Distributed Systems

Assignment 1 Uber-Like Application

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How to run:

1.Server:

Open UberServer.java and run

```
9%
                                                                                                                                                                                                                                                                                                   ClientHandler
                                                                 import java.util.*;
                    10 ClientHandler.class
80
                    ClientInfo
                                                               public class UberServer ( ± Rawan Tarak +1
public static List<ClientInfo> customers = Collections.synchronizedList(new ArrayList<>()); 4 usages
public static List<ClientInfo> drivers = Collections.synchronizedList(new ArrayList<>()); 6 usages
public static List<Ride> rides = Collections.synchronizedList(new ArrayList<>()); 13 usages
public static Map<String, DataOutputStream> driverOutputs = Collections.synchronizedMap(new HashMap<>()); 5 usages
public static Map<String, Boleam> driverAvailability = Collections.synchronizedMap(new HashMap<>()); 7 usages
                    10 ClientInfo.class
                    Customer_Features
                    10 Customer_Features.clar
                    10 Driver features.class
                                                                       public static Map<String, DataOutputStream> customerOutputs = Collections.synchronizedMap(new HashMap<>()); Susages public static Map<String, Offer> pendingCustomerOffers = Collections.synchronizedMap(new HashMap<>()); Susages
                    10 Main.class
                    © Offer
                                                                       public static int rideIdCounter = 1; lusage
                    10 Ride.class
                    10 UberClient.class
                                                                       10 UberServer, class
                                                                              customerOutputs.put(username.out):
                @.gitignore
0
                                                                             return id:
>_
         > file External Libraries
          Scratches and Consoles
                                                                       public static synchronized int addDriver(String address, String username, String password, DataDutputStream out) {    lusage # Rawan Tarek +
(!)
```

2.Client:

Open UberClient.java and run multiple configurations

```
import java.io.DataInputStream
       ∨ □ Uber-Like-System [Uber-like
                                                                                                                                                                                                                                    @
                                                     import java.io.DataOutputStream
          > 🗀 .idea
99
                                                    import java.io.IOException;
import java.net.Socket;
                                                                                                                                                                                                                                    C Admin_features
                10 Admin_features.class
                                                         public static void main(String[] args) { # Rawan Tarek +
                © ClientHandler
                10 ClientHandler.class
                                                                   Socket socket = new Socket( host: "127.0.0.1", port: 6660);
                                                                   DataDutputStream output = new DataDutputStream(socket.getOutputStream());
DataInputStream input = new DataInputStream(socket.getInputStream());
Scanner scanner = new Scanner(System.in);
                ClientInfo
                10 ClientInfo.class
                Customer_Features
                10 Customer_Features.clas
                                                                   System.out.println(input.readUTF());
                © Driver_features
                                                                   String action = scanner.nextLine();
output.writeUTF(action);
                10 Driver_features.class
                ( Main
                                                                   System.out.print(input.readUTF());
String username = "";
                10 Main.class
                Offer
                                                                   while(true) {
                10 Offer.class
                                                                       username = scanner.nextLine();
                                                                       if(username.isEmpty()||username.length()<4) {
    System.out.println("Empty username or user
                10 rating.class
                10 Ride,class
                10 UberClient.class
(D)
                @ UberServer
                10 UberServer.class
>_
              System.out.print(input.readUTF());
             Uber-like system.iml
Git Log Console ×
                                                                                                                                                                                             4-24 86 CRIE LITE-8 4 spaces
                                                                                               🔗 🖿 🔮 📜 👩
```