An online food ordering system accepts orders from customers and delivers at customer’s address. Items are selected from a menu and the total bill amount is calculated. Selected items may be put in a cart and addition, deletion of items in the cart is possible. Once the order is confirmed, the time taken for delivery is intimated and the order can be tracked. There are

several payment modes, cash/wallet/bank transfer/credit/debit card on delivery or pre-paid. Orders placed may be cancelled if delivery time exceeds 10% of specified time.

The system developed will have the following features:-

1) Authentication:-

a) Signup : Any new user will fill up the form and a database entry will be made in the user data base.

b) Login : If an existing user wants to order, he logs in using the email ID and password that will be matched with the database and then access will be given to the user to proceed further.

2) Order:-

a) View: The user can see the restaurants of his city, the menus of the corresponding restaurants with checkboxes and quantity and the estimated time for delivery. The estimated time will be calculated

b) Cart: The items selected will be shown in the cart. The user can add or delete the items, discard the entire order or checkout and proceed further.

c) Wishlist (additional feature): sometimes we crave for some food at an unusual hour. In the wishlist we can add those items and order them later.

3) Payment:-

a) Calculate Bill: The bill calculation will consider the following parameters:-

i) base bill= Σ item price\*quantity

ii) the base bill must be above Rs.100 ie minimum order value.

iii) the delivery charges will be applied based on the distance between user and restaurant address.

iv) The user will have two promo codes:- SAVE50 and SAVE20 and each can be used only once.

b) Payment Mode:-

The payment can be done through online mode only for surety and safety purposes. It can be using UPI like google pay/bhim etc or netbanking or debit or credit card.

4) Tracking:-

● After the payment, the user can track the time. This module extracts the estimated time calculated and if the

current time exceeds the estimated time by 10%, the user will have the option to cancel the order.

● If the user receives the order in time or does not cancel the order even after time exceeds and receives it, he can rate the app and food.

Requirements:

* It is **mandatory** to design the code using OOP concepts. You need to clearly mark the various sections in the code using comments where you have implemented these concepts - (Inheritance, Polymorphism, Encapsulation, etc). Please note that it will be considered while evaluating your submission.
* The database connectivity with the application is a must. The restaurants and their corresponding menus must be displayed. The authentication process also requires a database.
* The application can be a command line, no GUI is required.
* Additional features can be added to the application.

**WARNING**: There will be plagiarism checks for every submission made, specifically for this project. Please ensure you do not take the codes from someone else.