Champion's Slice System

Software Requirements Specification

Phase 1 Report

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Revision History

Date	Version	Description	Author
October 20th, 2020	1.0	Create a software project specification.	Aliaa Abdelrahman Ismail Akram Inna Baryanova Kevin Peter Murjan Urmey

Table of Contents

Software Requirements Specification

1. Introduction

A brief summary of our software engineering requirements is specified here. This section is divided into:

- Purpose
- Scope
- Definitions
- Acronyms
- Abbreviations
- References
- Overview

Our website will make use of HTML, CSS, and Python script.

1.1 Purpose

This SRS's purpose describes a Pizzeria system. A detailed explanation of the purpose of the system interfaces, features, system activity, constraints, and user input responses will be provided throughout this report. The main interactivity involves:

1) Restaurant (Champion's Slice System [ChSS]):
    a) that provides menus of food led by two competing chefs
    b) delivered by two competing delivery drivers,
    c) and managed by a superuser/manager who handles:
        ■ Customer compliments/complaints
        ■ hiring/firing/raising/cutting staff (pay)
        ■ And the delivery people.
2) Online menu for customers:
    a) Registered customers who can browse/search, order, and vote (1-5 stars)
    b) VIP.
3) Surfers who can:
    a) Browse menus and ratings only
    b) But can apply to become registered customers with a fixed amount of deposit money
        ■ checked by the manager.

1.2 Scope

The Champion's Slice System (ChSS) will be a web application for convenient (and detailed) pizza ordering from local locations. Ideal for large gatherings.
Using Google Maps API, the ChSS will pinpoint location access for local pizzeria's. Alternatively, users can provide an address for delivery instead of their current location (in the case of ordering away from home). We chose a pizzeria system to allow a myriad of pizza types in an array style customization format with a dynamic shopping cart, "word of mouth"-style rating system for customers and surfers, all within a secure user account system. Use-Case model is provided under the "2.1 Use-case diagram".

1.3   Definitions, Acronyms, and Abbreviations

Terms	Description
ChSS	Champion Slice System
Customers	Customers who make the order. They can rate the service and evaluate the pizza.
Chefs	Chefs who independently decide the menu.
Managers	Managers who handle customers' complaints and compliments. Determine payments and fire/hire chefs and deliverers.
Deliverers	In charge of delivering the order as fast as possible from the pizza store to the destination.

1.4   References

Dropbox assignment:

https://www.dropbox.com/s/6xao0nufjlzoch2/f20_proj_req.docx?dl=0

Format:

http://www-cs.ccny.cuny.edu/~csjie/322/spec_sample.pdf

HTML, CSS, and Python tutorials/textbook:

- https://www.w3schools.com/html/default.asp
- https://www.w3schools.com/css/default.asp
- https://www.greenteapress.com/thinkpython/thinkpython.pdf

1.5   Overview

- **Introduction:** Introduces the contents of the specifications. Including:
  - Purpose
  - Scope
  - Definitions, Acronyms, and Abbreviations
  - References

- **Overall description:** Describes the overview of product functionalities. Including:
  - Use-Case Model diagram
  - Assumptions and dependencies

- **Specification requirements:** Detailed description of the system. Explaining the functionality of the Use-Case Diagram.
- **Supporting information:** additional information that makes the specification of the system easier to use.
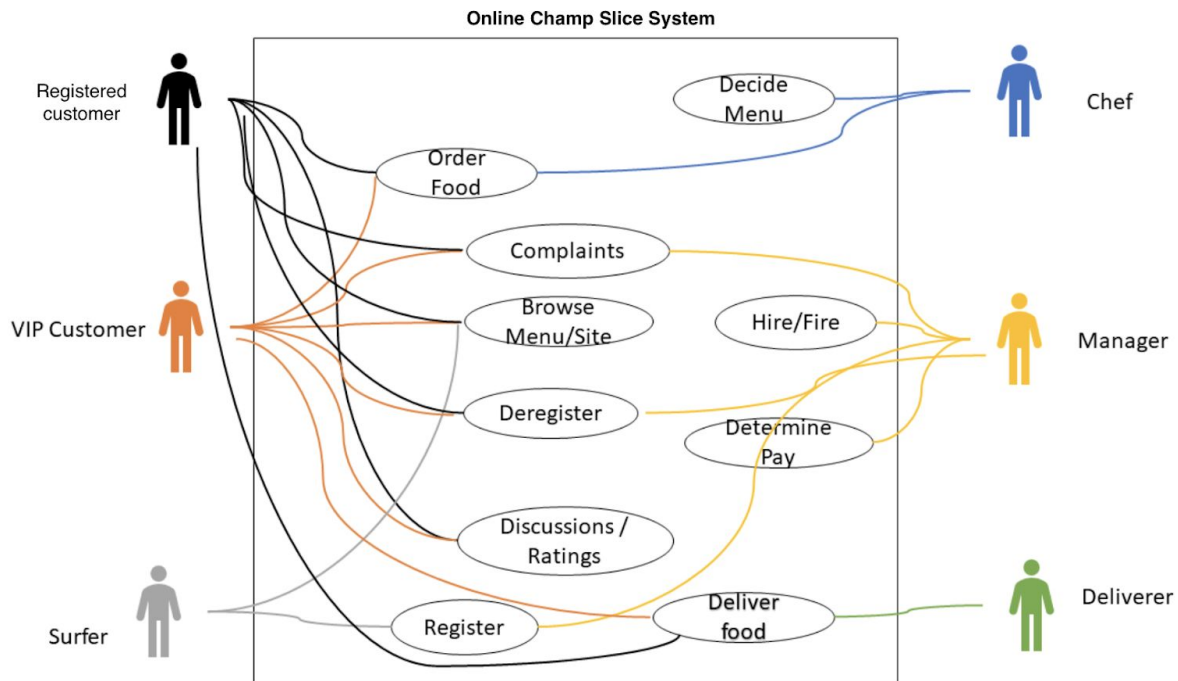
2. Overall Description

In this section, the overall model of our online Champion's Slice System (ChSS) will be demonstrated using the use-Case Model Diagram. This visualizes and describes the functionalities of our

system and explains user interaction with the system. The first section includes the Use-case diagram and the second section will provide the assumptions (of ingrained behavior) and dependencies (habits) made by the user.

2.1   Use-Case Model Survey

Use-case model diagram

- Users:
    1. Types of customers:
        a. Registered customer
        b. VIP customer
        c. Surfer
    2. Chefs
    3. Managers
    4. Deliverers

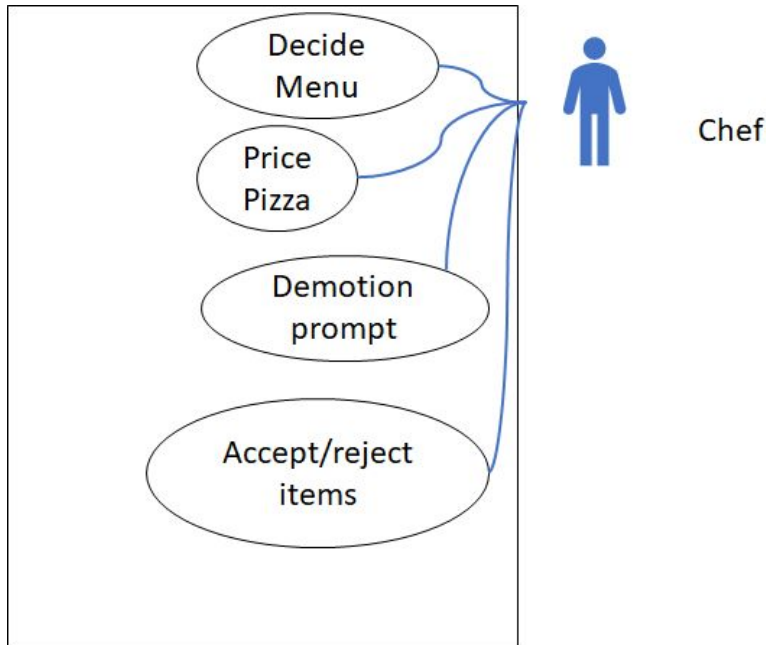**2.2   Assumptions and Dependencies**
- The currency used for placing an order is the only USD, any other currencies will not be accepted. Using debit/credit cards is allowed...
- Customer information and privacy will be protected.
- Customers hold the responsibility to call the pizzeria establishment if they don't receive their order for which they will be charged by default.
    - They can contest this issue.
- Internet access is necessary to be able to login into the user account and make the order.

3. Specific Requirements

This SRS section showcases a detailed analysis of the available functions in our Champion's Slice Ordering System.

3.1   Use-Case Reports

3.1.1 User Class 1 - Chef

Use-case: Decide the menu
Description: Decide an overview of the menu theme and contents.

Use-case:Pricing of pizza
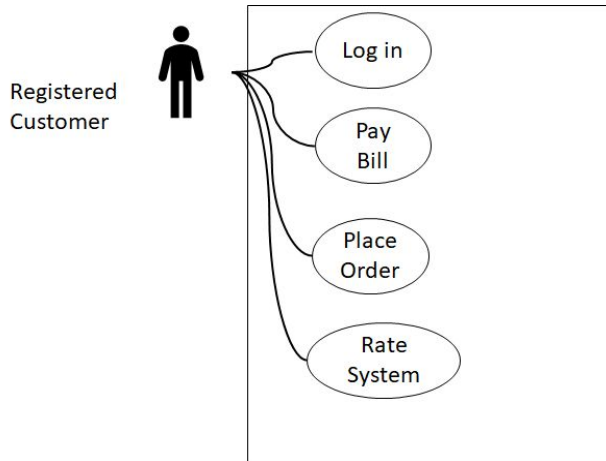Description: Describe the price range of various pizza sizes.

Use-case: Demotion prompt
Description: Low ratings or 3 complaints, or no order at all for 3 days risks a demotion.

Use-case: Accepts/Rejects an item
Description: The Chef can accepts or rejects an item after being ordered

3.1.2 User Class 2- Registered Customer

Use-Case: Log In
Description: Every customer must register to an account to place an order.

Use-case: place order
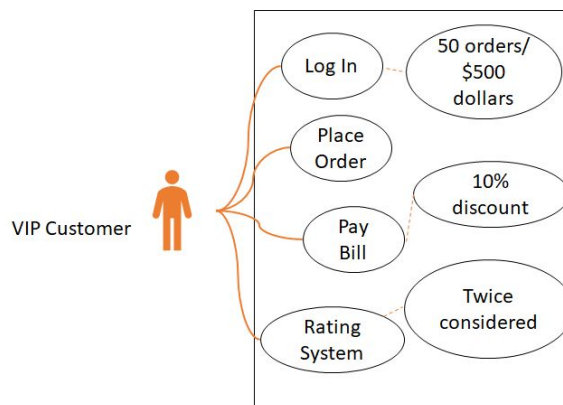Description: customer can place an order from the menu item

Use-case: Pay bill
Description: Customer can decide when to pay a bill after placing an order. They can pay through cash or card.

Use-case: Rate System
Description: After receiving an order, customers can rate the food from 1 star to 5 star.

3.1.3 User Class 3 - VIP Customer

*VIP customers have all Use-cases of regular customers including the following.
Use-case: 50 Order placed or $500 Spent
Description: When a customer spends $500 or 50 orders they become VIP Customer.
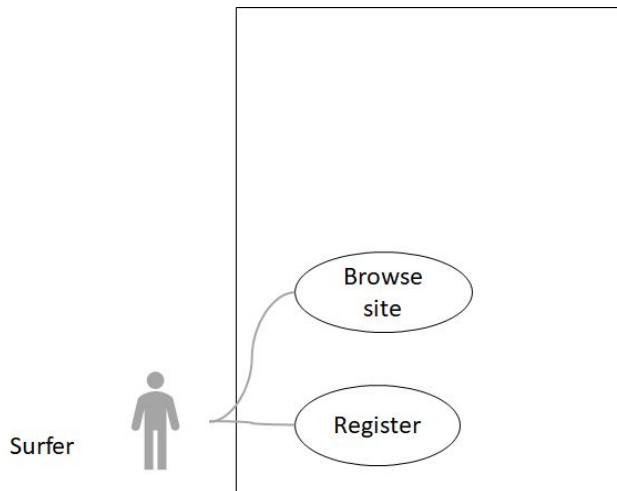
Use-case: 10% Discount
Description: VIP customer gets 10% discount each time they place an order.

Use-case: Compliment/Complaints
Description: Each time a VIP customer complaints/compliments their response taken as twice the consideration.
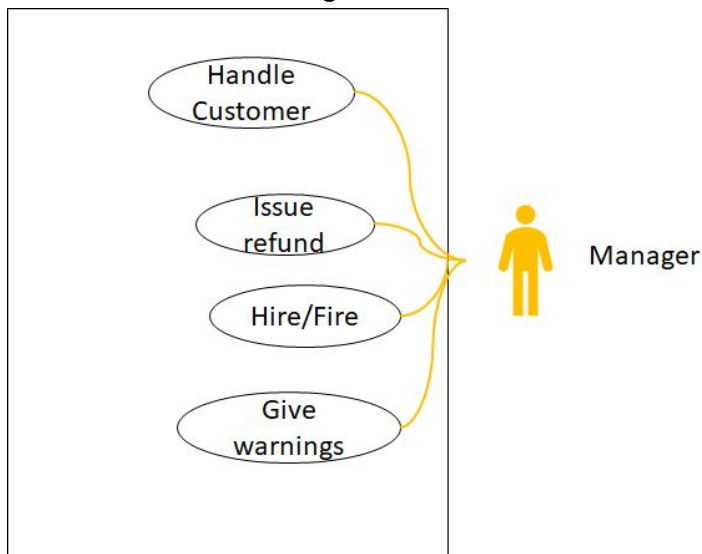
3.1.4 User Class 4 - Surfer

Use-case: Browse the site
Description: Surfer can look through menu items and reviews.

Use-case: Register
Description: Surfers can apply to become customers by depositing a fixed amount of money.

3.1.5 User Class 5 - Manager

Use-case: Handle Customer
Description: Manager handles the registration of customers and deals with any

complaints/Compliments they have.

Use-case: Issue refund
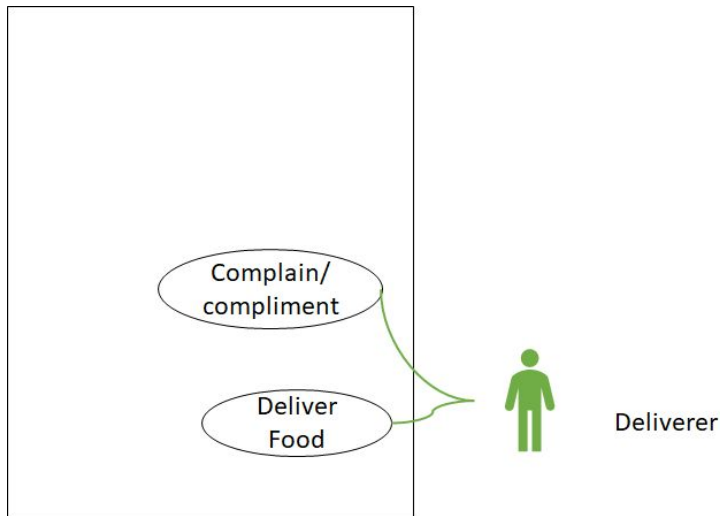Description: Manager can Issue refund to the customer after paying the bill.

Use-Case: Hire/fire
Description: The manager can hire or fire employees based on how good or bad they do.

Use-Case: Give warnings
Descriptions: The manager can give warnings to to workers and customers which will dictate how much workers make and if customers will get deregistered .

3.1.6 User Class 6 - Deliverer

Use-case: Deliver food
Description: Deliver food to customers

Use-case: Complain/compliment
Description: Deliverers can leave a complaint or compliment about the customers they delivered to.

3.2   Supplementary Requirements

3.2.1 Functionality: This section deals with functional requirements common to multiple use cases.

3.2.2 Reliability: the delivery system should be available 24/7. All orders should be logged and timed.

3.2.3 Usability: User interface should be designed for easy usage. The system should be usable for a computer-literate user community. The user interface should also include online step-by-step instructions that ensure users are able to use the system.

3.2.4 Performance: System must complete most of the instructions within a short period of time. It should be able to access the database within a logical latency. It should also support simultaneous users against the central database at any given time.

4. Supporting Information

This Software Requirements Specification report includes:
- Table of contents
- Index