Homemade fresh and hygienic food at your doorstep

Final Year Project

Session 2016-2020

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*The candidates confirm that the work submitted is their own and appropriate credit has been given where reference has been made to work of others

Plagiarism Free Certificate

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Project Report

[Homemade fresh and hygienic food]

Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
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APPROVAL

PROJECT SUPERVISOR

Comments: _____

_____

Name:_____

Date:_____ Signature:_____

PROJECT MANAGER

Comments: _____

_____

Date:_____ Signature:_____

HEAD OF THE DEPARTMENT

Comments: _____

_____

Date:_____ Signature:_____

Dedication

This work is dedicated to our supervisor (Sir Asadullah Tariq), family, teachers and friends who always supported us in our educational career.

Acknowledgements

We are really thankful to Mr Asadullah Tariq who has given us the golden opportunity to do this wonderful project under his supervision. During the documentation of Homemade fresh and hygienic food we have done a lot of research and have learnt many concepts regarding FYP. We would like to express our great appreciation to All Teachers, Family and Friends

Executive Summary

In this project we are going to make a website about delivering the healthy, hygienic and fresh home cooked food. Home made fresh and hygienic food is a unique and expansive food delivery service. There are many restaurants who claims to give healthy hygienic food but they are very expensive. So, they are out of the budget of normal people or student who came to big cities for study or job. These people can't manage the expensive food from such restaurants. We propose a venture that involves only delivering food made and provided by others. Our business aims to fill that portion of the market that has so far been neglected. And the small restaurants deliver unhealthy food which causes them health problem. So, we are looking to give solution to that problem. We have planned to cook fresh hygienic food with low price as compared to the big restaurants but our quality of food is same as the big restaurants. We will provide the best food for everyone. We would like to expand the service to delivering items from door by door. Through our website customer will deliver the food to your door step. Most of the companies deliver the food which is not healthy, but we will make sure the food we deliver is fresh and healthy. There are already some people who working on such a thing but most of the people are not happy by their services due to late and unhealthy food.

While food delivery is not an innovative idea in itself, our plan addresses delivery in a new way. There is no direct competition for a business of this sort because our services include such a wide range of delivery options. We would only have substitute competition in the form of restaurants that already deliver. Not only will we corner a segment of this market, but we are proposing to launch our business at both a time and place where it has high potential.

Placing an order with homemade fresh and hygienic website could not be more convenient. Customers visit our website and choose from a variety of recent home cooked food. We will offer links to online menus for the establishments we will travel to. The customer will place their order through us, and will receive the total cost which includes the price of food as well as our own delivery charge. The customer then has the option to pay online with a credit card or choose the option to pay with cash, which we will collect at the time of delivery. Our concept for the website is in development, but we expect to receive a high volume of our orders via the internet as opposed to our delivery phone number.

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Chapter 1

Introduction

Chapter 1: Introduction

FnH is a website about delivering the healthy, hygienic and fresh home cooked food. FnH is a unique food delivery service.

The purpose of FnH is to solve the many hazards and problems as possible. Main purpose is to provide the platform through which people can order desi food cooked in our home kitchens. FnH provides the best home cooked food. Specially for hostile Student or people who come to big cities for job or for studying. We will make sure that the food we provide going to be fresh and cooked in a home kitchen. Platform is for both seller (chef) and buyers (customers).

1.1. Background

It has become a tradition to make use of e-commerce websites in companies which has overcome the boundaries related to market gap and developing era. Ecommerce has resolved the issues like time consuming issue and space issue. It allows them to globalize their operations and offer a more personalized service to the customers. Many entrepreneurs are taking advantages from e-commerce websites and have become eligible in establishing new business models and making new startups. E-commerce has greatly evolved for forty years of existence and is still evolving continuously. Such as ecommerce websites there are many websites related to food providing at web shop that are becoming helping hands for humans and FnH is one of them.

1.2. Motivations and Challenges

Our motivation for making this website comes from different source of online food delivery websites which are growing worldwide day by day so as you know food panda Mum's home made kitchen and many more online food portals are work in similar way people now a days more interested to order food instead of going to that place. Challenges are following

- Main challenge is that to find people/chef that make good food
- Ensuring that the food is fresh or hygienic
- Marketing the product
- An Efficient delivery system

1.3. Goals and Objectives

Our priority is to provide excellent food services to the all of our costumer and the surrounding community by establishing a successful social enterprise.

Our Goals & Objectives include:

- Offering wholesome, fairly priced, ethnically food options
- Creating an attractive menu
- Providing excellent customer services that enhances the report with costumers through responsiveness to needs and requests
- Establishing high quality jobs for target food service employees, including good wages and benefits, career advancement opportunities, access to training and capacity building, participation in decision-making and many more
- Deliver food on time
- Provide fresh and hygienic food
- Get updates with user registrations
- Give feedback

1.4. Literature Review/Existing Solutions

Mumm is an online platform connecting talented homebased cooks with hungry professionals to give them access to wholesome fresh homemade food, from the home chef kitchen You place your order You choose your order type and area to see all the kitchens that operate in that area and their menus and place your order Home Chefisanothercompetitorwhichisworkingonlyin Karachi in fixed area facilitating with home as well as restaurants food. Dastarkhawan is another platform working as a medium between customers they provide the food picture and restaurants phone number, consumer make contact at that number to order food. They are providing platform for customers to order food from there desirable restaurants.

https://www.getmumm.com/

[1] Kimes, S. E. (2011). The current state of online food ordering in the US restaurant

industry. *Cornell Hospitality Report*, *11*(17), 6-18.

Murphy, Andrew. "The emergence of online food retailing: a stakeholder perspective." *Tijdschriftvoor economischeensocialegeografie*93,no.1(2002):47-

1.5. Gap Analysis

Homemade fresh and hygienic food plans to use gap analysis to priorities the objectives of its team building activities, as well as plans to survey employees on the perceived effectiveness of programs, and alter them from there. As a result, Homemade fresh and hygienic food finds its employees remain committed to the overall business vision

- **Current State:**

As we are starting a new startup the initial state of Homemade food web will need to acquire changes according to customer needs.

- **Future State:**

All issues which users face in initial step will be highly appreciated and will bring under consideration and steps should be taken out for their improvement.

- **Improvement Steps:**

We will make some changes after testing the software. Change only require when it needed. Fixing the bugs and improve the project as per requirement

1.6. Proposed Solution

We proposed a solution to make an online homemade food ordering website In this website all user can order food all the user can track their orders In this website all the users will receive update menu of new added items of food In the website user can register himself as a user or as well as chef and also the user give feedback about their order In this website user can select categories of their order like order for single or order for family . user can also select payment method to pay his bill through this website the user can get easily quality food at his/her door step. We will provide those people with the home cooked food without any chemical additives. So, it will be better in sense of health and money because it's cheaper than others. We will give the food you want us

to cook for you so don't need to eat repeated food in the mess. Our food will be 100% purely cooked with healthy ingredients. The customers have a visual confirmation that the order was placed correctly. Customers can read out food ingredients before ordering. Our food will be served in sealed boxing so it will stay fresh until you open the box.

1.7. Project Plan

- **Our Quality plane will be measured by the following parameters:**
    - Ease of use of the system
    - User satisfaction regarding the service
    - Website Response Time
    - Provide quality food
    - Security of personal Data

All the details of the project are mentioned via work breakdown structure although initial phase of the project is starts from the project manager who manage the whole project until deployment. In the beginning phase, we take feedbacks of the main idea from various hostel and students.

1.7.1. Work Breakdown Structure

1. Initiation

1.1 training

1.2 pre project plan

1.3 review project byteam

2. Taking requirement

2.1 Gather requirement

2.2 Requirement analysis

2.3 Verification

2.4 Validation

3. Analysis and design documentation

3.1 Analysis document

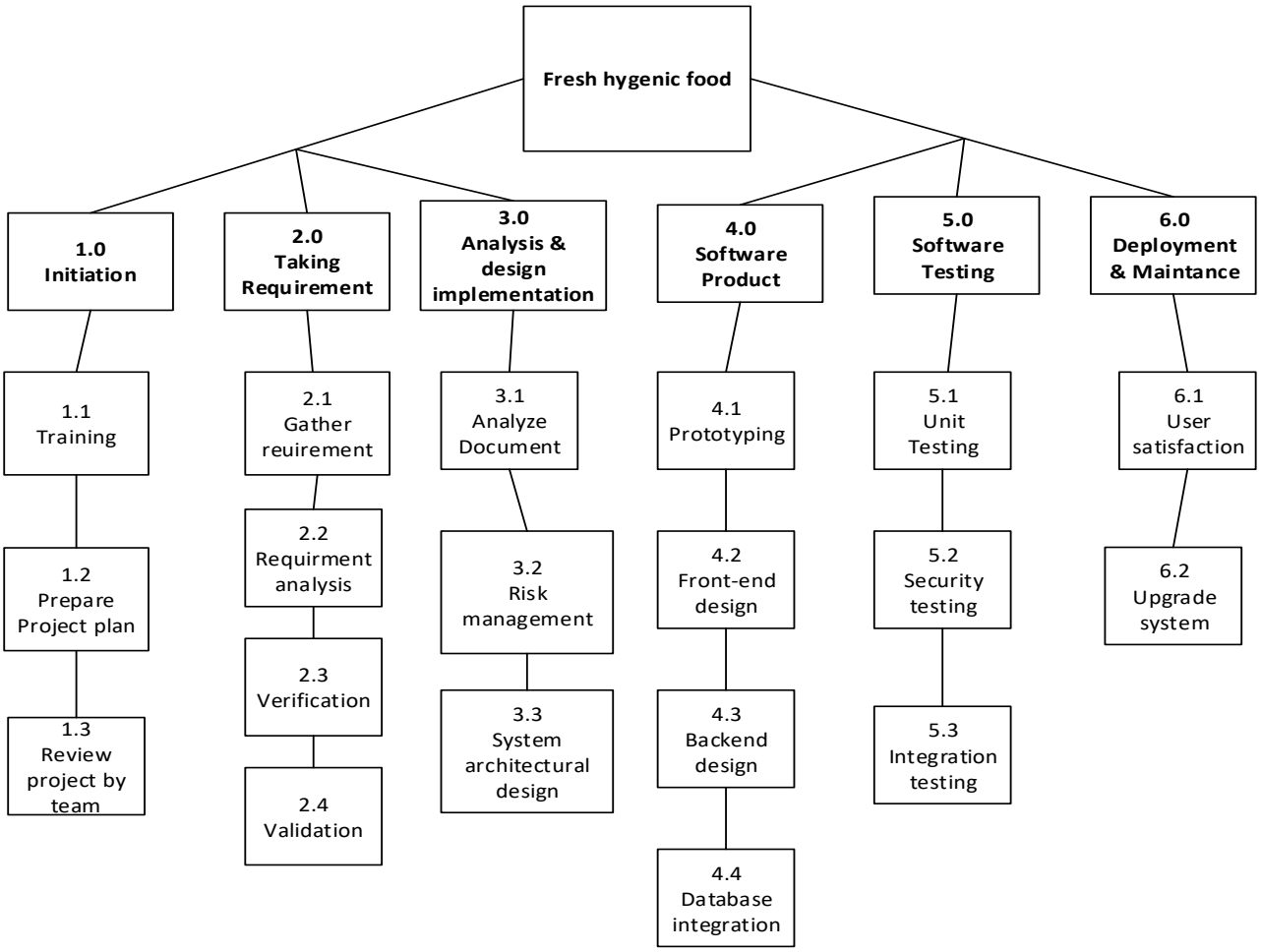

Figure 1: Work Breakdown Structure

1.7.2. Roles & Responsibility Matrix

WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
	Project Manager	Management	the describing of the problem and giving the main idea about the software	Week 1-13	Asad Ali Zahid Ghulam Abbas Nabeel Ahmad
	Requirement Engineer	Requirements and data gathering	gathering the information and the right attributes about the software	Week 2-3	Asad Ali Zahid Ghulam Abbas Nabeel Ahmad
	Analyzer	Analyzing	to filter the problem and errors from the information which is gathered by requirement engineer	Week 3-4	Asad Ali Zahid Ghulam Abbas Nabeel Ahmad
	Designer	Designing	to shape up the information into the models that can use in making of software	Week 4-7	Ghulam Abbas
	Developer	Software Developing	to develop the physical model of software	Week 7-11	Asad Ali Zahid
	Tester	Testing the software	to test the physical software using different techniques	Week 11-13	Nabeel Ahmad

Table 1:Roles&Responsibilities matrix

1.7.3. Gantt Chart

ID	Task Name	Start	Finish	Duration
1	Initiation	10/8/2019	11/5/2019	4.2w
2	Taking requirement	11/8/2019	11/22/2019	2.2w
3	Documentation	11/25/2019	12/26/2019	4.8w
4	Analysis and design	1/1/2020	2/14/2020	6.6w
5	User interface design	2/17/2020	3/4/2020	2.6w
6	Backend coding	3/5/2020	3/17/2020	1.8w
7	Database	3/18/2020	3/27/2020	1.6w
8	Testing	3/30/2020	4/8/2020	1.6w
9	Deployment	4/9/2020	4/21/2020	1.8w
10	Maintenance	4/22/2020	4/29/2020	1.2w

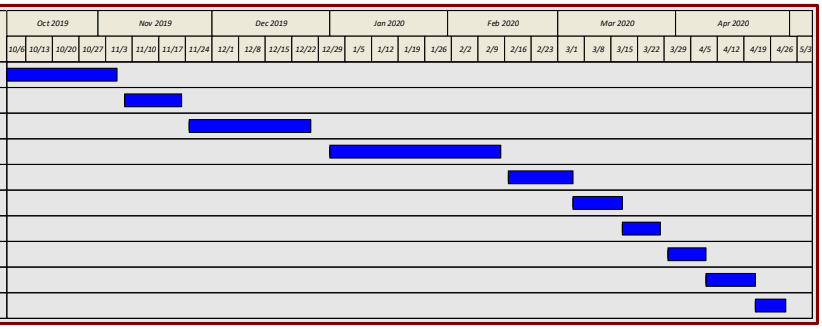

Figure 2: Gantt Chart

1.7.4. Proposed Methodology

We use agile method for developing our website

AGILE Methodology:

The design phase uses the outcomes of the discovery to create compositions, usually of a complete page design with often limited rounds of revisions. This is followed by the development phase, which takes the completed page-design comps and builds them to spec, making sure that every pixel is in the proper place in order to execute the masterful vision of the designer.

And finally, the deployment phase starts, usually with a beta launch in which quality assurance is carried out on the site for a few weeks. It then launches to the public, sometimes with a beta signifier on the logo as a badge of honor.

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

REASON:

We use this model because this model is more efficient and reliable. In this model requirements would be change day by day. there is customer collaboration involve to implement system in this model. In this model comprehensive document will be required that's why we use this model.

1.8. Report Outline

The title page:

- **Title:** Homemade fresh and hygienic food
- **Author:**
    - ✓ Asad Ali Zahid
    - ✓ Ghulam Abbas
    - ✓ Nabeel Ahmad
- **Course:** Final Year Project

Abstract:

- **Brief description:**

In this report, we have briefly described about the project and Its features. We describe all the functionalities of customers and chefs. All work is shown out with the help of WBS and Gant Chart.

- **Method:** This report is generated using research based techniques.

Table of contents:

- Introduction
    - Background
    - Motivations and challenges
    - Goals and objectives
    - Literature review/existing solutions
    - Gap Analysis
    - Proposed solution
    - Project plan
        - WBS

- Roles and responsibilitymatrix
- Gantt chart

- Report outline

Introduction:

In this chapter, we have briefly discussed about motivation and challenges, goals, objectives, project solution and project plan by making WBS and Gantt Chart.

Objective:

Main goal is we are providing platform for household women who want to work and earn but are restricted. As we are providing platform for both chefs and customers.

- **Equipment**:

  - Internet
  - Laptops

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

2.1.1. Purpose

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope and overview of the SRS. The main aim of this document is to defining the problem statement the food industry is a combination of many diverse businesses and it is responsible for feeding the world population.

- The main proposed of our food system to provide fresh and hygienic food at your door step once the user login to system he/she can search or see all the fresh food or whatever he wants to order food the user can easily order food and also track their order
- The purpose of this document is to present a detailed description of the Web Publishing System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

2.1.2. Document Conventions

This project is based on website for online fresh and hygienic food ordering this is an online platform for all type of customer who want fresh food our website making style will be understandable font style and color contrast will good for user.

Main Section:

1. Font: Calibri (Body)
2. Face: Bold
3. Size: 20

Other Text:

1. Font: Calibri (Body)
2. Face: Normal
3. Size: 12

Sub Section:

1. Font: Calibri (Body)
2. Face: Bold
3. Size: 16

2.1.3. Intended Audience and Reading Suggestions

Homemade fresh and hygienic project documentation is carried out under the supervision of Ms. Abqa Javed. Developers are Asad, Abbas and Nabeel.

Intended audience will be:

- Customers
- Chefs

Customers will see the provided menu by chefs, select the desired food and then submit for order.

Chefs will collect orders from carts which are selected by customers.

2.1.4. Product Scope

The food industry is a combination of many diverse businesses and it is responsible for feeding the world population. This group excludes hunter-gatherers and those who do subsistence farming. Parts of the food industry include agriculture, online food service, and much more. Since the growth of the food industry is assured, anxious promoters can invest their money in the food industry will reap benefits.

Seller customer (Chef):

- We will keep seller information in database.
- User dashboard is provided to the chef.
- Price will be managed and often discounts will be offer by money which is earned by business.
- Restricted about the adds. Adds related to food can be patched.
- Update and delete features are provided.

Purchaser customer:

- We will keep purchaser customer information in database.
- Purchaser address and phone no will keep encrypted and data is not shown to other customers.
- Food will deliver to exact location.
- Dashboard is provided to customer.

2.1.5. References

https://www.getmumm.com/

https://orders2.me/5-things-your-online-ordering-system-needs/

https://scholarworks.gvsu.edu/cistechlib/219/

https://www.researchgate.net/figure/Food-Ordering-System-Architecture_fig4_299185219

https://edoc.pub/market-research-on-online-food-insdustry-pdf-free.html

http://www.lunch.pk/

https://homechef.pk/

final report.docx

Template-06 - Project (Part-1) Defence Presentation.pptx

2.2. Requirement Gathering

There are many requirement gathering techniques which are following.

- Brainstorming
- Questionnaires
- Interviews
- Focus Groups and workshop
- Observation
- Review documentation

2.2.1. Technique selected

- Brainstorming
- Questionnaires
- Interviews
- Focus Groups and workshop
- Observation
- Review documentation

2.2.2. User Classes and Characteristics

User: user is login on website for our service user can order a single way or in a family food on our website user can track location and give own location to us for food service user can report to admin for any kind of bad food quality or any type of problem, all customers user can order to give suggestion to chef about their order

Admin: admin can add chef admin can send order to chef admin receive feedback from user admin can update status of order admin can add new categories of food

Chef: chef can view placed order by admin Chef can send SMS or notification to customer for query regarding normal or spicy and also can view it.

2.2.3. Operating Environment

The website will be hosted by professionals and accessible from any web browser on a majority of devices.

- The operating environment of the food ordering system is based on

  LANGUAGE: html CSS java script bootstrap

  Database: MySQL

  Operating system: Windows 7/8/10

2.2.4. Design and Implementation Constraints

- Valid authentications will be used.
- Follow all the copyright and cyber laws.
- Design should be completed in the defined time.
- IEEE standards should be followed.
- Ram should be greater than 1gb and processor will be at least dual core or above.
- Default language will be English.

2.2.5. User Documentation

- User manual will be given with software.
- Testing report will also be attached with user manual.
- We will provide web page named “Help”.
- Contact us page is provided for complaints and suggestions.

2.2.6. Assumptions and Dependencies

- Homemade fresh food website is totally free. It is available to consumers and is accessible through internet.
- Web browser must support the website (i.e. Chrome, Internet explorer)
- To assume that every user has internet connection.
- To assume that Chef should stay online(available) for collecting orders

2.2.7. User Interfaces

Our website contains a standard GUI It contains good color contrast and easy process for understanding of user FnH will give access to users when users are connected to internet. Users functionalities:

- Users must have to sign up account.
- Users must have to login for getting access to website.

2.2.8. Software Interfaces

Our software contains the following:

- **Operating System**: Windows 7, 8, 10
- **Database** MySQL
- **Development tools:**
    - PHP
    - HTML 5/CSS

- Bootstrap
- Java script
- jQuery

2.2.9. Communications Interfaces

- **Electronic forms**: Web form in PHP.
- **Network server communication protocols:**

  HTTPS, FTP and TCP/IP for communication over the internet.
- **Communication standards:** HTTPS, TCP/IP and FTP communication standards should be implemented.
- **Communication security**: HTTPS communication security will be based on Transport Layer Security.
- **Encryption issues:** HTTPS communication security based on Transport Layer Security (TLS) may not achieve over public internet networks.

2.3. Functional Requirement

The system should have the following features:

The system should have a user registration process in order to get login into the system. Login will be of three Types. Customer and Admin and chef.

Admin Role

- Admin can register its chefs i.e. chef
- Admin should be able to view the order of customer.
- Admin can check status of all orders placed
- Admin should be able to add/update orders.
- Admin should be able to add/update new categories of food like BBQ, sweet dishes,

Chinese, Italian, Pakistani food

- Admin should be able to add/ update details of food costs for each category.
- Admin should be able to add/update staff
- Admin can generate report of all orders

Customer Role

- Customer can register himself
- Customer can add basic information like name, address, e -mail, city and contact no
- Customer can place order by selecting food or choose food detail
- Customer can place order by weekly or daily
- Customer can update/delete order with in time limits specified by system. Customer can order food by contact us
- Customer can provide feedback.

Chef Role

- Chef can view orders placed by customer at admin site.
- Chef can update customer order status.
- Chef can add new items of food on web that will be change day to day

Reports:

- List of all customers (Date wise, time wise)
- List of all orders (Date wise, complete orders, cancel orders) Option should be available to print Receipt of the orders.
- Report of income between two dates Report of expenses between two dates

2.4. Other Nonfunctional Requirements

- Performance
- Availability
- Efficient
- Secure
- Easy to use
- Flexibility
- Reliable

2.4.1. Performance Requirements

The system must be interactive and the delay involved must be less So in every action response of the system there are no immediate delays. In case of opening windows forms of popping error messages and saving the settings or sessions there is delay much below 2 seconds, also when connecting to server the delay is based editing on the distance of the 2 system and the configuration between them.

2.4.2. Safety Requirements

Information transmission should be safely transmitted to server without any changes in information.

2.4.3. Security Requirements

- Data must be kept confidential by encrypting the information of chefs and customers in database.
- Wireless communication throughout the system will be encrypted using transport layer.
- Customers and chef's information like phone numbers, emails and their personal information will keep secure by encrypting data.
- Password length will be pre-defined and it is restricted to use special characters while setting passwords.
- Chef cannot be logged in into two systems at a time through one account

2.4.4. Software Quality Attributes

For this project consider that qualities: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability.

2.4.5. Business Rules

Business rule is that how we apply validation and security to our website. How we save our website from intruders. Keep secure by using .com.
Validation functionalities:

- Client-side validation

  Client-side validation includes that the data of any client (customer, chef) is kept confidential by encrypting the data.
- Back-end validation

  Backend validations that all data saved in database id kept safe from hackers and intruders by using encryption.

2.5. Other Requirements

Legal requirements:

- Chef should follow the standards provided by food authority.
- Chefs are strictly restricted to use alcoholic material in making of food.
- Halal foods must be provided to customers as its essential thing for Muslims.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

This chapter will describe about the use case of the system which will further illustrate the functional requirements of the systems and how functional requirements will interact will the user or actor.

Use case analysis is a technique used to identify the requirements of a system and the information used to both define processes and classes (which are a collection of actors and processes which will be used both in the use case diagram and the overall system.

3.1. Use Case Model

Use cases add value because they help explain how the system should behave and, in the process, they also help brainstorm what could go wrong. They provide a list of goals and this list can be used to establish the cost and complexity of the system. Project teams can then negotiate which functions become requirements.

What Use Cases Include	What Use Cases Do NOT Include
• Who is using the website? • What the user wants to do • The user's goal • The steps the user takes to accomplish a particular task • How the website should respond to an action	• Implementation-specific language • Details about the user interfaces or screens.

Admin Use case:

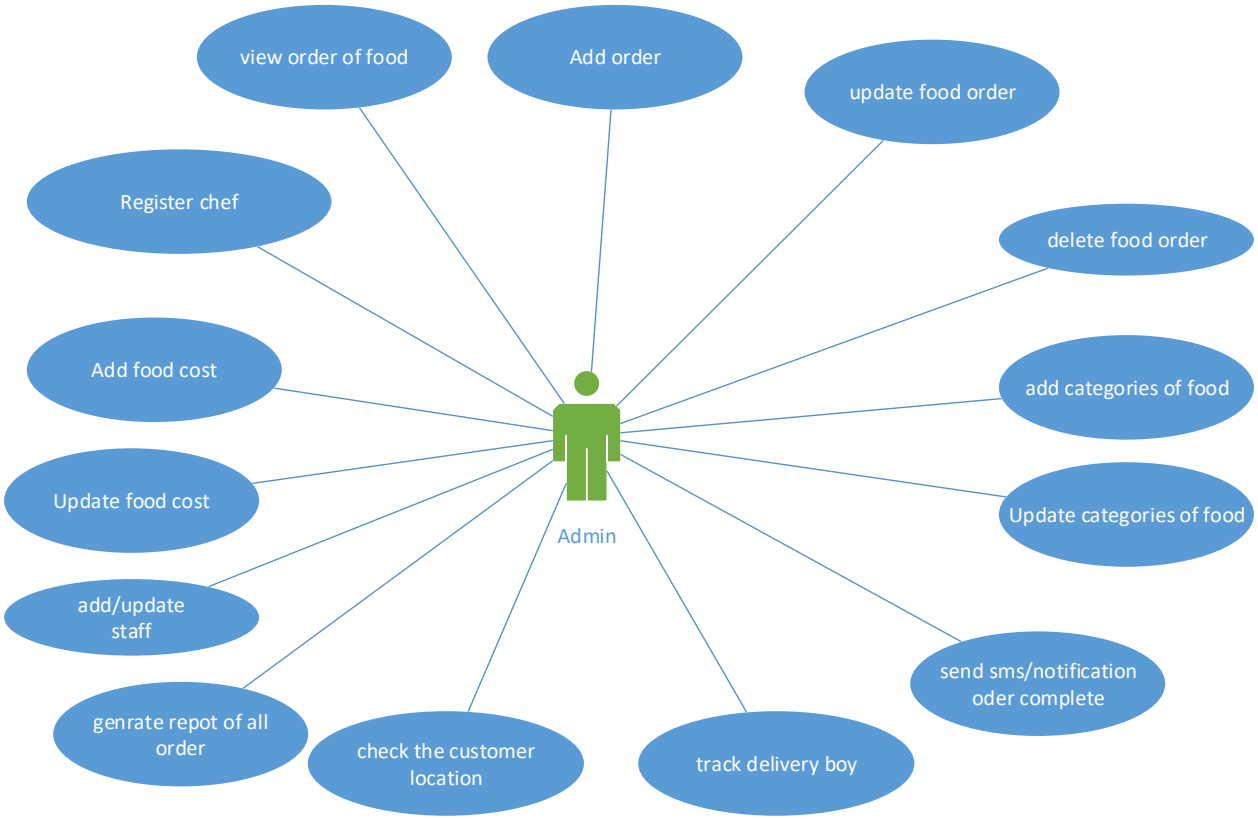

Figure 3: Admin Use Case

Chef use case:

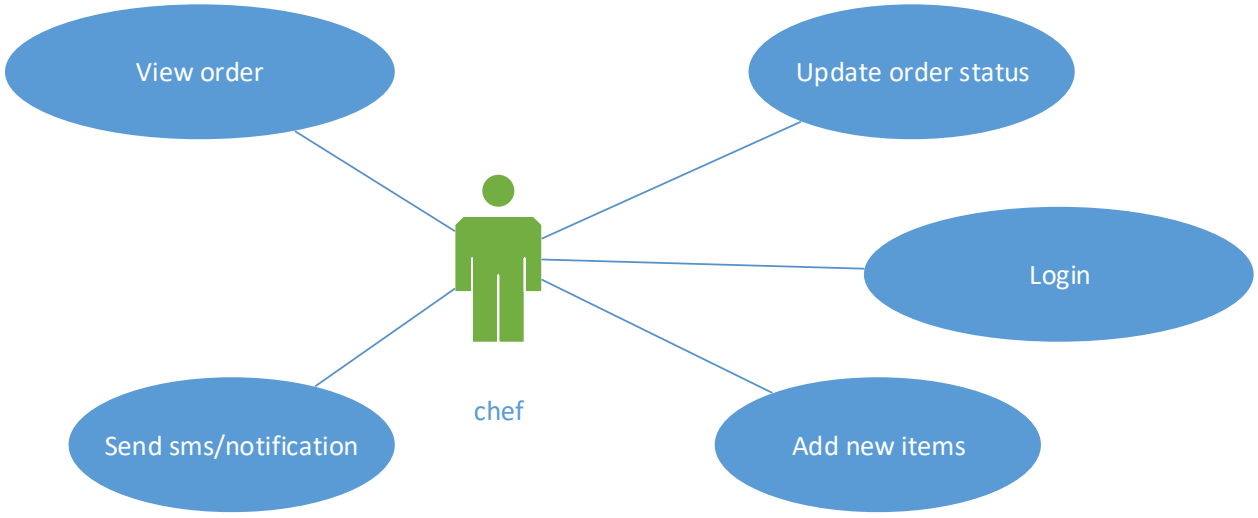

Figure 4: Chef Use Case

User use case:

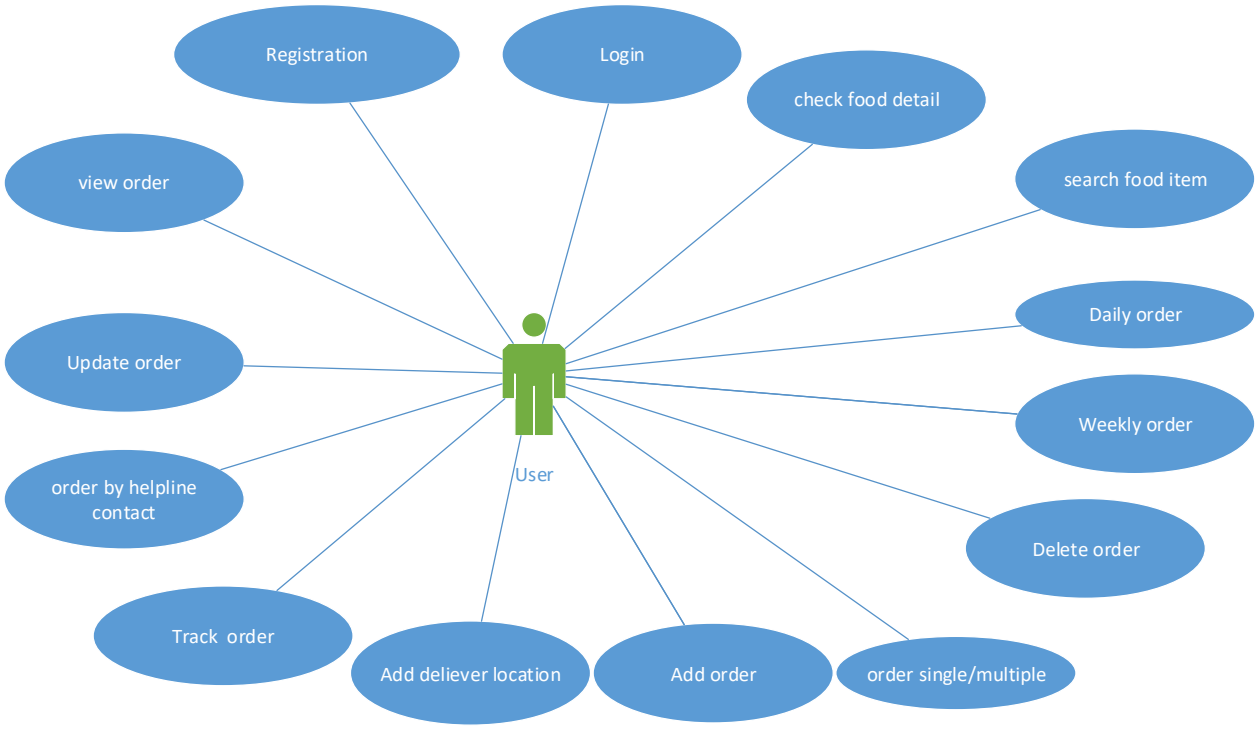

Figure 5: User Use Case

3.2. Fully Dressed Use Cases

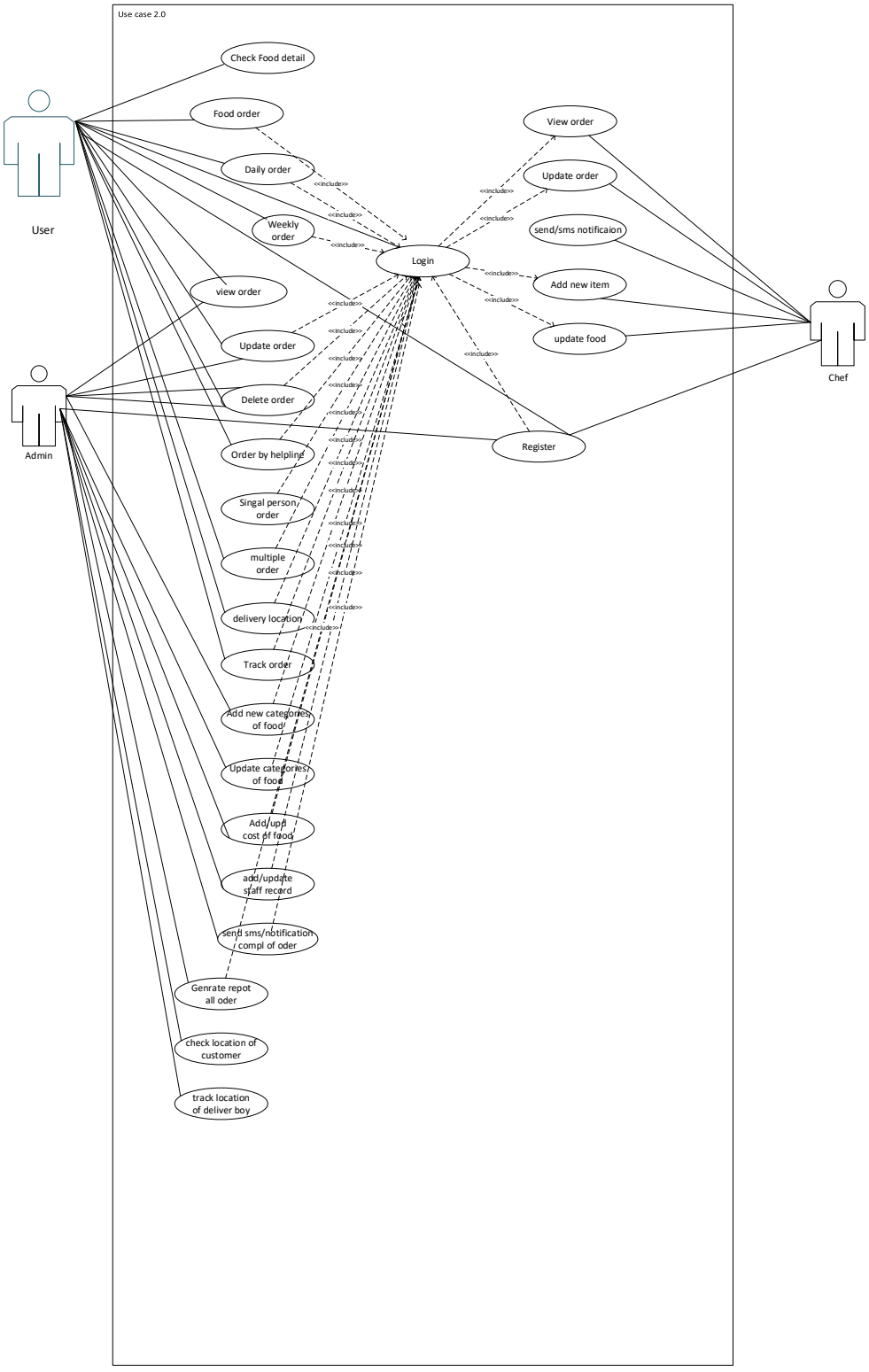

Figure 6: Fully Dressed Use case

3.3. Use Case Specification

Use Case:	Login
Actors:	Admin, Customer, Chef
Type:	Primary and Secondary
Description:	The actor has to sign up before. Then he will enter the given username and password to get access.
Includes:	Sign up.
Extends:	Change password.
Cross Ref:	Sign up.
Use-Cases:	None

Table 2:login use case specification

Use Case:	Sign up
Actors:	Admin, Customer, Chef
Type:	Primary and Secondary
Description:	Sign up is registering yourself to get access. Will give you a username and password tologin.
Includes:	Authentication.
Extends:	None.
Cross Ref:	None.

Table 3 signup use case specification

Use Case:	Select order
Actors:	Customer, chef.
Type:	Primary and Essential
Description:	Itallowscheftopostwhathehascookedandcustomertochoosewhathe wants to eat.
Includes:	Login
Extends:	Choose food.
Cross Ref:	
Use-Cases:	Login is compulsory

Table 4 select order use case specification

4.

Use Case:	Submit Order
Actors:	Customer
Type:	Primary
Description:	We confirm that what we want to eat and we will book it.
Includes:	Provide delivery address.
Extends:	None
Cross Ref:	

Table 5 submit order use case specification

Use Case:	Bill Payment
Actors:	Customer
Type:	Primary
Description:	Bill will be generated after the food is confirmed.
Includes:	None
Extends:	None
Cross Ref:	Submit order
Use-Cases:	

Table 6 Bill payment use case specification

Use Case:	Provide food menu
Actors:	Customer, Chef
Type:	Primary and secondary
Description:	The chef will provide the food menu for the customers.
Includes:	None
Extends:	None
Cross Ref:	

Table 7 food menu use case specification

Use Case:	Collect order
Actors:	Chef
Type:	Secondary
Description:	The chef will collect order from the customers.
Includes:	None
Extends:	None
Cross Ref:	Provide food menu

Table 8 collect order use case specification

Use Case:	Deliver Food
Actors:	Chef
Type:	Secondary
Description:	After collecting the order, the chef will deliver the food to customer.
Includes:	None
Extends:	None
Cross Ref:	Submit order
Use-Cases:	None

Table 9: food deliver use case specification

5.

Use Case:	Manage accounts
Actors:	Admin
Type:	Secondary
Description:	The admin will manage all the accounts of the chef and customers.
Includes:	None
Extends:	None
Cross Ref:	Login
Use-Cases:	None

Table 10 manage accounts use case specification

Use Case:	Control Issues
Actors:	Admin
Type:	Secondary
Description:	The admin will control all the issues regarding to the chef, cooking and customers
Includes:	None
Extends:	None
Cross Ref:	Manage accounts

Table 11: control issue use case specification

Use Case:	Logout
Actors:	Admin, Customer, Chef
Type:	Primary and secondary
Description:	After completing the task, you can log out.
Includes:	None
Extends:	None
Cross Ref:	
Use-Cases:	User must have completed the Log In use case.

Table 12: logout use case specification

Chapter 4

System Design

Chapter 4: System Design

We are designing whole system conceptually,just to clear out how system will look like. We have designed the architecture diagram how software will interact and look like in real world. We design different models like domain model and ERD model which indicates the relationships between all components and classes. Concluding from diagrams how system will work and interact with end users and administration.

4.1. Architecture Diagram

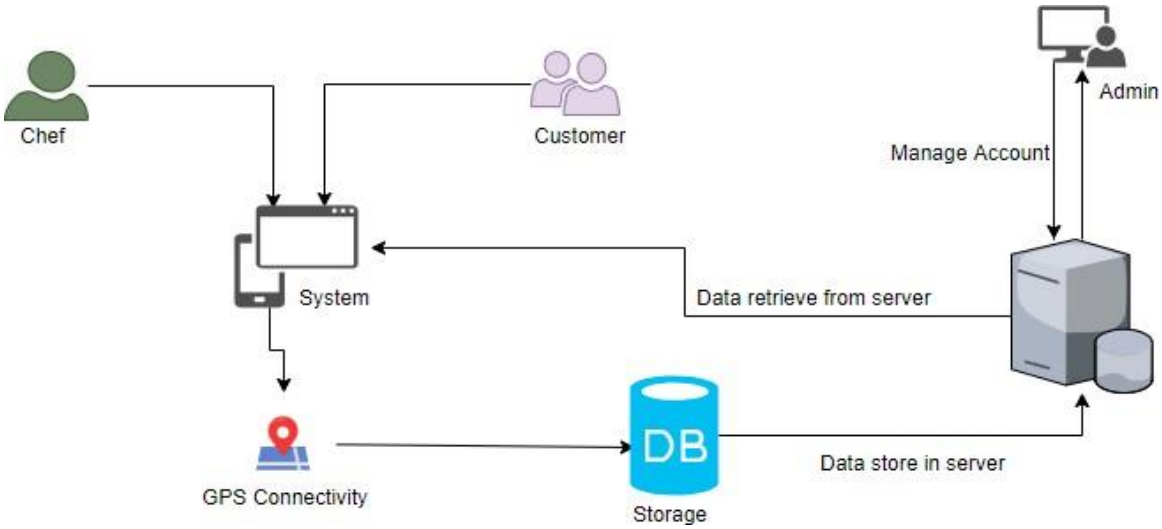

Figure 7: Architecture Diagram

4.2. Domain Model

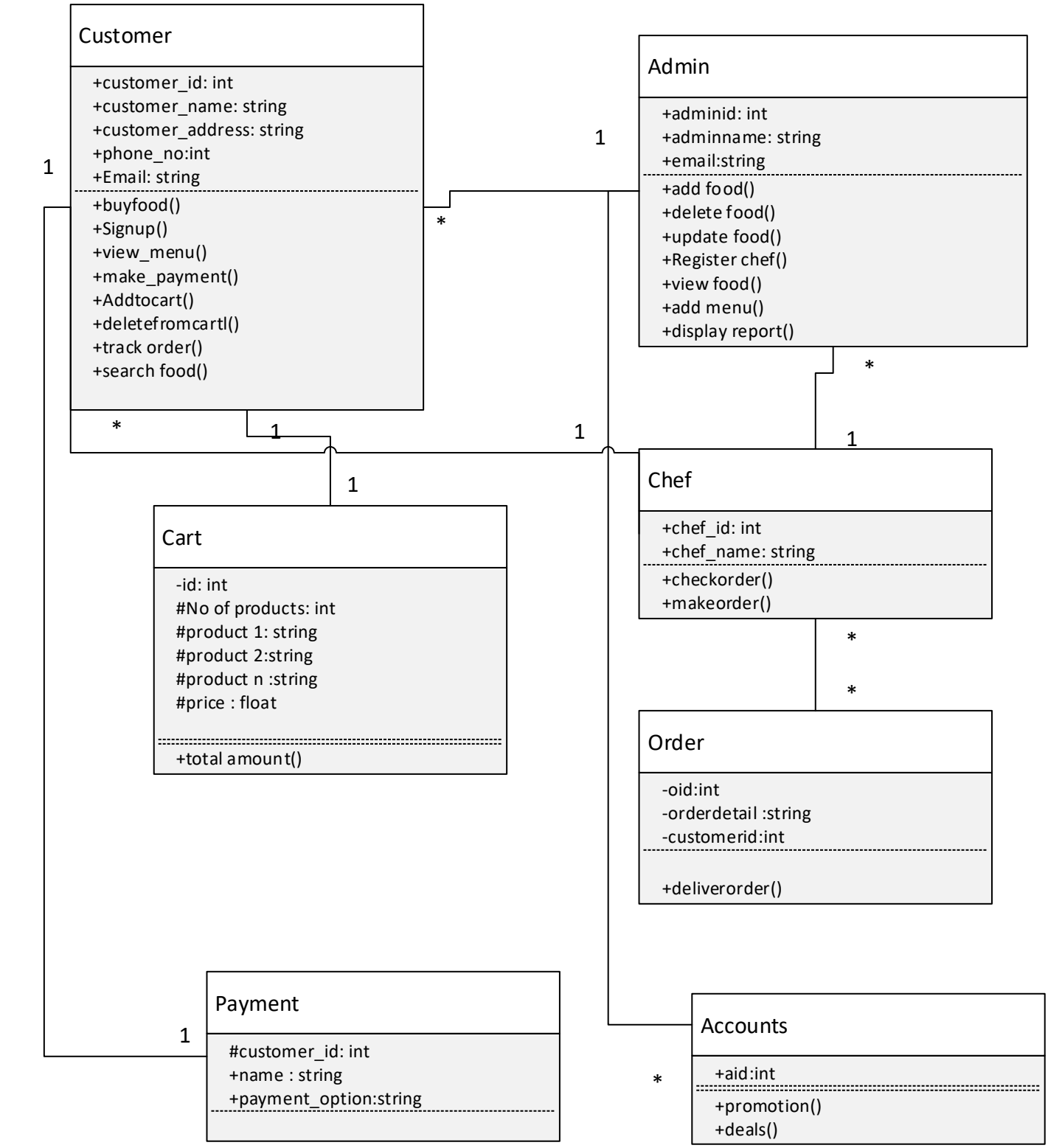

Figure 8: Domain Model

4.3. Entity Relationship Diagram with data dictionary

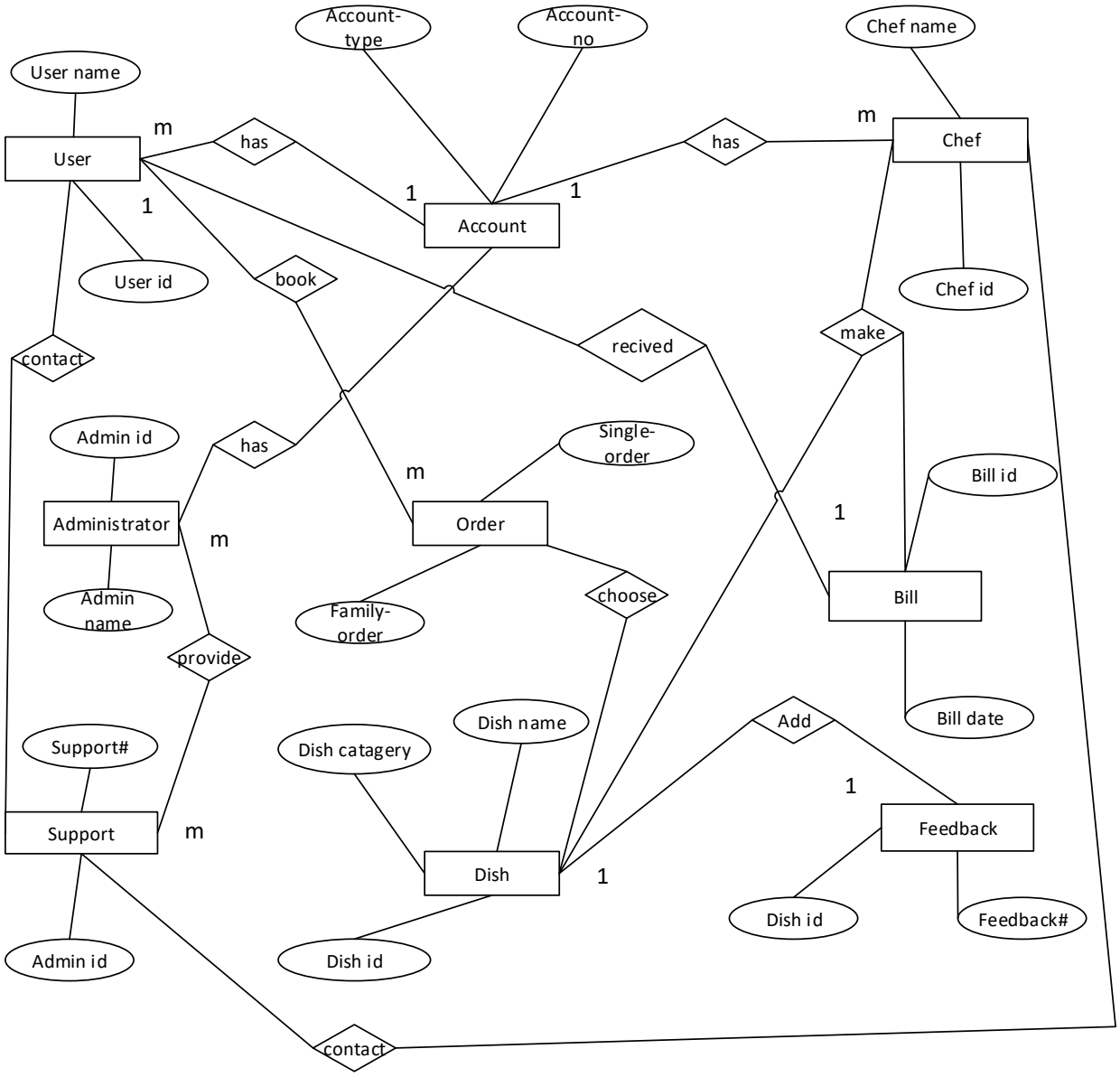

Figure 9: ERD

4.4. Class Diagram

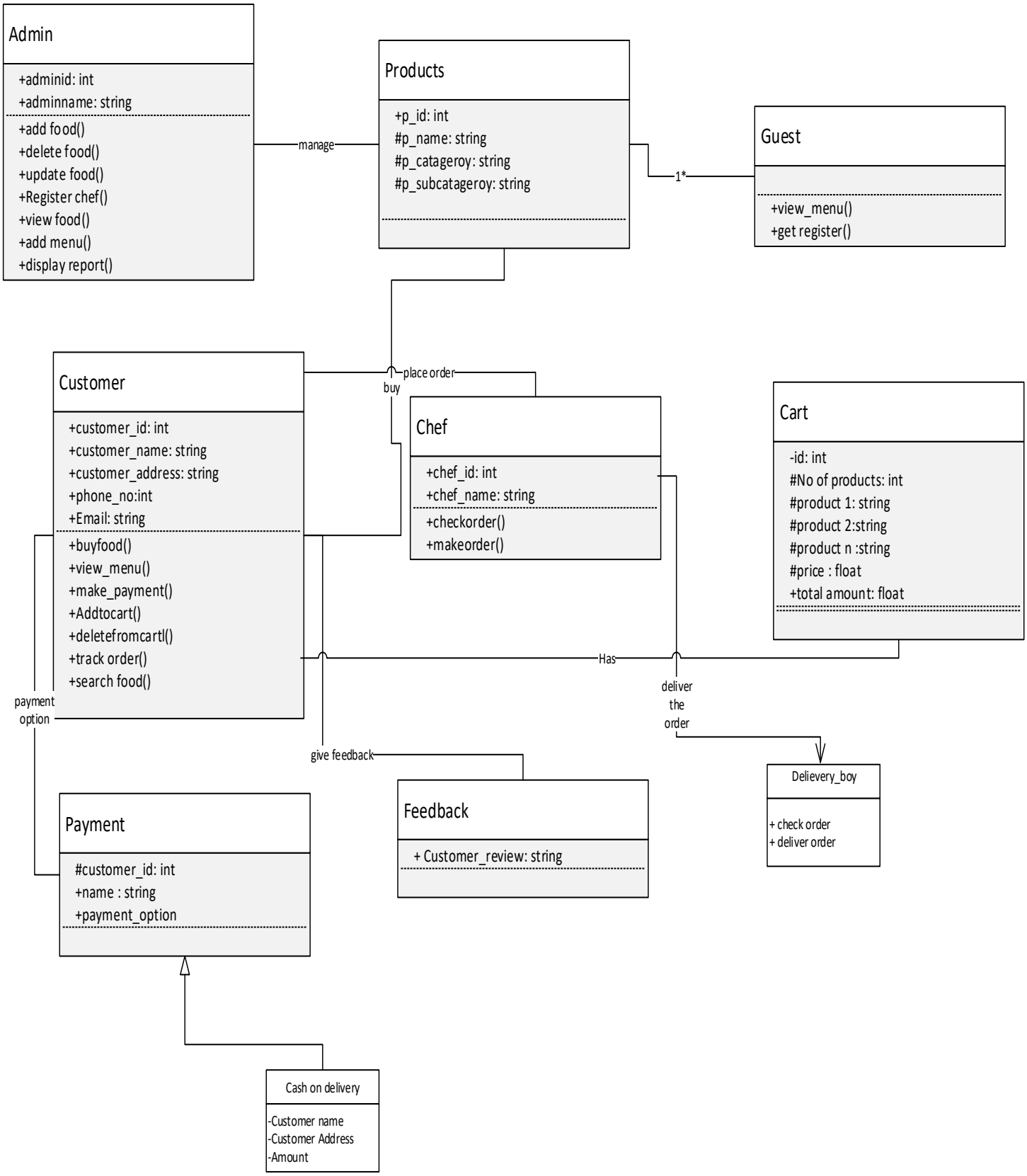

Figure 10: Class Diagram

4.5. Sequence / Collaboration Diagram

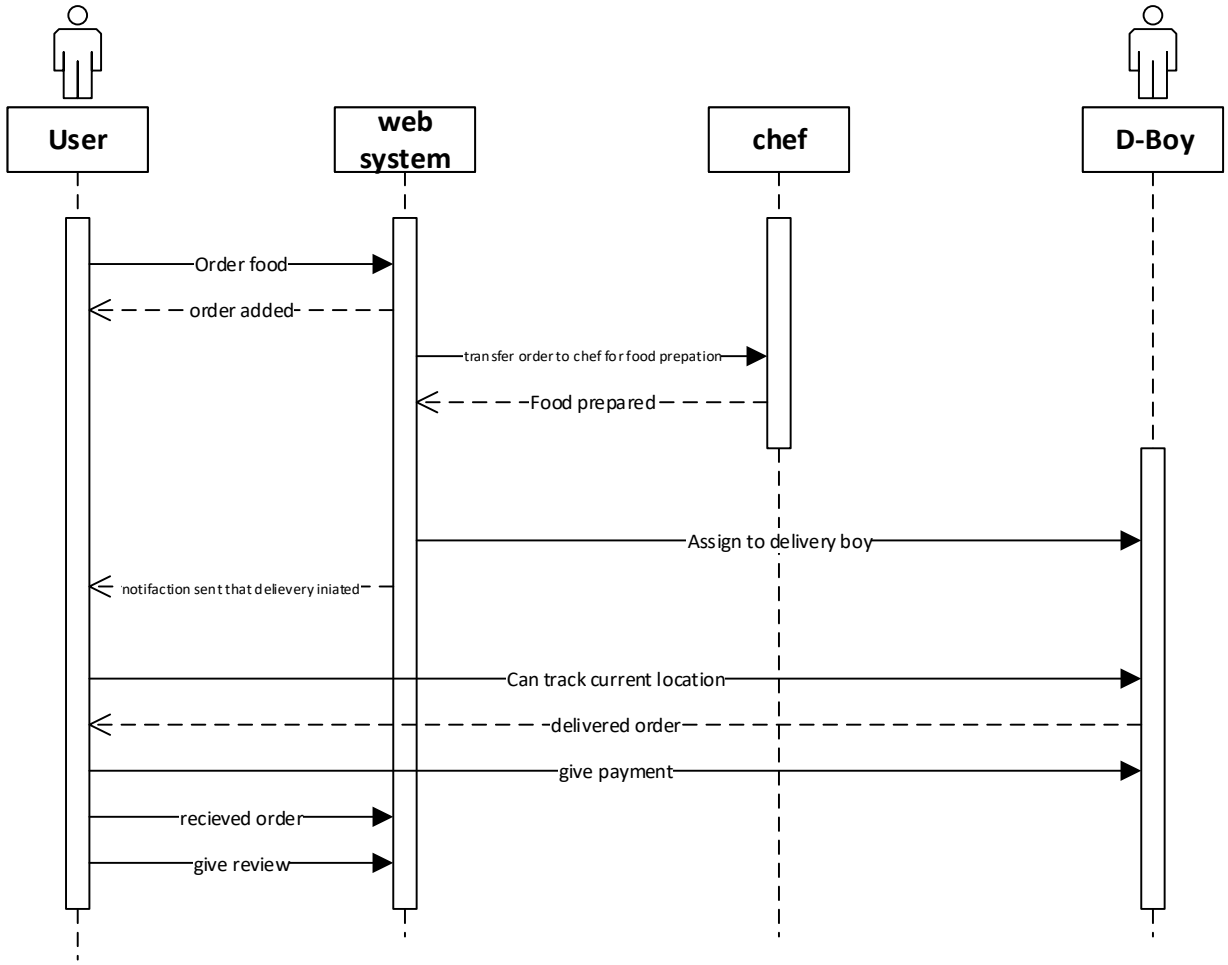

Figure 11: Sequence Diagram

Sequence diagram for Admin:

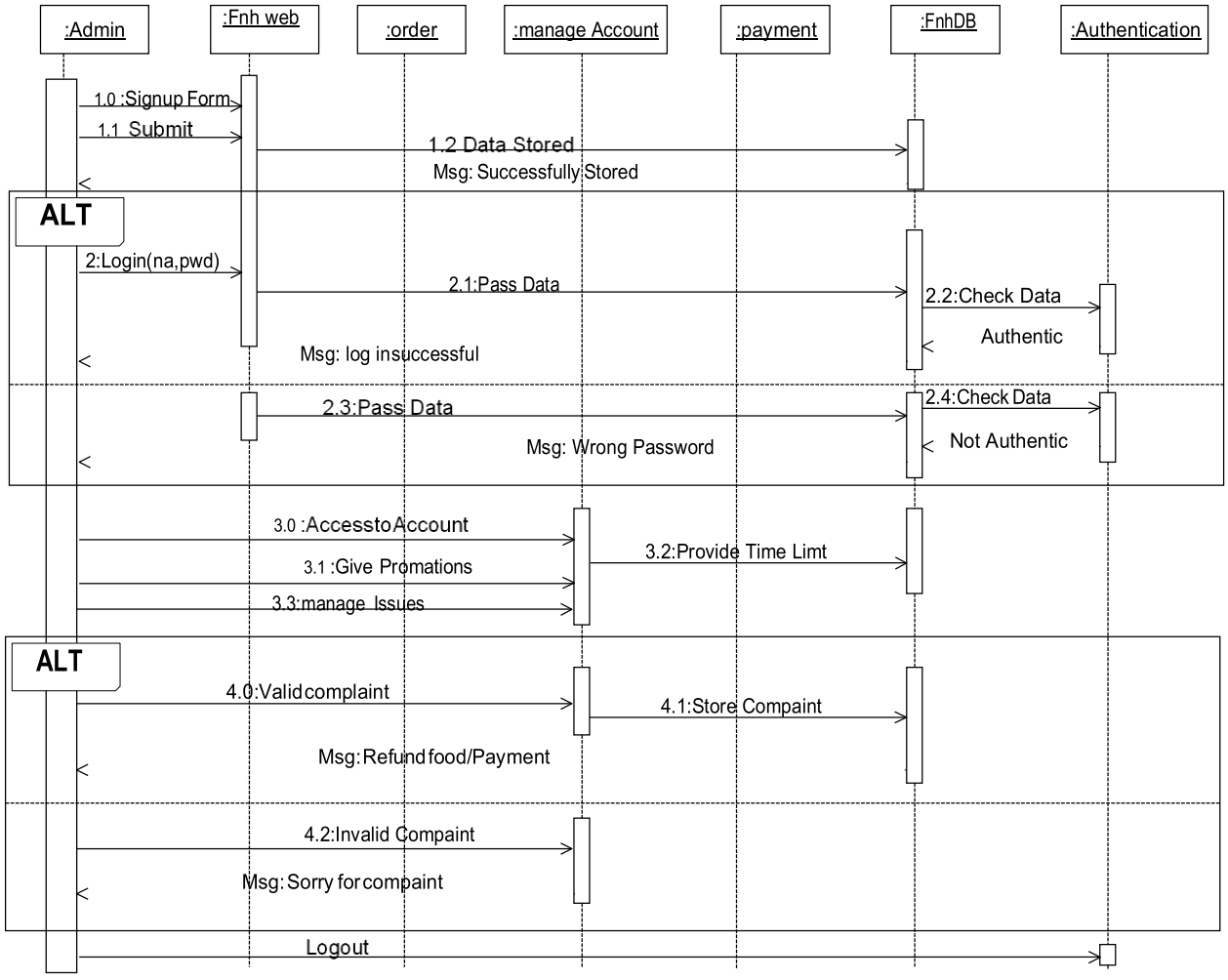

Figure 12: Sequence Diagram Admin

Sequence Diagram for chef:

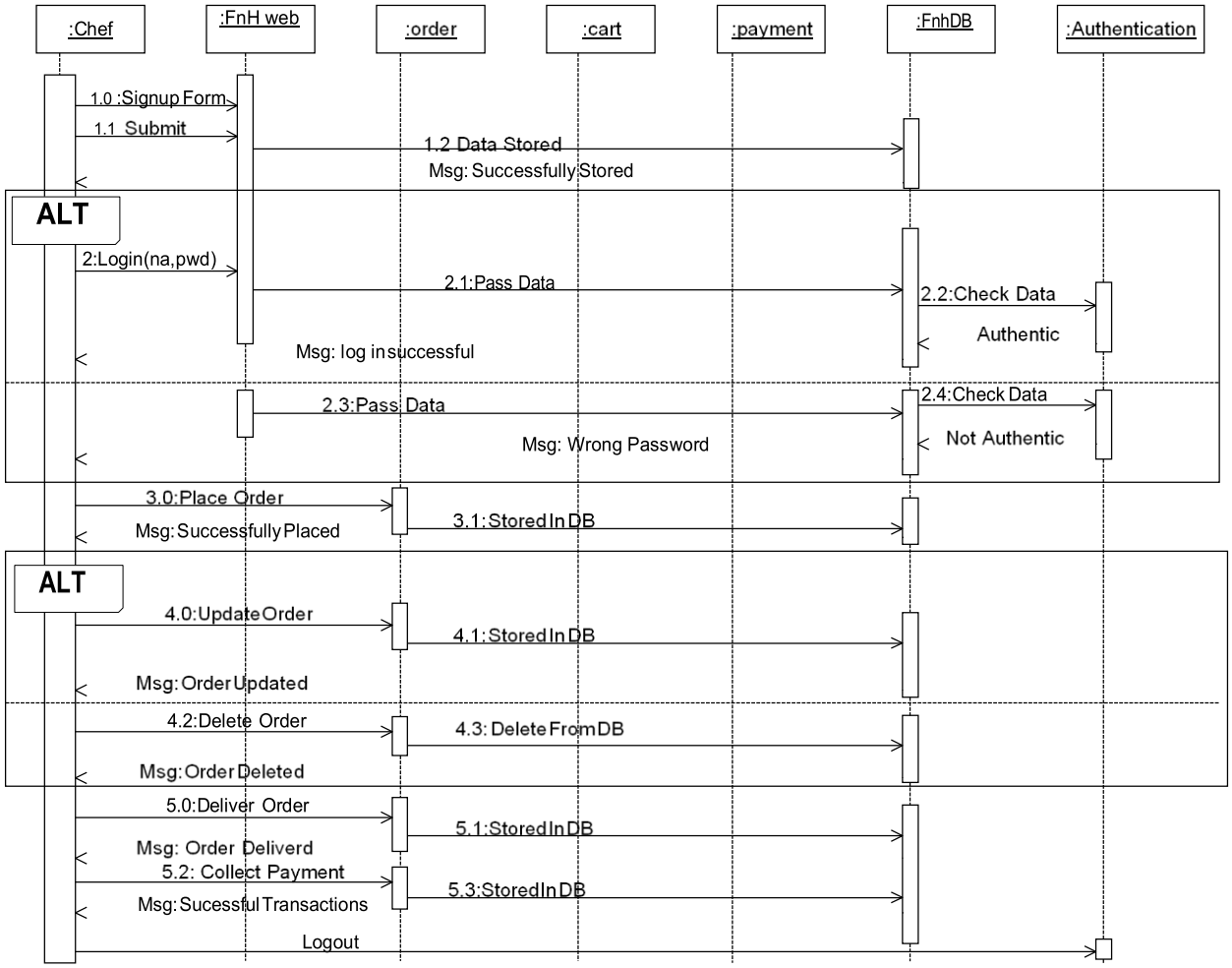

Figure 13: Sequence Diagram Chef

Sequence Diagram for customer

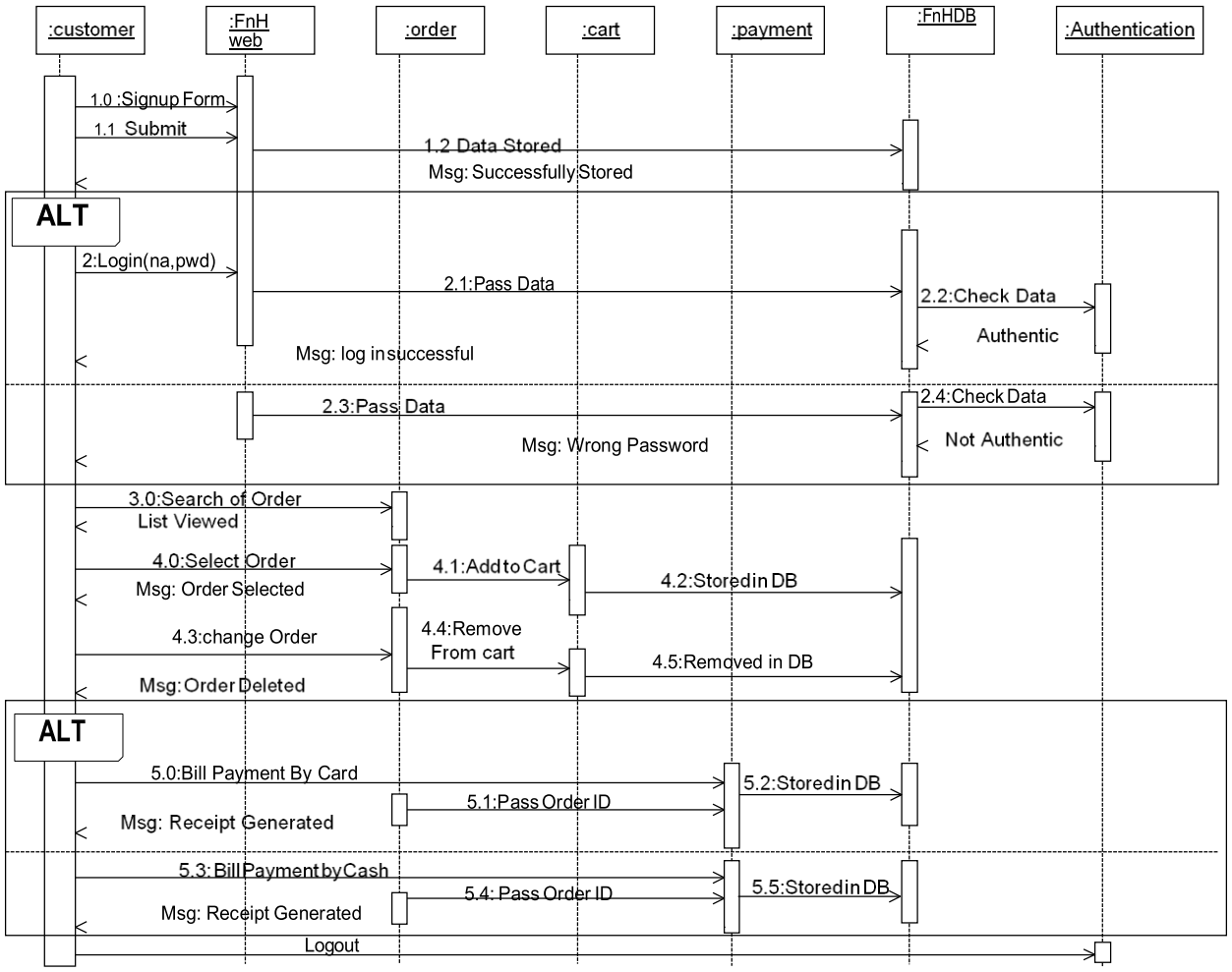

Figure 14: Sequence Diagram Customer

4.6. Operation contracts

Operation Contract 1

Operation name	Signup
Cross Reference	Signup
Pre-Condition	System Startup
Post Condition	Object Creation: user Attribute: Signup (Full Name, Email, Password, confirm password, Address, Contact Number, Gender) Association: Relationship between end-user and website.

Table 13:Operation contract 1

Operation Contract 2

Operation name	Login
Cross Reference	Login
Pre-Condition	User must be signed up
Post Condition	Object Creation: user Attribute: Login (Email, Password) Association: Relationship between end-user and website.

Table 14:Operation contract 2

Operation Contract 3

Operation name	Order
Cross Reference	Customer must select order by selecting.
Pre-Condition	Customer must in logged in
Post Condition	Object Creation: Order Attribute: Order (orderid, order detail, Cid) Association: Relationship between customer and website.

Table 15:Operation contract 3

Operation Contract 4

Operation name	Cart
Cross Reference	Orders must be placed by chef.
Pre-Condition	Food must be selected by customer.
Post Condition	Object Creation: Cart Attribute: Cart (CartID, orderid, order1, order2, …, ordern) Association: Relationship between customer and website.

Table 16:Operation contract 4

Operation Contract 5

Operation name	Deliver order
Cross Reference	Order
Pre-Condition	Order must be placed to chef.
Post Condition	Object Creation: order Attribute: Order (orderid, order detail, Cid) Association: Relationship between chef and website.

Table 17:Operation contract 5

Operation Contract 6

Operation name	Manage Account
Cross Reference	Admin
Pre-Condition	Admin must be logged in to website.
Post Condition	Object Creation: No object created. Attribute: No attributes Association: Relationship between admin and website.

Table 18:Operation contract 6

Operation Contract 7

Operation name	Payment
Cross Reference	Payment
Pre-Condition	Receipt generation of total bill of orders placed.
Post Condition	Object Creation: Payment Attribute: Payment(p.id, Cid, Cname, Pay method) Association: Relationship between customer and chef.

Table 19:Operation contract 7

Operation Contract 8

Operation name	Logout
Cross Reference	Logout
Pre-Condition	User must be login
Post Condition	Object Creation: No object created Attribute: No attributes Association: Relationship broke between User and website.

Table 20:Operation contract 8

4.7. Activity Diagram

Activity diagram shows very clearly that the user firstly signs up the account and if the user is already signed up then directly get login. Search for order, select order and submit and make payment for the delivery.

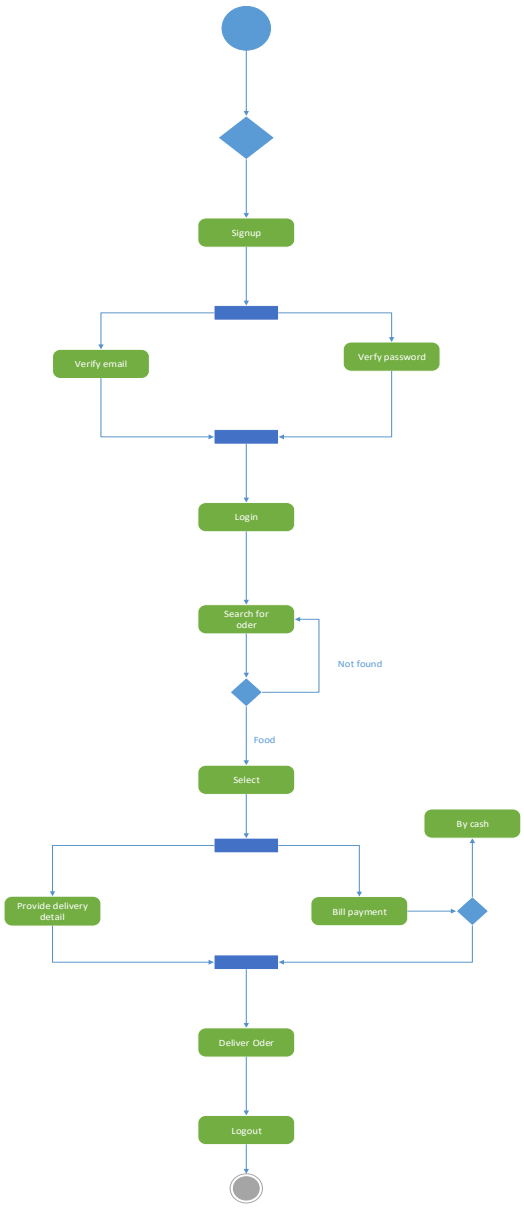

Figure 15: Activity Diagram

Order selection

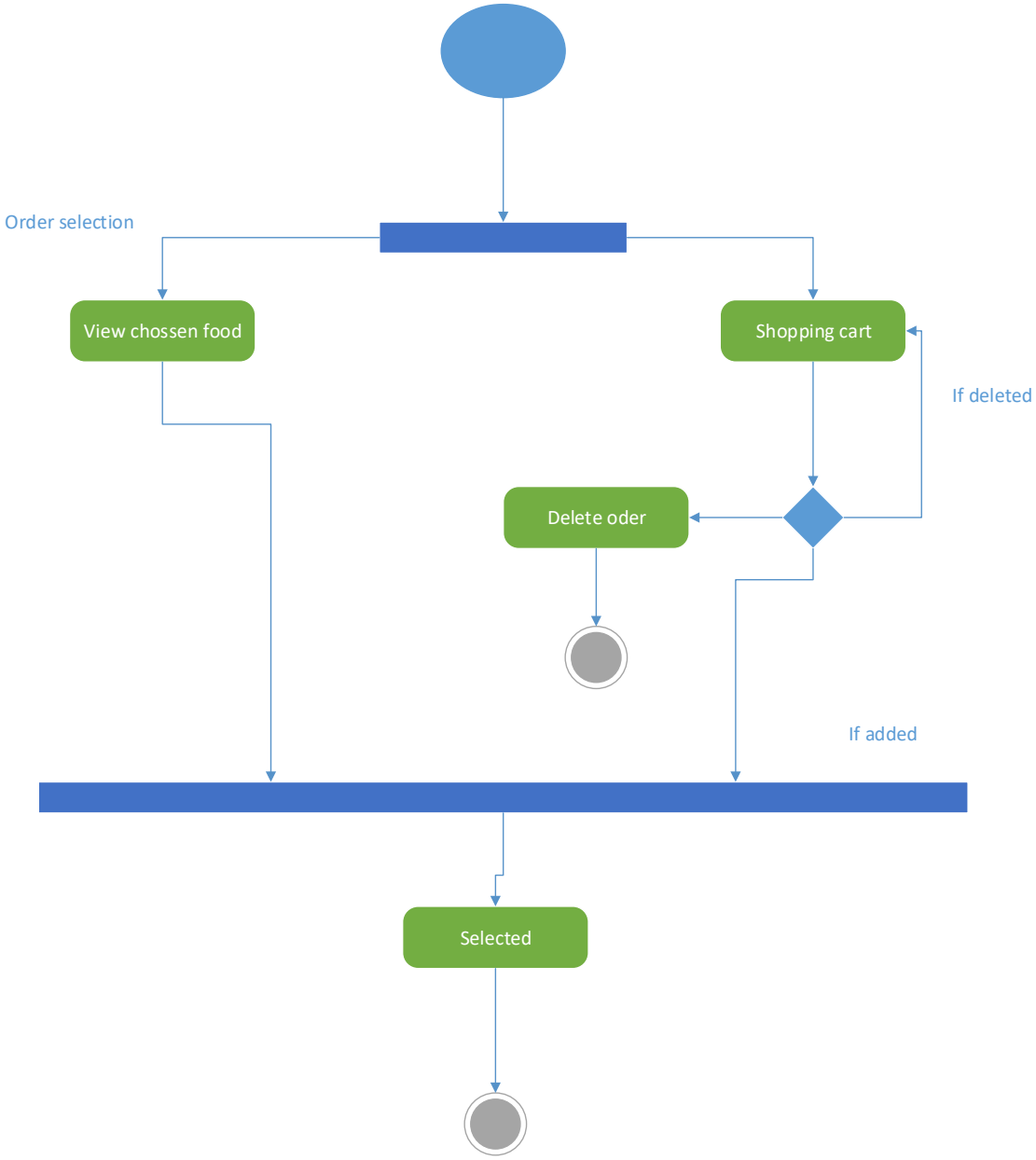

Figure 16: Activity order selection

4.8. State Transition Diagram

State diagram for admin:

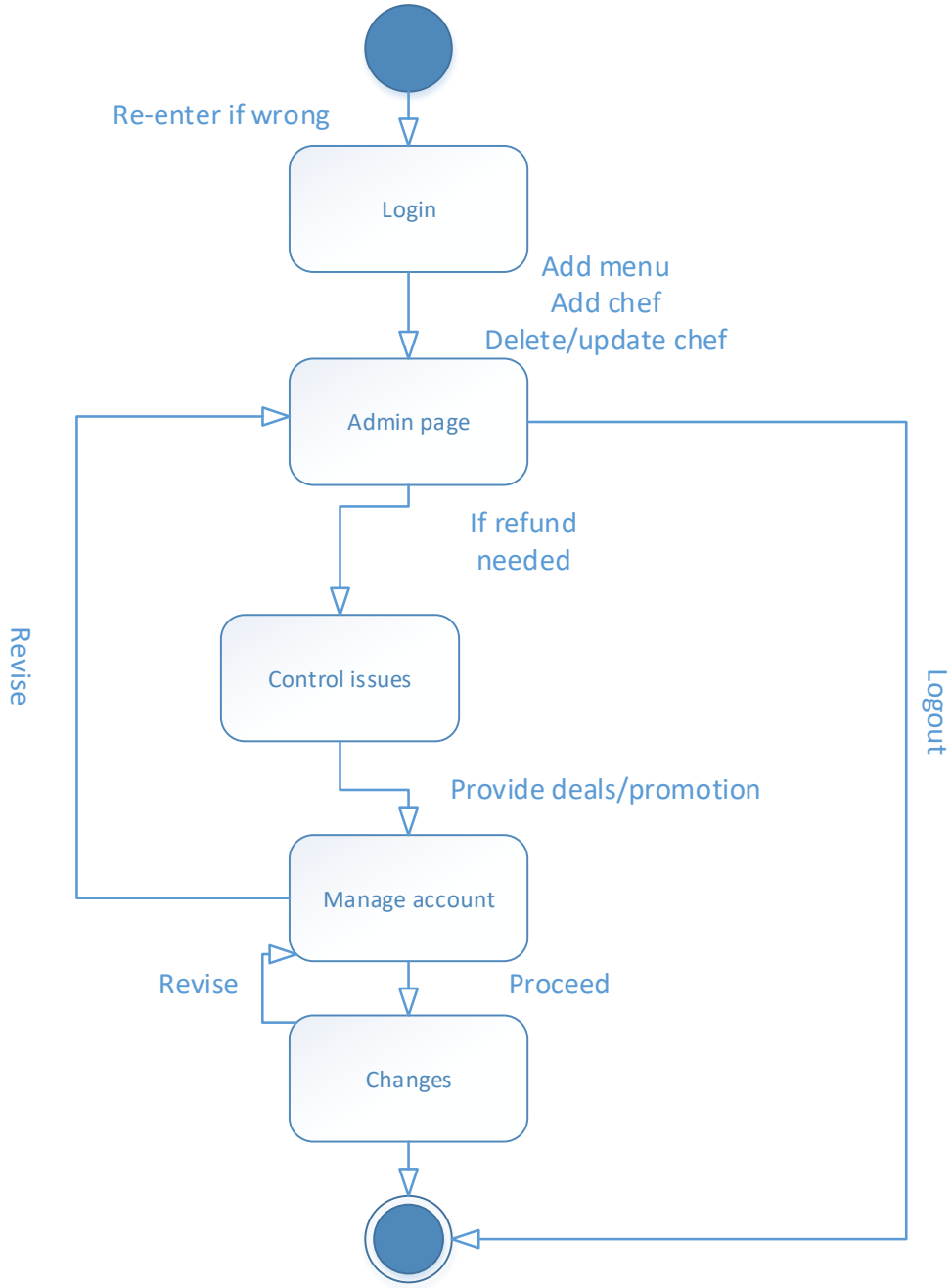

Figure 17: State Transition Diagram for Admin

State diagram for chef:

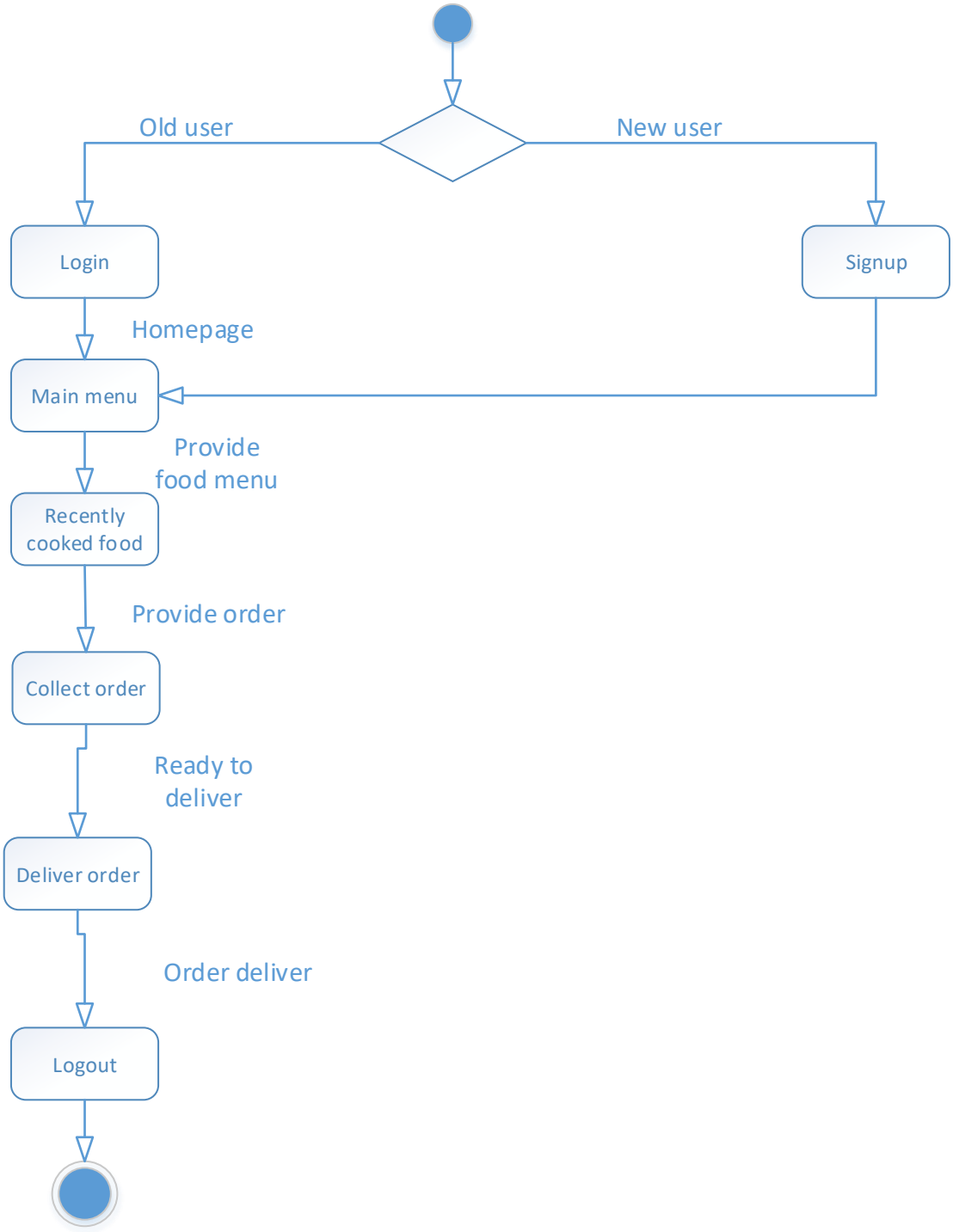

Figure 18: State Transition Diagram for Chef

State Diagram for customer:

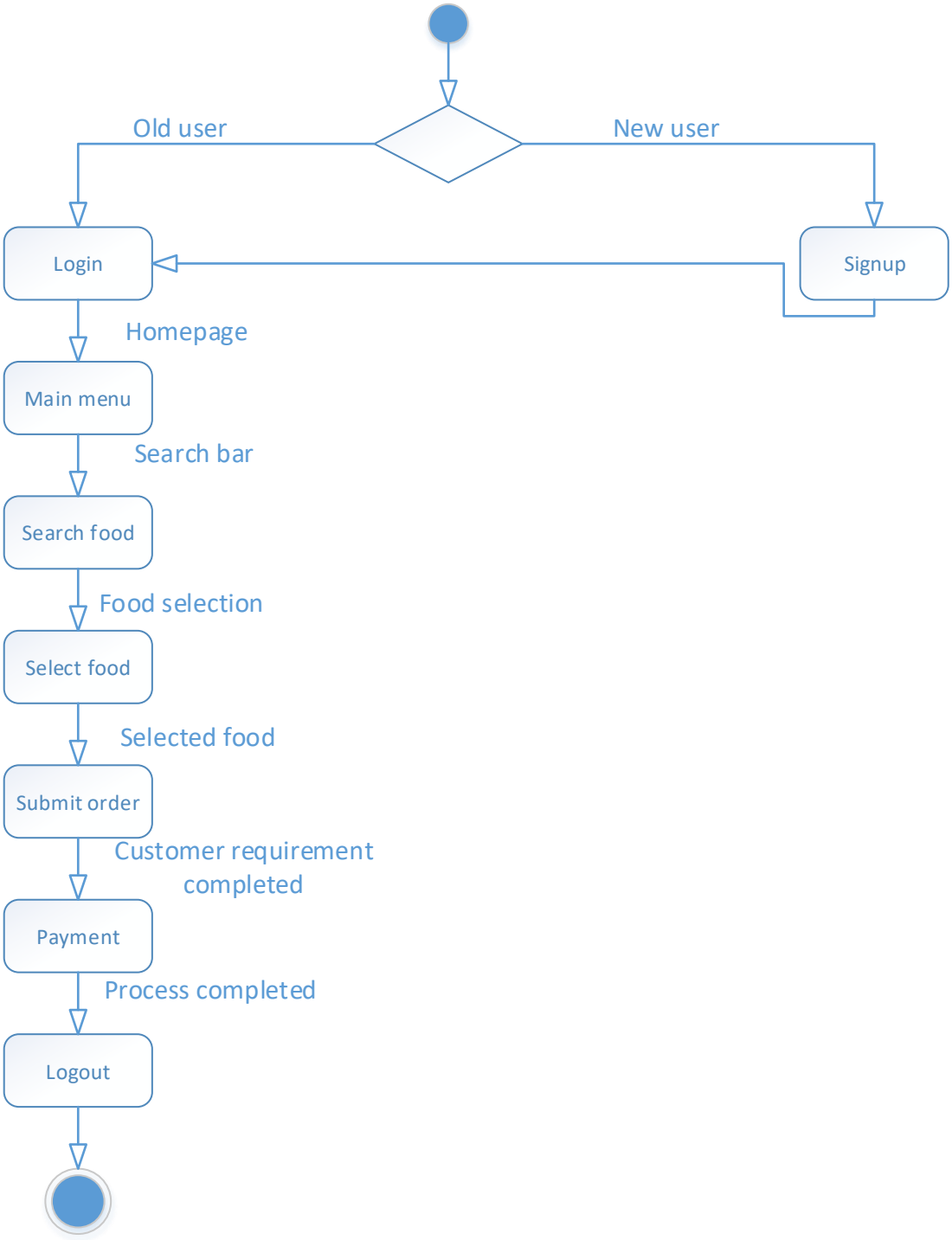

Figure 19: State Diagram for Customer

4.9. Data Flow diagram [*only if structured approach is used - Level 0 and 1*]

Context Diagram:

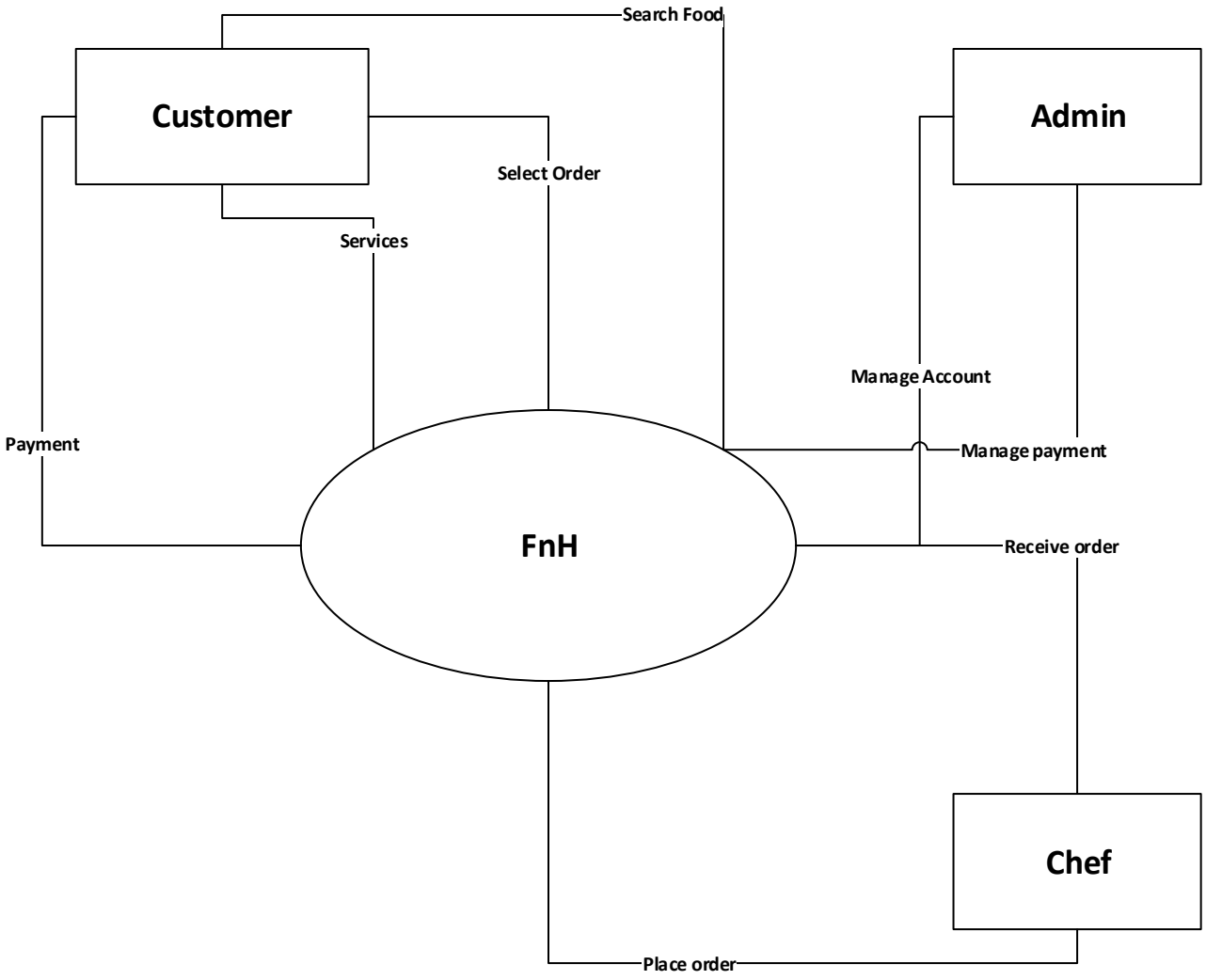

Figure 20: DFD context level

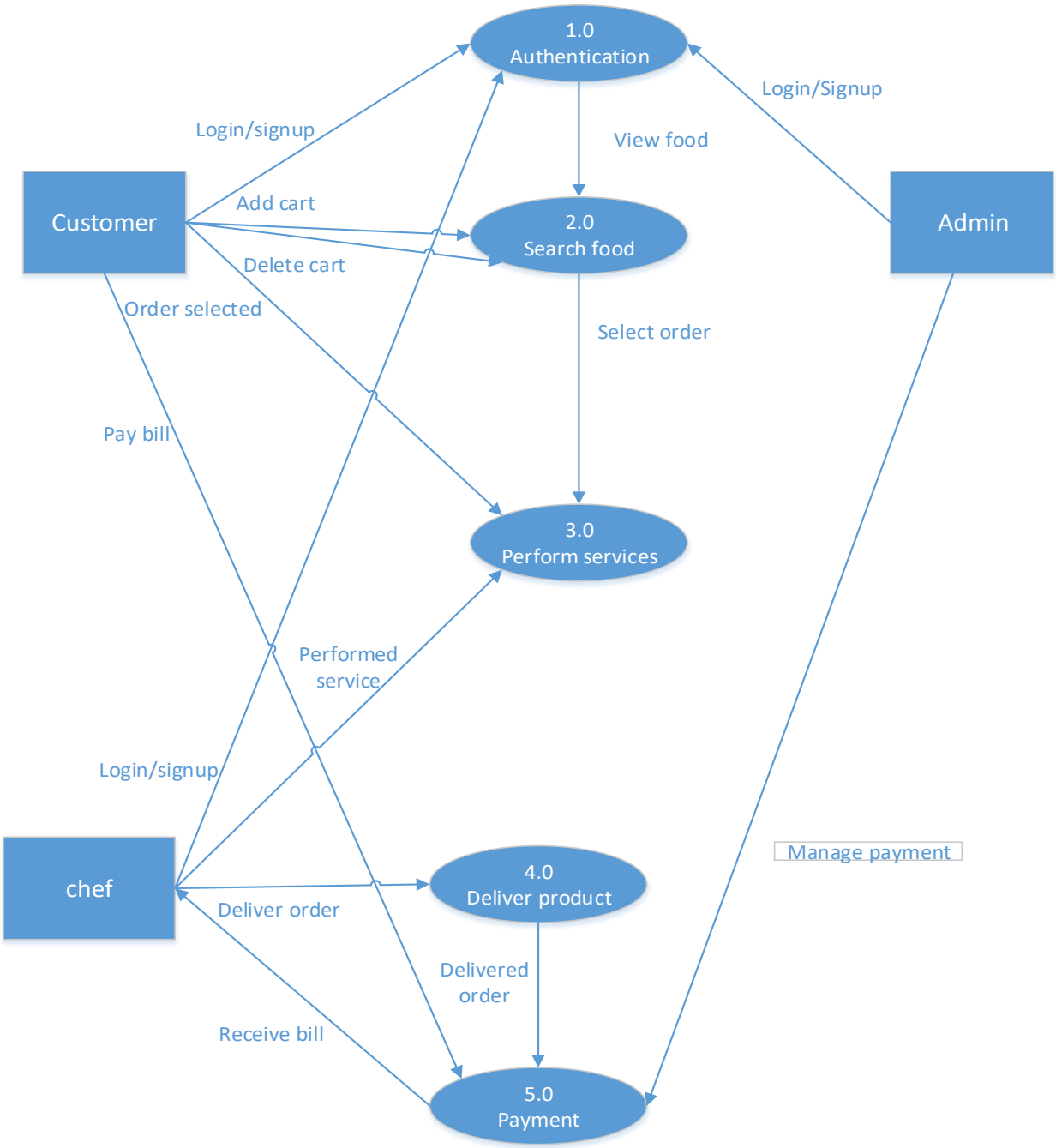

Figure 21: DFD level 0

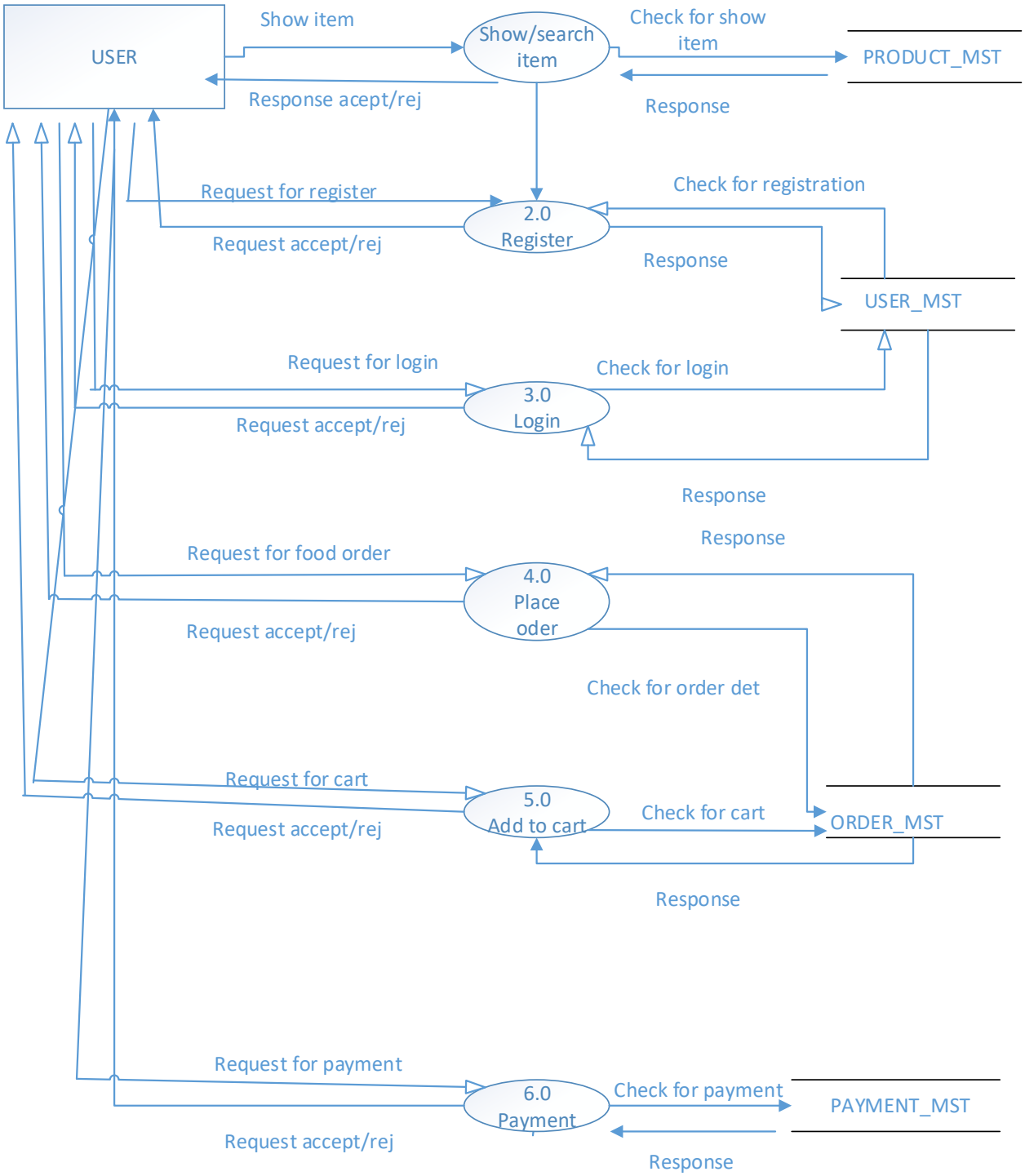

Figure 22: DFD level 1

Chapter 5

Implementation

Chapter 5: Implementation

Implementation and deployment are the part in which the software is implemented or deploying into real world. This process is carried out after analysis and designing phase. We use visual studio and php storm for PHP coding. We use MySQL database for storing the data. We use classes and attributes to create tables in database. In this chapter we tell which type of tools & techniques that are used, which web servers are required for our website and which coding standards are used.

5.1. Important Flow Control/Pseudo codes

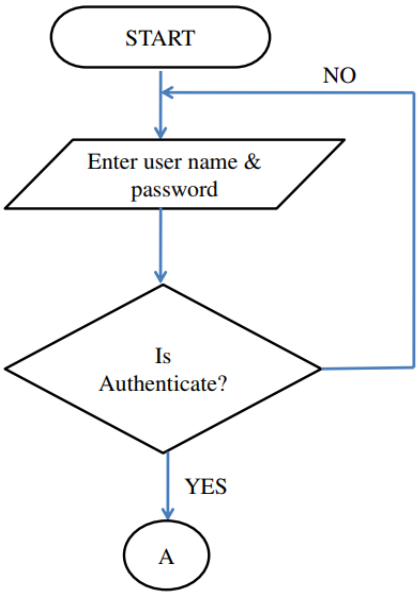

Figure 23: Pseudo codes

5.2. Components, Libraries, Web Services and stubs

- Apache Server
- HTTP server
- XAMPP server
- Secure user profile
- Administration module
- Automatic receipt generation
- Mobile web Friendly
- Social media component

5.3. Deployment Environment

In Deployment environment Apache is used to run HTTP servers. My SQL server is used to store data in database. There are some processes involved in deployment environment.

- Development
- Testing
- Staging
- Deployment

Development

We make code and make changes according to user requirements in local environment.

Testing

In testing phase, we integrate the sub systems as it is the integration environment. Testing is carried out if problems are faced, then changes may occur. It may also be quality assurance.

Staging

This is the phase where tested changes are run against environment and data to ensure that the software/system will work properly when deployed in user's system.

5.4. Tools and Techniques

Front-end:

- HTML
- CSS
- JavaScript
- Bootstrap

Back-end:

- PHP
- XAMPP

5.5. Best Practices / Coding Standards

- Communication with stakeholders
- No repetition ofcoding
- Every requirement isdocumented
- Function and classes are always commented during coding
- Use a detailed work definition document
- WBS (work breakdown structure) should be made to follow plan.
- Ask for feedback
- Agreements should be managed by admin if needed.
- Meetings should bearranged.

5.6. Version Control

We are launching the first version of FnH . New versions will be planned to launch in future.

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

Testing and Evaluation is the process by which a system or components are compared against requirements and specifications through testing. The results are evaluated to assess progress of design, performance and supportability. Test-case specification is performed for system testing by keeping in mind several issues, which are discussed in the following subtopics.

6.1. Use Case Testing

Use Case Testing is a functional black box testing technique that helps testers to identify test scenarios that exercise the whole system on each transaction basis from start to finish.

- Use Cases capture the interactions between 'actors' and the 'system'.
- 'Actors' represents user and their interactions that each user takes part into.
- Test cases based on use cases and are referred as scenarios.

Sign in

Main Success Scenario	Step	Description
A=Actor	1	A: provide required detail.
S=System	2	S: System Save Data in database and make profile of chefs and customers.
Extension	2a	S: User must visit the sign-in page.

Login

Main Success Scenario	Step	Description
A=Actor	1	A:Enter Email and password
S=System	2	S:Valid Password
	3	Allow Account Access
Extension	2a	S: Invalid Password Message Display on the Screen asks for Re-enter password.

Logout

Main Success Scenario	Step	Description
A=Actor	1	A:Enter Logout
S=System	2	S: System Show Message to User logout
Extension	2a	S: User must login Message Display on the Screen

Menus

Main Success Scenario	Step	Description
A=Actor	1	A: For searching order
S=System	2	S: System Show Menu list
Extension	2a	S: User must browse the Bawarchi khana website

Select order

Main Success Scenario	Step	Description
A=Actor	1	A:View Order detail
S=System	2	S: System show selected order in cart.
Extension	2a	S: User must search the orders.

Submit order

Main Success Scenario	Step	Description
A=Actor	1	A:Submit selected order
S=System	2	S: Generate receipt against selected order
Extensions	2a	User must provide the delivery location.

Bill Payment

Main Success Scenario	Step	Description
A=Actor	1	A:Pay bill against receipt.
S=System	2	S: Display confirmation message.
Extension	2a	S: User must login and make order.

Provide Food Menu

Main Success Scenario	Step	Description
A=Actor	1	A:Menu provided by chef on chef profile which will be visible to customers.
S=System	2	S: System show the food detail uploaded by chef to customers.
Extension	2a	S: Chef must be login.

Collect Order

Main Success Scenario	Step	Description
A=Actor	1	A:collect orders selected or submitted by customers
S=System	2	S: System will show the delivery charges and time.
Extension	2a	S: Chef must be login.

Deliver Food

Main Success Scenario	Step	Description
A=Actor	1	A: Chef will update customer about food that food is ready.
S=System	2	S: System will ask feedback.
Extension	2a	S: User must login and order food.

Manage Accounts

Main Success Scenario	Step	Description
A=Actor	1	A: Admin will manage accounts when bugs occur and offer promotions.
S=System	2	S: System show promotions and discounts.
Extension	2a	S: User must login.

6.2. Equivalence partitioning

Mobile number: Must be 11 digits.

Invalid	Valid	Invalid
3767788238	03001234567	45673030

6.3. Boundary value analysis

Login

Email

Invalid (min-1)	**Valid (min, +max, -min, max)**	**Invalid (max+1)**
3	3 to 30	30

Password

Invalid (min-1)	**Valid (min, +max, -min, max)**	**Invalid (max+1)**
8	8 to 25	25

6.4. Data flow testing

Data flow testing is a family of test strategies based on selecting paths through the program's control flow in order to explore sequences of events related to the status of variables or data objects.

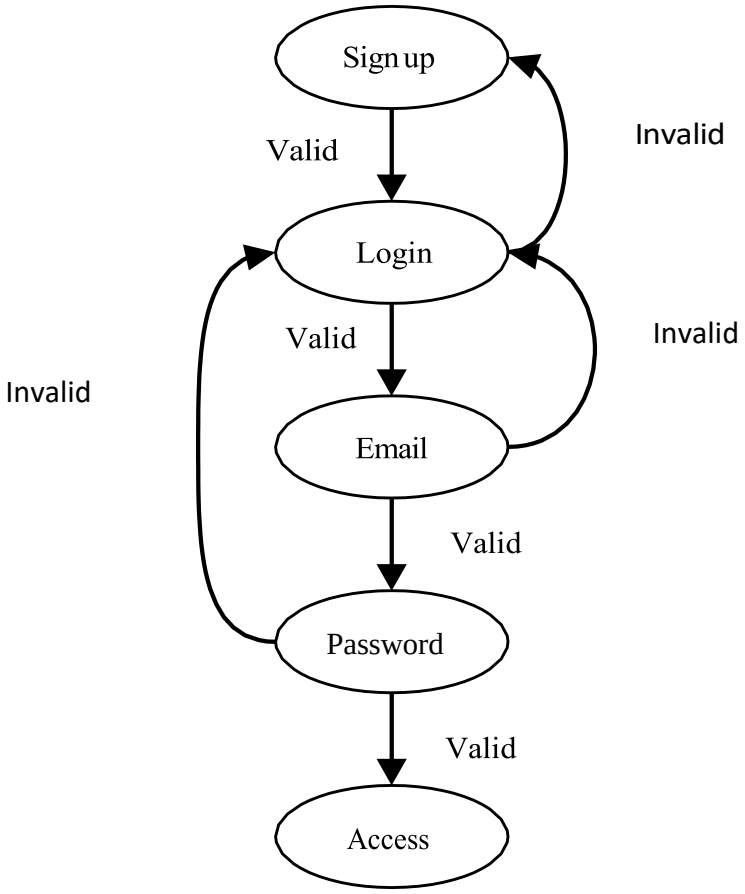

Figure 24 Data flow testing

6.5. Unit testing

Unit testing is a white-box testing technique. The main consideration in this test is verification of all modules of the software system. Each module is unit tested, as follows:

- Unit testing for the module User Management is tested by valid user or invalid user.
- Unit testing for the module User Account management is provided by testing Login, Logout and creating new or deleting updating existing user.
- Unit testing for the module Detail of order result give detail accurately.

- Unit testing for the module Add/update/delete food menu detail.

TEST CASES FOR UNIT TESTING OF MODULES

Test Case No	Identifier	Test item	Input Specifications	Output Specifications	Pass /Fail	Description
1	Fnh-SU-01	Signup	Fill All required Fields	Field not selected, Welcome Message	Pass	Signup is required for every user.
2	Fnh-LOG- 01	Login	Email, Password	Error message, Welcome Message	Pass	To verify login user authentication
3	fnh-SEL-01	Select order		Add to cart	Pass	Selected food orders are added to cart.
4	fnh-SUB-01	Submit order	Order is selected	Order is finally submitted for ordering.	Pass	Order is received by chef.
5	fnh-CO- 01	Collect Order	Collect Submitted order	Customer detail is provided	Pass	Chef collect the order
6	fnh-DO- 01	Deliver Order	Customer Detail is provide	Receive Payment	Pass	Food is delivered by the chef

6.6. Integration testing

Integration testing is the technique for testing the interfaces of software components. Each software components in unit tested, and all the components are integrated to perform together. The tests are conducted to ensure that the components are working properly after interfacing.

All modules are integrated by an incremental approach, and integration testing of the system is performed as follows:

- Integrate login module and test that the software is properly connected to the database.
- Integrate all modules and test by inserting updating, and deleting records.

Test Case No	Identifier	Test item	Input Specifications	Output Specifications	Pass /Fail	Description
1	ITS-REG- 01	Signup, Login	First Signupis required then Login	Verified user can Access, Must Signup	Pass	Signup is required for every user.
2	ITS-MENU-01	Chef, Menu	Create Menu, Update or Delete	Menus Display on daily or weekly menu, Inactive Status will not be displayed	Pass	Chef must fill all required fields to provide menu
3	ITS-ORD-01	Customer, Cart	Customer add order to cart	Quantity of order can increase, Generate Bill	Pass	Must Provide Address and contact number

6.7. Performance testing

Sr #	Function Name	Performance
1	Application Loading	High
2	Database Connectivity	High
3	Store Data in Database	High
4	Retrieving data from database	High

6.8. Stress Testing

Stress testing is used to test the stability & reliability of the system. This test mainly determines the system on its robustness and error handling under extremely heavy load conditions. Most prominent use of stress testing is to determine the limit, at which the system or software or hardware breaks. Stress testing executes a system in a manner that demands resources in abnormal quantity, frequency, or volume. Special tests may be designed that generate ten interrupts per second, when one or two is the average rate Input data rates may be increased by an order of magnitude to determine how input functions will respond, Test cases that require maximum memory or other resources are executed, Test cases that may cause thrashing in a virtual operating system are designed, Test cases that may cause excessive hunting for disk-resident data are created. Essentially, the tester attempts to break the program. Variation of stress testing is a technique called sensitivity testing

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

Our website is about delivering the healthy and fresh home cooked food. We would like to expand the service to delivering items from door by door. Placing an order with FnH could not be more convenient. Customers visit our website and choose from a variety of recent home cooked food. The customer will place their order through us, and will receive the total cost which includes the price of food and tax from our Chef as well as our own delivery charge. The customer then has the option to pay online with a credit card or choose the option to pay with cash, which we will collect at the time of delivery. Our concept for the website is in development, but we expect to receive a high volume of our orders via the internet.

7.2. Achievements and Improvements

- Main achievement is we have provided opportunity of earning to women working at homes.
- Learnt how to survive in a competitive business environment.
- Our platform is providing employment opportunity to Chefs and End users.
- Learnt to work in a team.
- Learnt time management.
- We will try to improve & take care of our project, we will try to make it more secure, maintain its availability and it will be more responsive at a time.

7.1. Critical Review

Main goal is we are providing platform for household women who want to work and earn but are restricted. As we are providing platform for both chefs and customers.

We are facilitating them with platform where they can collect orders and can make money. We know our competitors and we have learnt how to survive in a market, for being stay in a market we must have to take a uniqueness to compete everyone in a business environment.

7.2. Lessons Learnt

We learnt how to work in team and make a successful project without any failure. We briefly learned about PHP. Learnt how to compete with competitors for more earning and for survival in market.

7.3. Future Enhancements/Recommendations

We will make android app where our customers will able to buy food items from our android application with full transaction process. Now we are delivering the food manually and later on we will deliver food properly by delivery boys.

Appendices

Appendix A: Information / Promotional Material

All types of businesses use promotional materials to market their products and services. Promotional materials can include collateral material, advertisements and even small, everyday products that contain the name and phone number of a business. Promotional products can serve many purposes before or after.

A.1. Broacher

A.2. Flyer

A.3. Standee

A.4. Banner


About us
we provide fresh and hygienic food at your doorstep
03360418864
www.fr:hfood.com
Homemade Fresh and hygienic food
We deliver the best food arround

Reference and Bibliography

Reference and Bibliography

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