1. **Personal information**

Reservation system, Hanjemma Jeong, 791623, Digital systems and design, 01.03.2021.

2. **General description and difficulty level**

The reservation system for restaurants. The system asks customers' information to edit a status of reservations. There will be commands to reserve or cancel/edit. Customers can check details about their reservation info like how many people, reserved time and table locations,etc. You can also check all reservations.

It will be at an "easy" level.

3. **Use case description and draft of the user interface**

The program uses command line prints, formatting. All datas is saved and delivered from file,

4. **Program's structure plan**

The program will have classes for the main components – restaurant, table location, customer, etc, every datas is persisted on a file.

Changes (editing customer information, changing the location) will be made to the file.

There will be one restaurant, the main class, and this restaurant has x number of customers and tables. The restaurant has a customer id list. After a reservation time, this field is edited as a table is available or not.

5. **Data structures**

Both customers and tables will be lists inside the restaurant. Restaurant, customers and tables will also be classes.

6. **Files and file formats**

The main data file that info is saved, the entire restaurant object is included. Because the amount of data is small and the program does not require data connection, using python formats will be enough.

7. **Algorithms**

The algorithm will do ID comparison in cases when the user input should be matched to existing objects.

8. **Testing plan**

The program will be tested by using the same input values sets to test the program without having to put input values every time.

9. **Libraries and other tools**

Basic libraries.

10. **Schedule**

8 hours per week- for 4 weeks

11. **Literature references and links**

I can check other restaurants' reservation systems.

12. **Attachments**