American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science &Technology (FST)

Spring 20_21

CSC 2210 Object Oriented Analysis and Design (OOAD)

Section: G

Group No: 6

Online Food Delivery Management System

An Object-Oriented Analysis and Design (OOAD) project submitted

By

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The project will be Evaluated for the following Course Outcomes

CO3: Formulate a baseline document to perform feasibility study of a proposed project idea		Total Marks
Project Background Analysis	[5Marks]	
Project Feasibility Study	[5Marks]	
Project Content Knowledge (e.g., diagram scenario narration)	[5Marks]	
CO4: Design a Complex engineering problem using UML Tools and explain the system using a project report and presentation		Total Marks
Completeness, Correctness, and Diagram Standard Tools	[5Marks]	
Report Organization	[5Marks]	
Presentation Delivery	[5Marks]	

CHAPTER 1: PROBLEM DOMAIN

1.1 Project Background Analysis

Given the present condition of the world, with the facing of an unparalleled challenge to the public health, food systems and worldwide economy due to the imposing threat of COVID-19, even the most common day to day tasks has turned out to be challenging. Although schools and work have continued on online platforms, there are still some activities that people are restricted from, such as going out to eat at a restaurant. Because of the pandemic, this has resulted in a number of problems including unemployment, loss of business and stirred up trouble for those who depended on restaurants for their meals. An online food delivery system will provide a solution to this problem. However, the problem with already existing systems is that they are not constantly updated. Customers often have to cancel orders due to unavailability of items. This system is designed to bring a solution to this challenge.

1.2 Project Solution and Feasibility Analysis

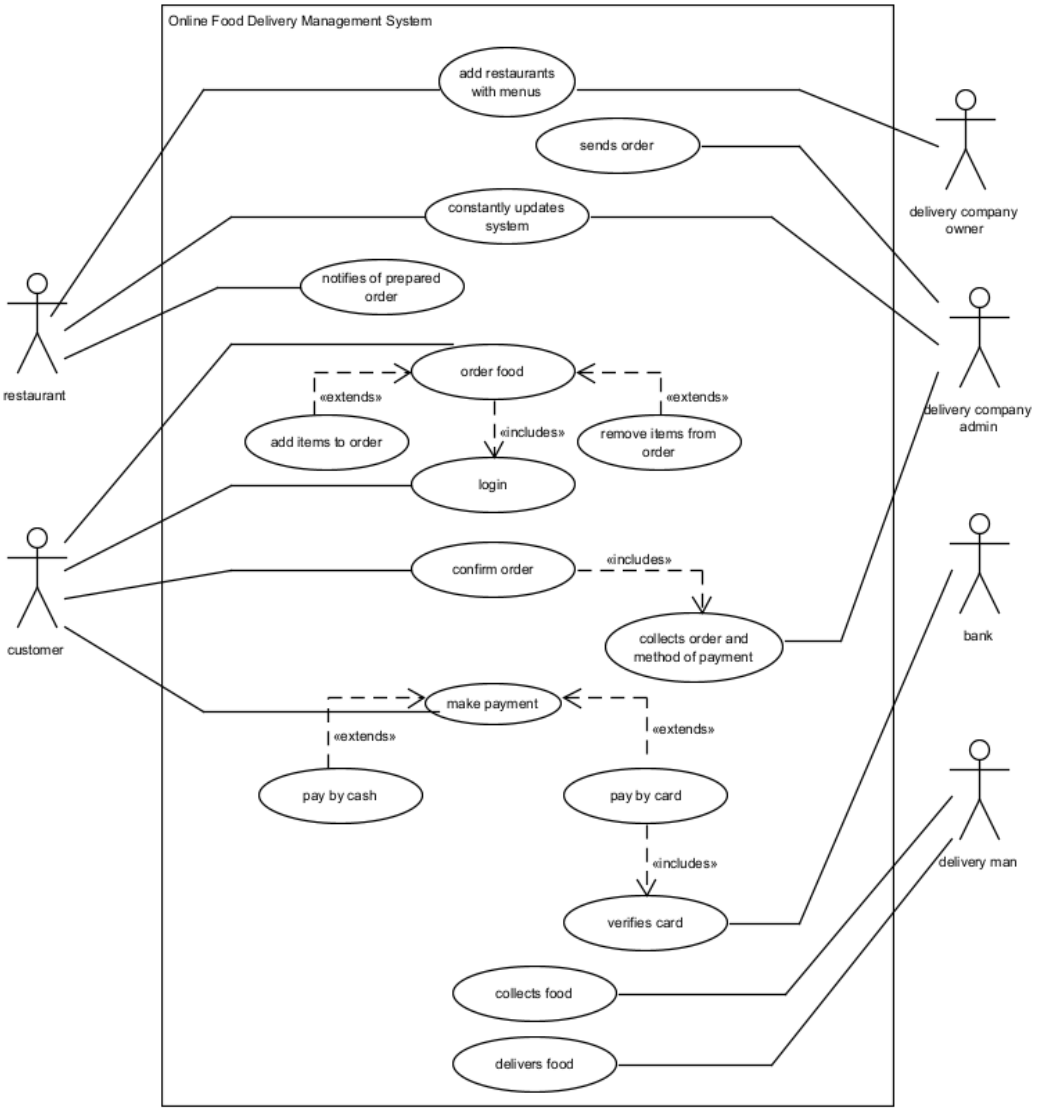
An online food delivery management system is designed to create solutions to the above problems. This will efficiently bring back customers to the restaurants, only difference is that this will be conducted through an online platform. The objective if for restaurant owners and employees to carry out their jobs, delivery companies to deliver restaurant quality food to people all while maintaining social distancing protocols. Furthermore, what makes this system more efficient than existing software is that this system will be constantly updated by the restaurants and delivery company employees so as to avoid unnecessary inconveniences.

CHAPTER 2: UML DIAGRAM

2.1 Use Case Diagram

Case Narrative

In an online food delivery system, delivery company owners will add restaurants and their menus to the system with the help and agreement of restaurants. Customers can order food from selected restaurants but before this they have to login with their name and contact number. While ordering, customers can add or remove items from their order. Once the order is placed, the customer has to confirm the order. The delivery company admin will collect the address and method of payment. They will then send the order to the restaurant. Customers can pay bills by using either card or cash. If using a card, the bank will first verify the card number. Restaurants will notify the admin of the prepared food. The delivery man collects the food and delivers it to the requested address. To improve the system and avoid inconveniences, restaurants and admins work together to constantly update the system of unavailability of any items.



2.2 Class Diagram

Case Narrative

A company owner can contact one or more restaurants and hire one or more employees. Deliveryman and admin are the employees hired by owner. A restaurant has food and a customer can place one or more orders. Orders contain food and consists of payments. Payments can be done by cash or card.