

## CS102 – Algorithms and Programming II

Fall 2014-2015

## Grading Criteria for Submitted Project Reports

Detailed Design Report

1. Format: (20 Points) 18
  - a. Does it use the provided template? (5 Points) 5
  - b. Is the template correctly filled? (i.e. report date, group members, group name, project title etc.) (5 Points) 5
  - c. Report organization (margins, unnecessary empty spaces, etc.) (10 Points) 8
    - i. Minus 2 points for each error. Don't cut more than once for the same error.
2. Grammar: (10 Points) 10
  - a. Is the report grammatically correct? (verbs, tenses, punctuation etc.) (10 Points)
    - i. Minus 2 points for each error. Don't cut more than once for the same error.
3. Completeness: (15 Points) 15
  - a. To what degree the data requirements and operations are identified?
    - a. Poor (5 Points)
      - i. Provided classes, attributes and methods are not sufficient enough to realize the project.
    - b. Mediocre (10 Points)
      - i. Fair amount of classes, attributes and methods are provided and they can be used to implement some portion of the project.
    - c. Good (15 Points)
      - i. A good amount of classes, attributes and methods are provided. They can be used to implement a major portion of the project.
4. General Quality: (20 Points) 15
  - a. Extensibility & Modularity (10 Points) 5

Does the design follow the MVC (Model-View-Controller) Pattern?
  - b. Class Responsibilities (10 Points) 10

Do the classes have single and well defined responsibilities each?
5. Unified Modeling Language (UML) (25 Points) 25
  - a. Does the group provide a UML class diagram (0 Points if not and ignore the rest of the bullets in this section)
  - b. Are all classes (except the UI classes) included in the class diagram? (5 Points) 5
  - c. Are the classes properly defined? Do they follow the UML notation? (10 Points) 10
    - i. Minus 2 points for each error. Don't cut more than once for the same error.

- d. Are the relations (inheritance, aggregation, dependency, generalization, e.t.c.) properly defined? Do they follow the UML notation?(10 Points) 10
  - ii. Minus 2 points for each error. Don't cut more than once for the same error.

6. Conclusion: (10 Points) 10

- a. The group provides a list showing which classes (including the UI classes) each group member will be responsible for implementing. (5 Points) 5
- b. The group discusses the concerns regarding the detailed design of their project. (5 Points) 5

**CS102****FALL 2017/2018**

Instructor:

**Erman Ayday**

Assistant:

**Serkan Demirci**Project  
Group**7****~ Biluber ~****TC.CS(S)****Cavid Gayıblı – Selim Can Gülsever – Tofiq Aliyev****– Celal Bayraktar – Subhan Ibrahimli**

Criteria	TA/Grader	Instructor
Presentation		
Overall		

## **Detailed-design Report**

**6 December 2017**

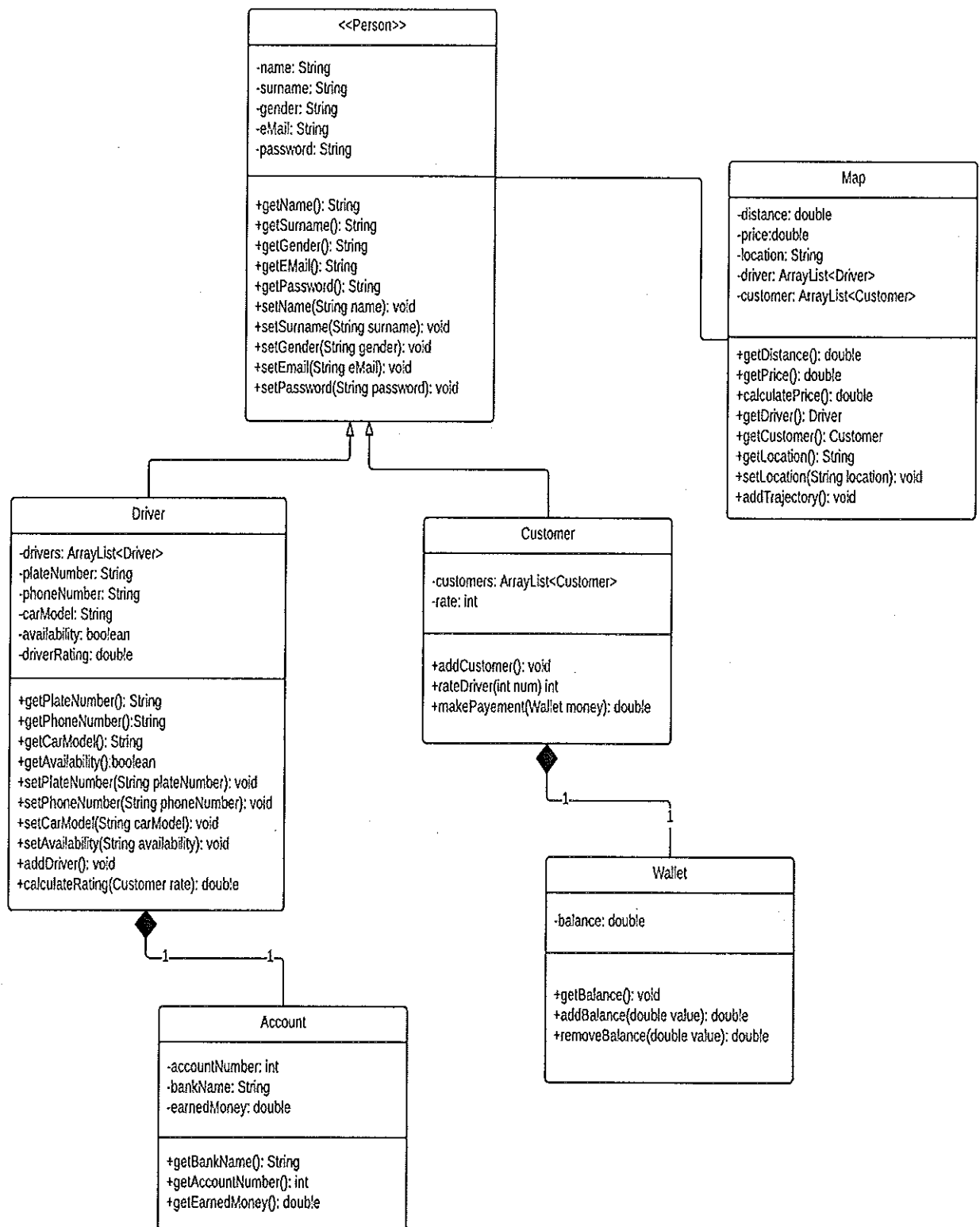
### **1. Introduction**

In the detailed design report of Biluber program we follow pattern of MVC which was very helpful during implementation of model stage. We used Eclipse ide in order to write codes of this stage, moreover in the uml diagram we followed tips from the report example and also we included java methods and variables in the part 2.1. As it is noticed in the past reports, we are going to use android studio and make phone application which interacts drivers and customers by using map the place. All the information about driver and customer, moreover history of using program services will be stored in Google Firebase. It is easy to use and has friendly interface dataBase tool.



## 2. Details

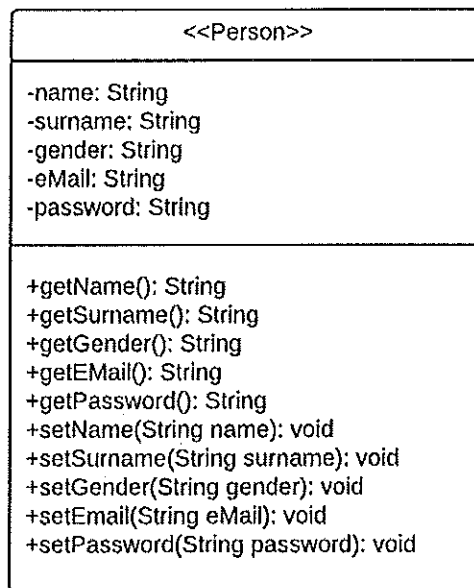
### 2.1 Uml diagram



This is the uml diagram of classes. As it is noticed we follow MVC (Model-View-Controller) pattern and this diagram shows model part of this pattern. Diagram shows class names, methods and variables which they are include and polymorphic relation between classes. In the next parts we included all the necessary information about of each class and their function.

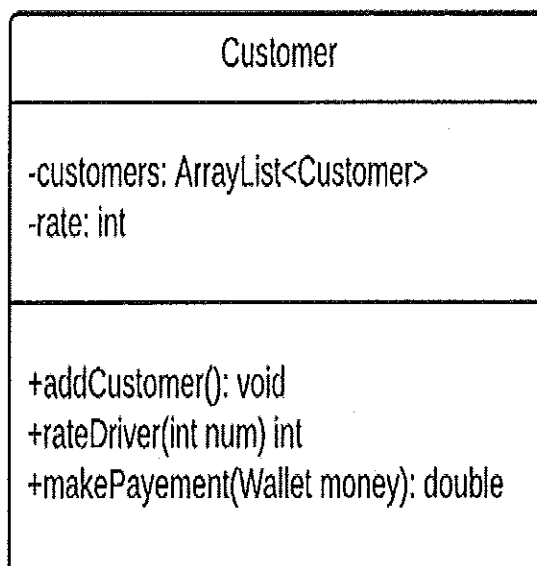


### 2.1.1 <<Person>>



Person will be abstract class and parent of the classes Customer (see 2.1.2) and Driver (see 2.1.3). Name, Surname, Gender, Email and Password are variables and used to store basic information of user, these variables will be private and Person class has get methods for them. Also it there is set methods for these variables.

### 2.1.2 Customer



Customer is a child class of Person, it extends person. There is an arrayList customer in this class which will store customers in type of 'Customer'. Rate variables in this class will be provided by user-customer for the driver performance, it will be private and there is a get method for rate. rateDriver method calculates exact driver rating and returns average rating. makePayment method is used to make payment for driver, it uses instance from the class Wallet (see 2.1.4) and returns payment amount in type of double.