

Final

(Groups with 4 members)

Part 1: Online Food Platform, CPPFoodDelivery

At least 4 Design Patterns(Must state design patterns used in implementation and why you selected)

Create an online food delivery platform that connects **Customers**, **Restaurants** and **Drivers** to facilitate the ordering and delivery of food from Restaurants to Customers delivered by Drivers. Additionally, your system will include time. Meaning restaurants will only fulfill orders during operating hours. Additionally, drivers will only work at a given shift and deliver items in their chosen county.

All 3 must register with your online food Platform called **CPPFoodDelivery**. Additionally, in your main driver you will create 4 restaurants, 8 drivers and 10 customers showing the interactions of registration with the platform, customer ordering and driver delivery.

Driver Time shifts

1st shift: 8AM - 4PM

2nd shift: 4PM - 12AM

3rd shift: 12AM - 8AM

Southern California County

LA County

Orange County

San Bernardino County

Restaurants

Name

Address

County

Operating Hours

Cuisine type-mexican,thai..etc

Menu:

3 optional meal toppings(hw5)

4 meals:

Meals will include fats, carbs, protein
that will be altered for customer food
restriction.

Customers

name

address

county

dietary restrictions(hw4)

Driver

name

address

operating county

Orders should include: restaurant, customer, dietary restriction, list of food items[including modifications based on customers dietary restrictions and any optional toppings selected], driver, order creation time(Customer), order pick up time(Driver picks up order) and delivered time(Driver drops off order to Customer).

Part 2: OOA and OOD for Netflix competitor, CPPMovies

Follow the steps for OOA and OOD to create a movie/tv streaming service like Netflix, Hulu, Disney+... etc, called CPPMovies.

NOTE: This will not be implemented in code!

You are doing the analysis and design phase only.

You are free to communicate outside your group but, this section will be graded comparatively to other submissions.