<CSC 322 Software Engineering>

<Order/Delivery Food Application>

Software Requirements Specification For <Feature>

Version <1.0>

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Revision History

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<3/11/2019>	<1.0>	<The first template for CSC322 Project>	<Garland Qiu> <Shein Htike> <Ekaterina Arlanbaeva>

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1. Introduction

The SRS fully describes the external behavior of the application or subsystem identified. It also describes nonfunctional requirements, design constraints, and other factors necessary to provide a complete and comprehensive description of the requirements for the software system we propose.

1.1 Purpose

The purpose of this document is to fully describe the intended purpose of our product. This document will describe the engineering problem we wish to solve and the nature of our solution. It will include a description of all potential users of our application and how they will engage with our application. By the end of reading this, the user should have a concrete idea of the aim of this software project.

1.2 Scope

Our application sets out to facilitate the production, sale, and delivery of sushi from raw ingredients to the prepared product. The program will consist of one central database to keep track of all information in the process of creating and delivering sushi such as:

- Inventory management for restaurants
- Payrolls for cooks and salespeople
- Financial management for restaurant owners
- Gig based delivery jobs for delivery people
- Delivery tracking for customers

Additionally, there will be front end applications for all users to manage any part of the sushi process. Separate front ends will be available for:

- Managers
- Salespeople
- Cooks
- Delivery people
- Customers

1.3 Definitions, Acronyms, and Abbreviations

Front End: What the users will be seeing.

Back End: What the application is doing to present everything in the front end.

GUI: Graphic User

Interface: what the user will be shown

Dish/ Dishes: The food menu items

1.4 References

"3.3 Design of Relational Database Schemas." *A First Course in Database Systems*, by Jeffrey D. Ullman and Jennifer Widom, Prentice-Hall, 1997, pp. 85–92.

Django (Version 2.2.6) [Computer Software]. (2013). Retrieved from https://djangoproject.com.

1.5 Overview

The rest of this document will describe the software application fully and in detail.

Section 2 will lay out the goals of the application we wish to create. 2.1 will contain a use case model in which all interactions between all user types and the application will be listed. 2.2 will list our assumptions about the technological infrastructure and libraries

Section 3 will detail the internal workings of our application itself including both the backend and the frontend. 3.1 will contain a use case report for our application, laying out all the functional requirements for our application. 3.2 will contain implementation details for all the features of our application including the front end for each type of user and the backend data management, as well as communication protocols between the front and back end.

2. Overall Description

This section will serve to

- A backend for our application will be needed. It will consist of the following
    - Data for Managers
        - Inventory accounts of different ingredients
        - A list of customers & regular users
        - A list of cooks that he employs
        - Warnings for delivery people
        - Access to ratings of employees and dishes
        - A list of suppliers for different ingredients along with their pay
        - Transaction history for supplies bought

        - Offers for different ingredients
    - Data for salespeople
        - Transaction history
        - Ratings and reviews
        - Food items/ Inventory
    - Data for Cooks
        - Menu/prices list
        - Pending orders
        - Reviews for each item
    - Data for Delivery people
        - Their own ratings/ reviews
        - Delivery History
        - Incomplete deliveries
        - Delivery Area
    - Data for Customers
        - Favorite Dishes/ Frequently Ordered Dishes (User Logins Only)
        - Their own rating/ review
        - Their saved payment methods
- A frontend for each user:
    - GUI for Manager
        - A web page for managing inventory
        - A web page for managing employees

        - A web page for managing transaction/finances
        - A web page for managing registered customers
    - GUI for Salespeople
        - Have access to manager inventory page
            - Dishes and ingredients for dishes (Ingredient usage which shows how much of a certain ingredient s/he has to order next time depending on usage)
            - Transaction history
            - Reviews
    - GUI for Cooks
        - A web page for updating menu items
        - A web page for pending orders
    - GUI for Delivery people
        - A web page for bidding
        - A web page for customized delivery area
        - A web page for deliver history, finances, and reviews
        - A web page for pending delivery
    - GUI for Customers
        - A web page with restaurants and their menus
        - Shopping cart with optional log in
        - Account settings (personal page)

- Transactions/order history/ reviews for restaurants and menu items (Login Only)
- Pending Order Status Update page

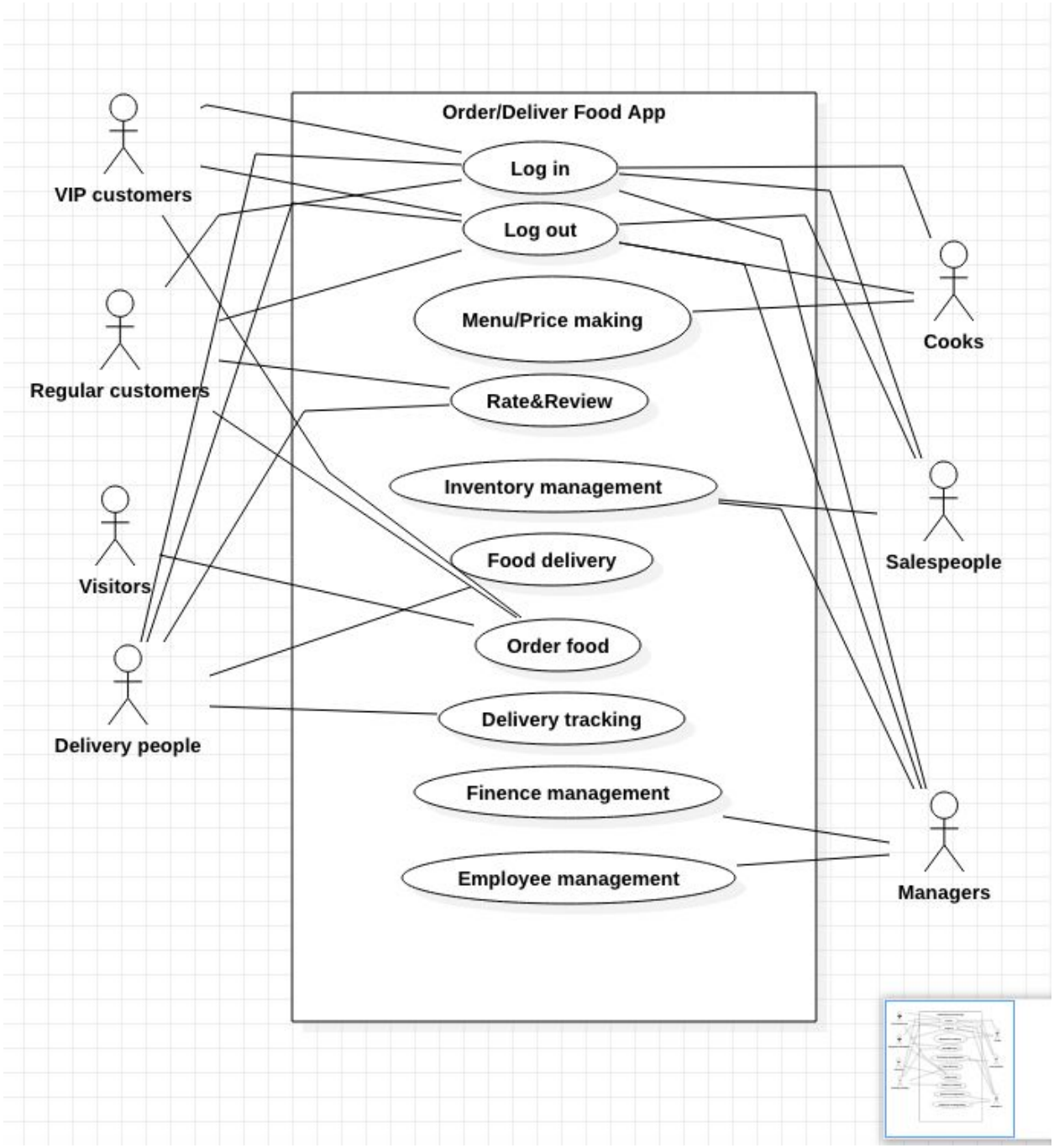
2.1 Use-Case Model Survey

Overview of the use-case model: Use-case model for this application will include privileged users, regular users and list of features to which users have or have not access.

*Privileged users:*managers, salespersons, cooks.

*Regular users:*delivery people, customers.

Features: log in, log out, menu/price making, rate and review, inventory management for restaurants, delivery food, order dishes, delivery tracking, management of finances, warning delivery people, employee management, pending orders access.



2.2 Assumptions and Dependencies

It is assumed that the users, including privileged users, will have access to the internet due to this software being web-based. Users and privileged users should be familiar with using an internet browser, and their own mouse and keyboard to navigate through the website.

3. Specific Requirements

The interface of the Order/Delivery food application will be developed as a website. The visitors and customers should have access to food menus and prices. The restaurant should lists three different most relevant food choices based on the order history of the registered customers and VIPs, and the top three most popular choices of the restaurant for visitors. The customer then chooses the food as s/he pleases. The interface should provide payment methods for the customers and visitors.

The order is then processed to the restaurants' systems and to the cooks for them to review and decide if they should accept the order. After order was placed and accepted, delivery people start bidding, so they should have interface for placing orders which needs to be developed. After getting their order to deliver, the interface should provide a road map for the delivery person and a delivery tracking option.

Once the delivery is made to the customer, the customer and the delivery person should both having a rating/review system of each other. The customers can rate the delivery person based on their performance in delivering their food, and the delivery person can rate the customer based on their demands and behaviors. The customers can afterwards review/rate the restaurant's food and post it to the public.

3.1 Use-Case Reports

All users, except the visitors, should be able to log in and log out of their accounts.

The menu/price management will only be accessible to the chefs/cooks.

Regular customers/ delivery people can rate and review each other and review past ratings.

Inventory management will be only accessible to the salespeople and the managers.

Food delivery will only be accessible to the delivery person, as s/he is the only person needed to respond to it.

Visitors, regular customers, and VIP customers will be able to order food from the site.

Delivery tracking will be granted to the delivery man to keep customers updated on their status.

Finance management and employee management will be accessible to the manager as they are the person managing their restaurant(s).

3.2 Supplementary Requirements

One of the supplementary requirements for this project is the account databases. We will be maintaining the users' and privileged users' account through a secure database. We will also separate privileged users from regular users to avoid any regular users from attempting to access a privileged user's info. In general, a requirement for the proper function of our application is that the data will never be in an invalid state. Great care will be taken to ensure that this is the case.