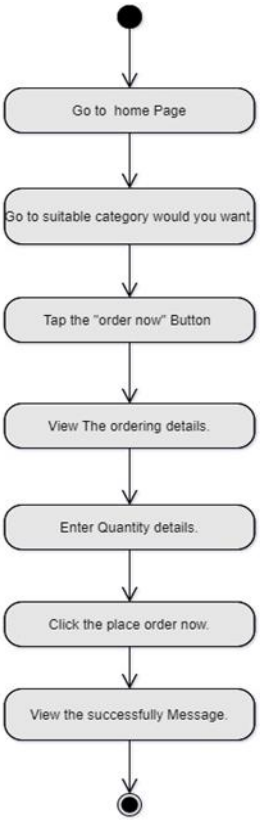
Description	This use case describe how to upload and update menu details to the system.
Pre-Condition	Update correct details for day to day.
Flow of event	1. Get the login window. 2. Go to update details Tab. 3. Press update button. 4. Enter the updated details (price, menu) 5. Press publish Button.
Post-condition	Successfully login to the system.

3.3 Activity diagrams

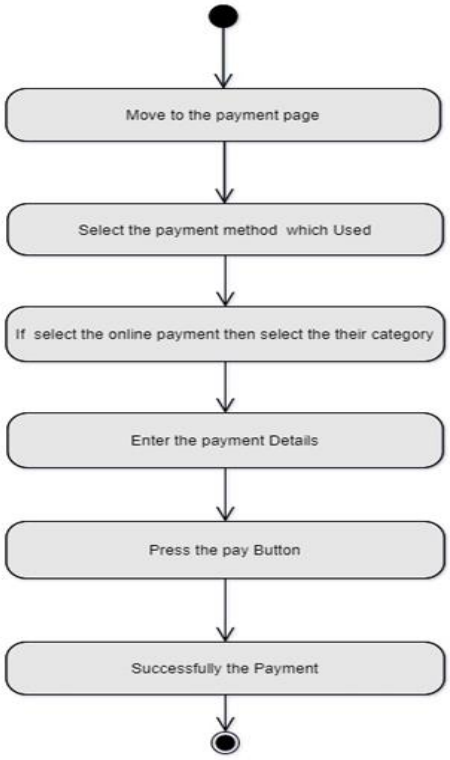
View menu list



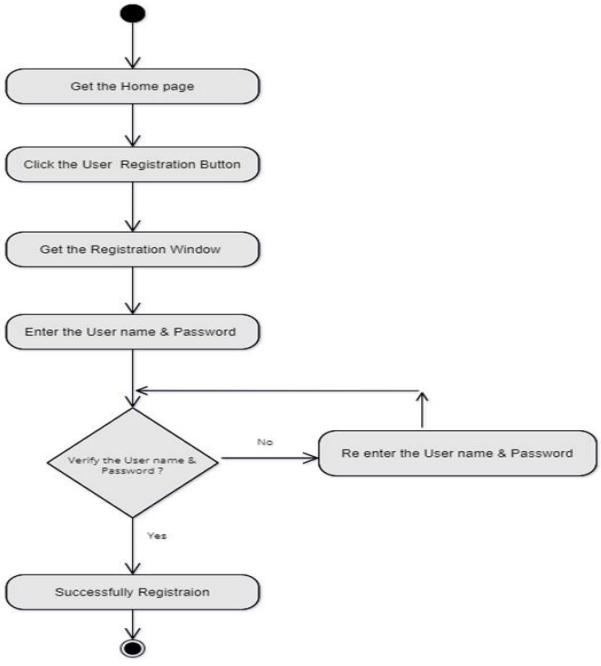
Select menu and Order



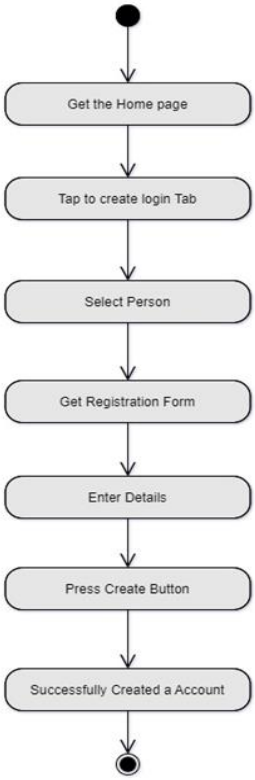
Payments



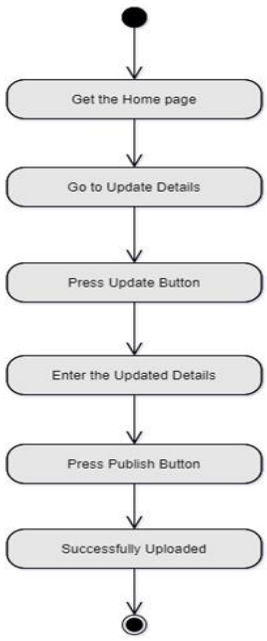
Login



Create Account



Update and Upload Menu details



4. Non-Functional Requirements

4.1 Product Requirement

4.1.1 Usability Requirements

The web interface of the system will be designed to be clearly and User-friendly, with a graphical interface to help users to easily create account, login to the system, choose their foods and order them. Users are expected to be able to use the system productively with minimal or no training.

4.1.2 Efficiency Requirements

4.1.2.1 Performance Requirements

All pages should be loaded within few seconds, assuming that client has good internet connection. Also, the transactions will be validated within few seconds. The system must support 100 simultaneous online users with negligible response latency.

4.1.3 Reliability Requirements

The food ordering system should be available at all times (24 hours a day, 7 days a week) except for monthly maintenance. The system backup all the data including food details and user information daily as well as during the maintenance time.

4.1.4 Portability Requirements

As a web-based application, the system will support the latest version of the majority of browsers such as edge, Firefox, Chrome and Safari, as well as it is optimized for common mobile devices. In addition, the System should be easily migrated to other platform in case of hardware failure in both servers.

4.2 External requirements

4.2.1 Interoperability Requirements

- The system should be highly interoperable with other systems.

4.2.2 Legislative Requirements

4.2.2.1 Privacy Requirements

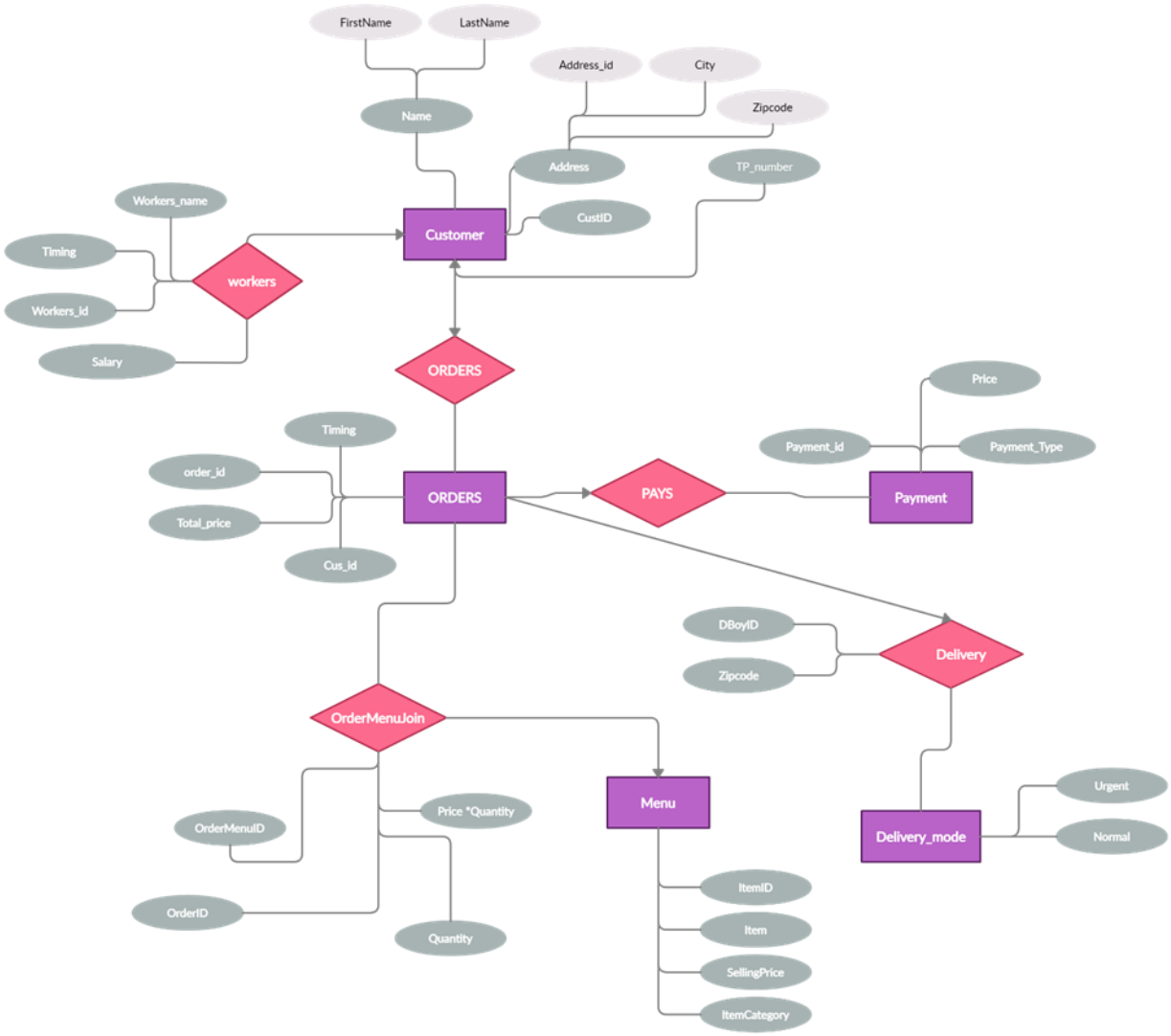
- The system should protect the user's privacy (passwords, email, phone number).

4.2.2.2 Safety Requirements

- Only authorized users can access the system with their username and password.

- The system database may get crashed at any certain time due to system failure, virus, or OS failure. Therefor, It is required to take database backup.

5.Entity Relationship Diagram



6. References

https://online.visual-paradigm.com/drive/#diagramlist:proj=0&dashboard

Nearest Cities.