**Cleaning Service**

*Create a Service:* Takes in the name of user, hourly rate, weekdays that the service is on and the time of day the service is available and writes that into a csv file.

*Booking a Service:* To be able to book a service you first need to see all available services so we also have getServices method that returns all services and the nest 4 available month days. After the user sees the services and available month days he/she can pick a service on specific day and time and call orderService method with those information and in the csv file comes a new line with the name of the user that created the service, name of the user that is booking the service, hourly rate of the service, the weekday and the time of the service and the month day of the service.

*Create a User:* We take the username, password and confirm password from the user and write it into the user csv file but not the confirm password that is only for validation. We decided to not allow users to have the same username but we allow same password for users.

*Login User:* Method takes in username and password then checks if the user is in the csv file. If he is then log him/her inn and set the user variable to equal the username. If the username and password are not in the csv file we return the error “Username/Password not Found. ”.

*Optional Methods:* None.

**Rent a Book**

*Create a Book:* Here the method gets necessary information to add a book. It gets the user\_id, name of the book, book authors, book genres, publishing date, edition of the book, and condition and stores it in bookdata.json.

*Renting a Book:* To be able to rent a book you first need to see all available books so we also have get\_all\_books that gets all available books. When the user has selected a book we call the get\_book\_info method that returns detailed information about the book. And finally when the user wants to rent it the system calls both create\_rental and make\_book\_unavailable so the book is shown to be rented and it it’s status is marked as unavailable.

*Create a User:* Calls add\_user with "name", "email", "username", "password" and stores that data in the system. (password is not used)

*Login User:* Takes in user id form the user, checks if the user is in the system, creates a session id and returns it. The system uses that session id to authenticate the user.

*Optional Methods:* Many optional methods. Most noticeable are the message methods.