**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 Southern California County**

1st shift: 8AM - 4PM LA County

2nd shift: 4PM - 12AM Orange County

3rd shift: 12AM - 8AM San Bernardino County

**Restaurants** **Customers** **Driver**

Name name name

Address address address

County county operating county

Operating Hours dietary restrictions(hw4)

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.

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.