SRS - HealthyMeal
(Food ordering system)

Introduction

1.1 Purpose

HealthyMeal website aims to minimize customers overhead of visiting the Store and placing the orders, by this customer will save both time and efforts. Admin can maintain customer's database and advance the food delivery system. User/customer after successful sign-in he can order add food to cart and order the food. From this system user can order food which are basically a low calorie food.so the people who are on diet and want to order some healthy and low calories food so they can order.

1.2 Scope

HealthyMeal website overcomes demerits of manual ordering system. This Website aims to minimize customers overhead of visiting the Store and placing the orders, by this customer will save both time and efforts. Admin can maintain customer's database and advance the food delivery system. The system enables to perform the following functions.

- Automation of ordering food
- Confirmation system
- Improved and optimized services

1.3 Glossary

BMF-Book My Flight
LAN-Local Area Network
GUI-Graphical User Interface
OS-Operating System
RAM-Random Access Memory

MB-Mega Bytes GB-Giga Bytes
Mbps-Mega bits per second
HDD-Hard Disk Drive
UML-Unified Modeling language.

1.4 Overview

The remaining section of this document provide a general description including characteristic of the users of this product, the product's hardware, and functional and non-functional requirements of the product

Overall Description

Problem Statement

Developing HealthyMeal food delivery system for client that want to automate his food business operation.

2.1 Functional Requirements

2.1.1 Performance requirements

- **User Satisfaction**: The system is such that it stands up to the user expectations.
- **Response Time:** The response of all operations is good.
- **Error Handling:** Response to user errors and undesired situation has been taken care of to ensure that the system operates without halting.
- **Safety and Robustness**: The system is able to avoid or tackle disastrous action. In other words it should be foul proof.
- **Portable:** The software should not be architecture specific. It should be easily transferable to other platforms if needed.
- **User Friendliness:** The system is easy to learn and understand. A native user can also use the system effectively, without any difficulties.

2.1.2 Design Constraint

There are a number of factors in the client's environment that may restrict the choices of a designer. Such factors include standards that must be followed, resource limits, operating environment, reliability and security requirements and policies that may have an impact on the design of the system.

- **Standard Compliances**: This specifies the requirement for standards the system must follow. The standards may include the report format and accounting properties.
- **Hardware Limitations**: Hardware limitations can include the types of machine to be used, operating system available on the system, languages support and limits on primary and secondary storage.
- **Reliability and Fault Tolerance:** Fault tolerance requirement can be place a constraint on how the system is to be designed. Recovery requirements are often on integral part here, detailing what the system should do if some failure occurs to ensure certain properties. Reliability requirements are very important for critical application.
- **Security:** Security requirements are particularly significant in defence system and database system. They place restrictions on the uses of certain commands, control access to data, provide different kinds of access requirements for different people, require the use of passwords and cryptography techniques and maintain a log of activities in the system.

2.1.3 Hardware Requirements

For the hardware requirements like memory restrictions, cache size, the processor, RAM size etc... those are required for the software to run.

MINIMUM Hardware Requirements

Processor Pentium IV
Hard Disk Drive 100 GB
RAM 1 Gb

PREFERED HARDWARE REQUIREMENTS

Processor Core i3
Hard Disk Drive 500
GB RAM 4 GB

2.1.4 Software Requirements

Any window based operating system with DOS support are primary requirements for software development. Windows 7 and up are required. The system must be connected vie LAN and connection to internet is mandatory.

2.1.5 Other Requirement

- Security
- Portability
- Correctness
- Efficiency
- Flexibility
- Testability
- Reusability

2.2Non-Functional Requirement

2.2.1 Security

The system is must automatically log out all customers after a period of inactivity. The system should not leave any cookies on the customer's computer containing the user's password. The system's back-end servers shall only be accessible to authenticated management.

2.2.2 Reliability

The reliability of the overall project depends on the reliability of the separate components. The main pillar of reliability of the system is the backup

of the database which is continuosly maintained and updated to reflect the most recent changes. Also the system will be functional under a container. Thus the overall stability of the system depends on the stability of the container and its underlying OS.

2.2.3 Availability

The system should be available at all the times, meaning the user can access it using a web browser, only restricted by the down time of the server on which system runs. A customer friendly system which is in access of people around the worlds should work 24 hours. In case of a hardware failure or database corruption, a replacement page will be shown. Also in case of hardware failure or database corruption backups of the database should be retrieved from the server and saved by the Organizer. Then the service will be restarted. It means 24x7 availability.

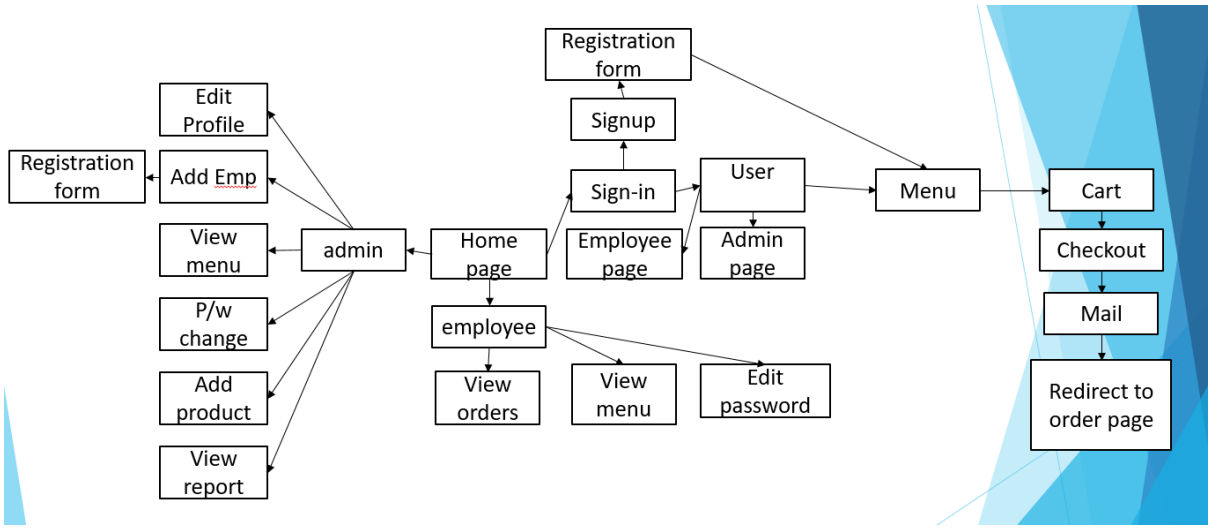
2.2.4 Maintainability

In case of a failure, a re-initialization of the system will be done. Also the software design is being done with modularity in mind so that maintainability can be done efficiently

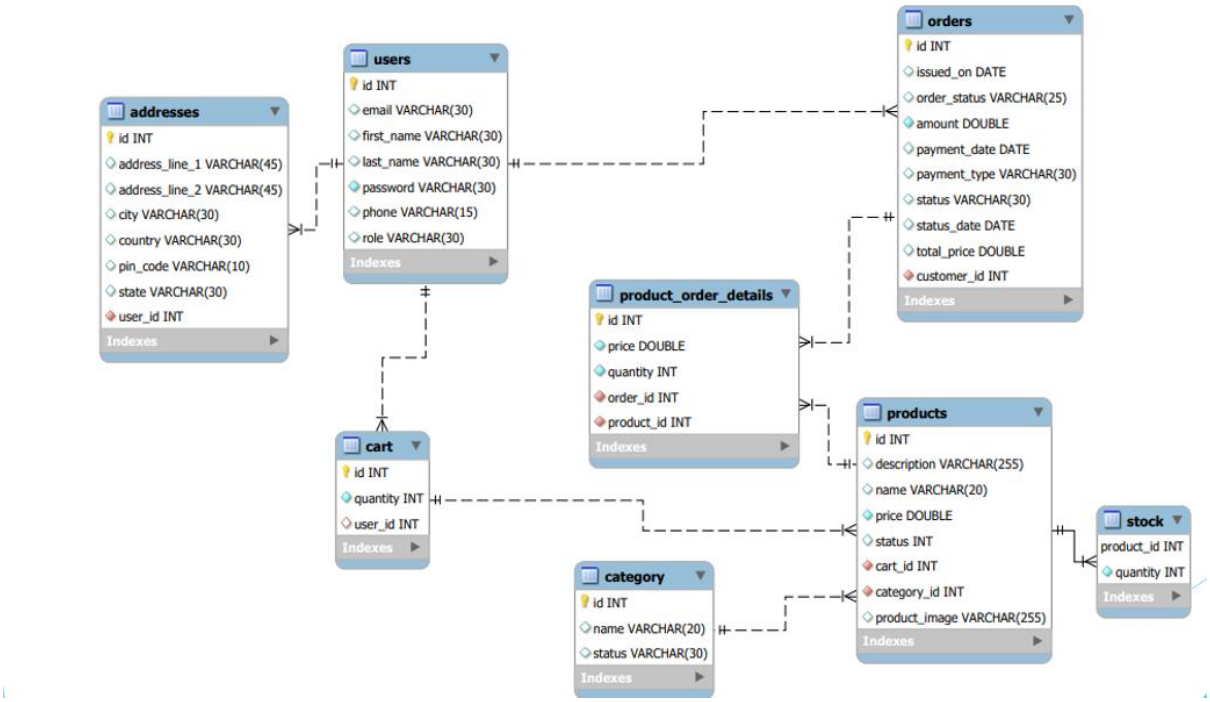
2.2.5 Supportability

The code and supporting modules of the system will be well documented and easy to understand. Online user documentation and Help system requirements will be provided.

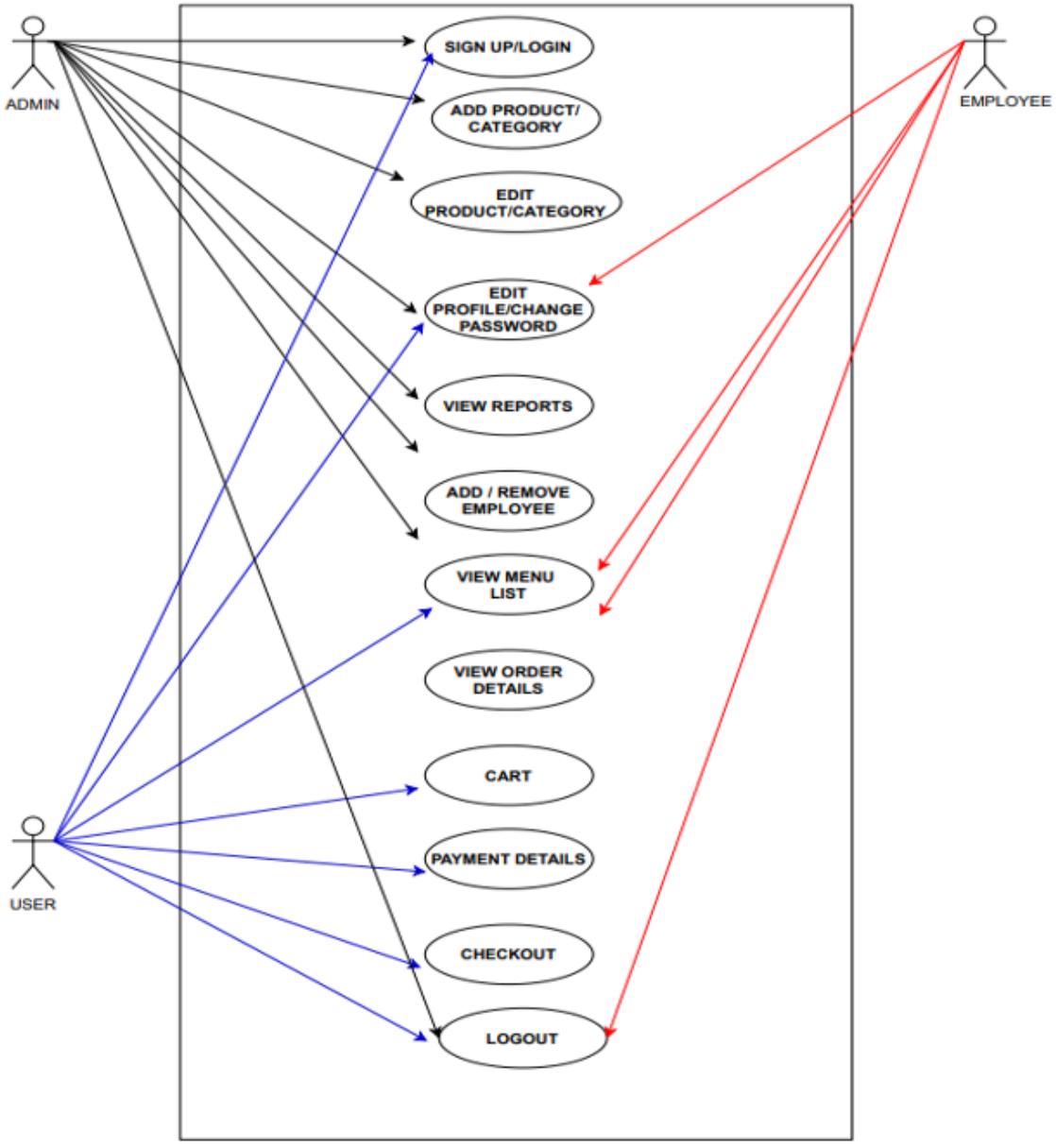
3.1 Data Flow Diagram :



3.2 ER Diagram :



3.3 Use Case Diagram



USE CASE DIAGRAM