**Homework 2**

**CPP MAPS**

(OOA and OOD)

**Part 1 – Use Case(OOA)**

You will create an application similar to **Google Maps** called **CPP Maps**. As this is a large application you will first create Use Cases to help create a more modular application. You have selected the following 5:

1. **Navigation** – Get directions from a starting location to a destination location.
2. **Search** – Search for a place by name such as Nordstrom, Disneyland…etc
3. **Explore** – Search for a place by category such as Restaurant, Gym, University…etc
4. **Share Location** – Send location to a friend or family using messaging app on phone.
5. **Share Rideshare** – Send location to rideshare app such as Uber or Lyft.

**Part 2 – (OOA)**

1. Highlight all the nouns to determine possible potential classes.
2. Highlight all the verbs and verb phrases to determine possible methods and relationships.
3. Create a rough graph showing how all the classes are connected.

**Part 3** **– (OOD)** NOTE: *Use word editor such as MS word/Apple Pages*

1. Create CRC cards of the classes you have selected from the potential list above.

Use the following template for your CRC

|  |  |
| --- | --- |
| Class Name | |
| Responsibilities | Collaborators |

1. Create a final graph connecting all the Class names with their Collaborators.