

Group 7

(94)

CS102 – Algorithms and Programming II

Fall 2014-2015

Grading Criteria for Submitted Project Reports

Requirements (Features) Specification Report

1. Format: (20 Points)
 - 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) 4
Note: Group id can be filled by the assistant for the first report (Requirements Specification).
 - c. Report organization (margins, unnecessary empty spaces, etc.) (10 Points) 10
-Minus 2 points for each error. (But don't cut points for the repetition of the same error)
2. Grammar: (10 Points)
 - a. Is the report grammatically correct? (verbs, tenses, punctuation etc.) (10 Points) 8
3. References: (10 Points)
 - a. Are the external resources properly cited in text? (5 Points) 4
 - b. Is the citing format proper? (i.e. does it follow the MLA or any other standard guidelines?) (5 Points) 5
4. Introduction: (5 Points)
 - a. Introduction section which gives a brief description of the project (5 Points) 5
5. Preliminary Research: (10 Points)
 - a. Does the group discuss the works that are similar to their project? (5 Points) 5
 - b. What features do the similar projects have? (5 Points) 5

Note: This part can be in the conclusion section.
6. Features Specification: (30 Points)
 - a. Are the features sound in general? (5 Points) 5
 - b. To what degree the features specify the project? (25 Points) 25
 - a. Poor (few features that poorly specify the system) (5 Points)
 - b. Mediocre (limited number of somewhat simple features) (15 Points)
 - c. Good (specifying most of the requirements) (20 Points)
 - (d) Excellent (with detailed features specifying most of the requirements) (25 Points)

7. Conclusion (15 Points)

- a. Who will benefit from the project, who are the targetted users? (5 Points) 5
- b. What advantages, benefits would the proposed system provide? (5 Points) 5
- c. How does it compare with (or improve over) the existing works? (5 Points) 5

CS102**Fall
Spring 2017-2018**

Instructor:

Erman Ayday

Assistant:

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

Criteria	TA/Grader	Instructor
Presentation		
Overall		

Requirements Specification Report**20 October 2017****1. Introduction**

“Biluber” is an android application which aims to connect drivers and passengers with each other. This application is similar to Uber taxi ordering system in some cases. In Uber, passengers can order a car in order to travel whenever they want and they can choose a specific vehicle to travel (Paul Gil, 2017). Biluber will give passenger opportunity to find proper driver in order to travel between Bilkent and another place. User can order a driver to travel between Bilkent and another place. Also, user can pay money with cash or online by using opportunities of the program like credit card payment or wallet method. At first, Biluber will be available just for students and their common use; further improvements will include other citizens.

2. Features**2.1.1 Map**

This application will use Google Maps to get location information. So, what are these information. With using this feature, passenger can see driver's location, with same way, driver also can see the passenger's location. This feature can be used to create a route and this route's distance will use for calculate price (Explained in 1.1.6 in details). Probably, users can see the other nearby users (if user is a driver, will see passengers; if user is a passenger, will see drivers.)

2.1.2 Registration

"Biluber" program will be with registration option. Here, the user will create own account in order to use in the program. Registration will be welcome screen of the program and without it access to the program will be impossible. User must provide Name, Surname, Email, Password, Gender and also must choose if he/she is a driver or passenger, after it some further questions will be given if driver option will be chosen. Driver must provide car model and number.

2.1.3 Profile

It will be simple page in order to get information about user, passengers will be able to see drivers' rating, car model and commentaries about drivers here. The will be no edition place in this screen, all the edition must be done in the registration page, but driver can change car model if it needs. Information about the user will be stored in the FireBase.

2.1.4 Payment System

To make sure that the driver and the passenger are pleased for payment; the payment will be done after calculations by fuel consumption and approximate route. Users can use credit or debit cards to add funds on the wallet to pay the payment to their drivers.

2.1.5 The Wallet

User will have a currency account such as a bank account which will be saving money in it. To add funds to wallet, probably google payment system will be used. When the price calculations of the route is done, the payment to the driver will be withdrawn from the wallet.

2.1.6 Calculation of Price

There will be a fixed calculation of price for travelling in order to compensate fuel consumption. First of all, map will calculate the distance between the routes. If the route is less than 10 kilometers, then price will be 2 Turkish Liras for each kilometer. If the route is more than 10 kilometers, after 10 kilometers, price for each kilometer will be 1.5 Turkish Liras. Finally, if the route is more than 20 kilometers, price for each kilometer will be 1 Turkish Lira. For example, if a person travels 22.2 kilometers, price will be 20 Liras (for the first 10 Km) + 15 Liras (between 10-20 Km) + 2.2 Liras (after 20 Km).

2.1.7 Location Information

Because of the application will be limited in only Bilkent University, the passenger has to go to Bilkent University or leave from Bilkent University. For example if passenger wants to go to Bahçelievler from Bilkent, passenger must choose "to" part as Bahçelievler and "from" part as Bilkent on user interface.

2.1.8 Firebase

In our "Biluber" program we will use possibilities of Google FireBase. It gives opportunities to create boxes and tables in order to use in our program. Moreover, FireBase interface is easy to handle and base itself is user-friendly to use. We will register accounts into the base and get information from it.

2.1.9 Driver Rating

"Driver ratings" will be used in order to evaluate driver's performance. Every time the one who ordered a Biluber ride, will be able to give his/her driver a rating from one to five stars. This feature gives an opportunity to users for choosing proper drivers to have successful travel to the destination.

2.2 Preliminary Research

Uber is an American multinational online car service providing company via mobile app, web or text messages which has an indispensable influence in the taxi industry all over the world. This service initially became available in major cities in the US, including San Francisco, Boston, New York and Washington, some European capitals and a few cities in Asia. And nowadays, it has spread even wider to the different part of the world (Uber Taxi Service, 2016). We mind-stormed and used some features from Uber but differences between Biluber and Uber will be given in the conclusion part.

3. Summary & Conclusions

Biluber is a program which allows finding a driver for travelling between Bilkent and another place. At first this program will be available for only Bilkent students; they can order a driver and easily go somewhere else by not wasting much time. This program refers to drivers and passengers who are university students or members. Drivers can make some money by registering to this program and passengers can find safe transport to travel. In comparison with other programs Biluber's travelling target is from Bilkent to another place, in Uber passenger can order a car in what place they want, Biluber is totally safe, drivers and passengers are university students, also drivers are licensed people from university and from police department, this is the other difference between Uber and Biluber. According to Julie Bawden-Davis some Uber drivers are not qualified for this job also their background is unknown (Julie Bawden-Davis, 2017). Biluber like Uber helps drivers to make money in their university years easily (Gil, 2017). Passenger can order a vehicle a few hours before the travelling and it saves them from wasting the time. Moreover, Biluber will be cheaper than other taxi services, because there will be no tax and other extra payments.

↳ You are contradicting by yourselves. In introduction you said ~~the~~ your app will be available for people who are not from Bilkent.

4. References

1. Bawden-Davis, J. (2017, June 23). 5 Reasons Uber Can Be A Risky Choice (For Drivers And Passengers). Retrieved October 19, 2017, from <https://www.supermoney.com/2016/05/5-reasons-uber-can-risky-choice-drivers-passengers/>
2. Gil, P. (n.d.). How Uber Works - A Helpful Primer on the Ride-Hailing Service. Retrieved October 19, 2017, from <https://www.lifewire.com/how-does-uber-work-3862752>
3. Uber Taxi service. (n.d.). Retrieved October 19, 2017, from <http://allfaq.xyz/uber-taxi-service/>

