Programming Assignment1 CSCI-729
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Application name – RUSH TO DOCTOR

Application description – This application has been designed keeping in mind the urgency to reach to a specific doctor at the time of need. This application integrates the services provided by the below APIs:

1. *Google Map API:* This API provides the geo-location (latitude and longitude) of an individual based on his/her zip code.
2. *BetterDoctor API:* This API returns the list of 10 doctors with details like name, visit address, phone number, geo-location and distance from user's current location, given the radius of search and of the type of specialist the user is looking for.
3. *Uber Fare Estimate API:* This API returns the estimate of fare along with the type of car that the user may take ride in to move from his/her location to the chosen doctor's location.

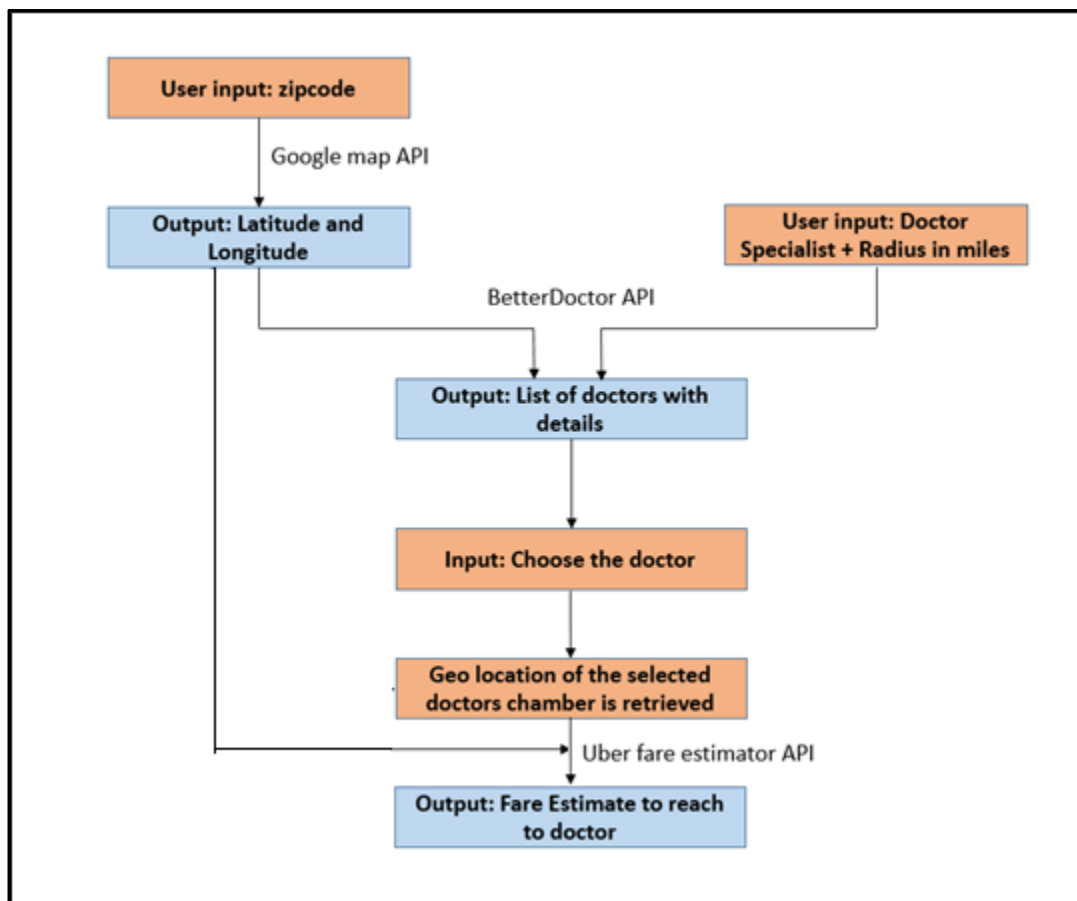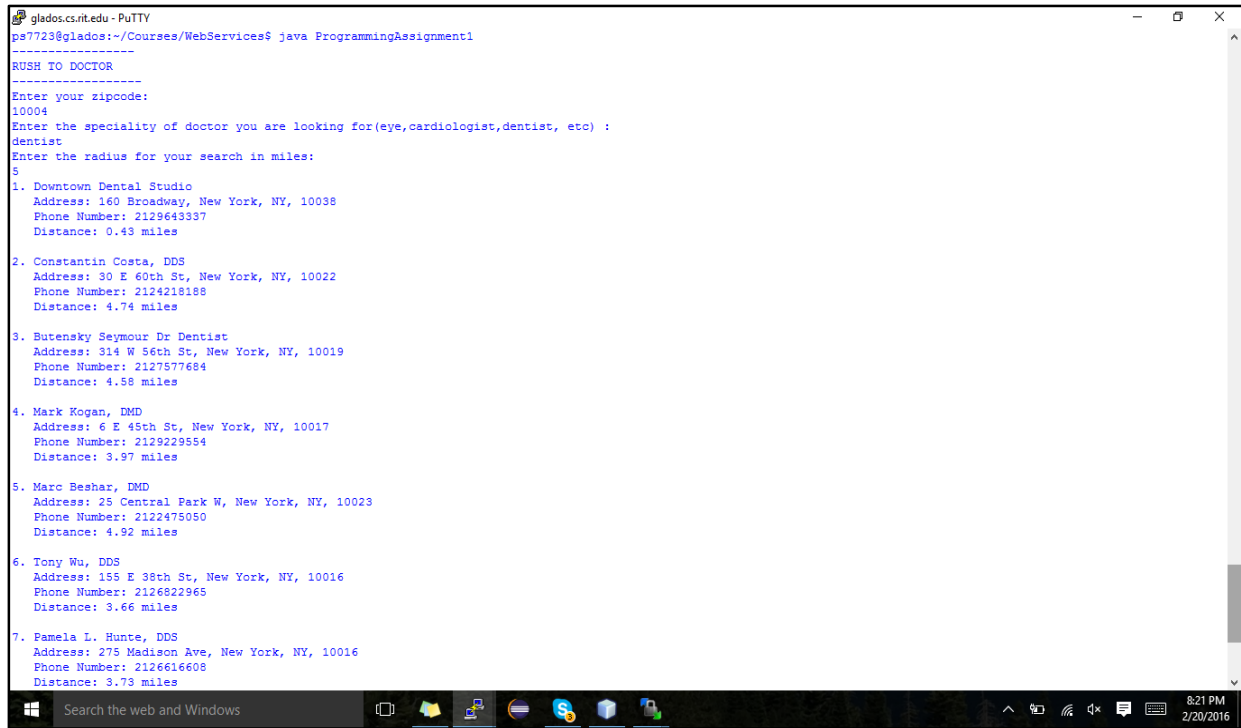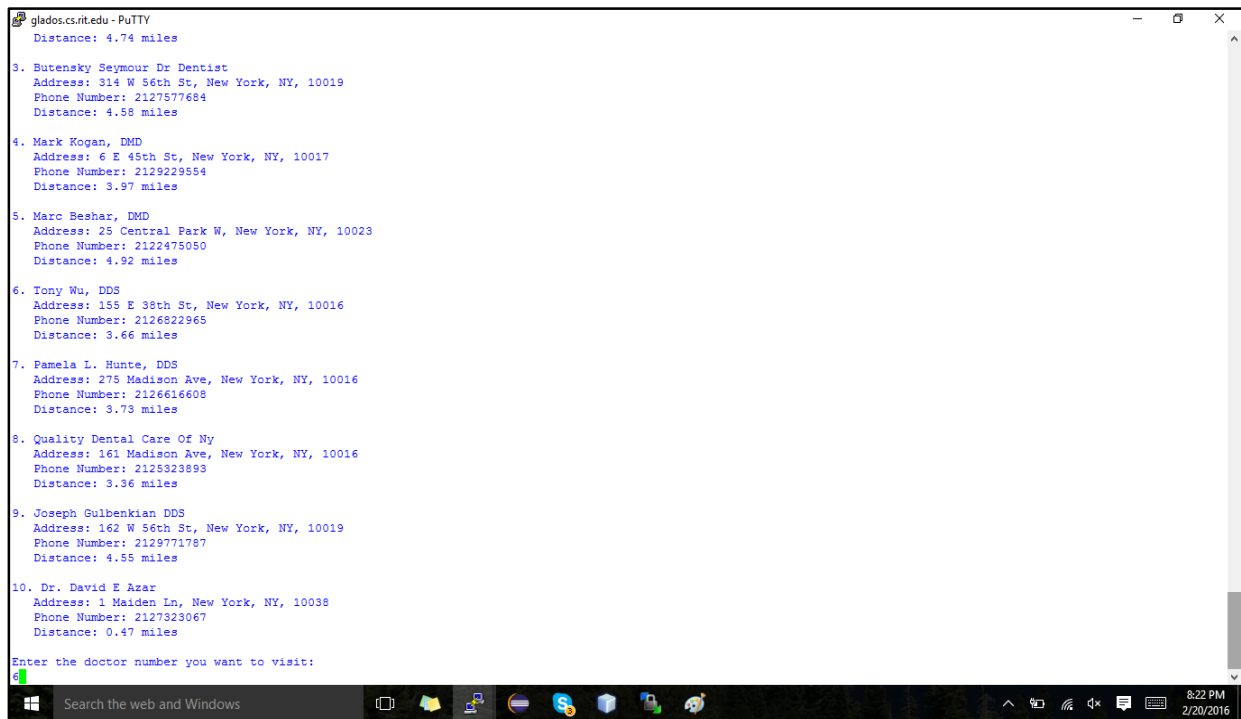**Design of the application** – The design of this application is depicted in the diagram below:

Fig 1: Design flow of the application

Screenshot of the application – Below are the screenshots of the application functioning:

Fig 2: Application at its launch. With the inputs given as zip code: 10004, specialist to look for: dentist and search radius in miles: 5. following it gives the lists of doctors matching the criteria

Fig 3: Entering the choice of doctor

```
    Phone Number: 2126616608
    Distance: 3.73 miles

8. Quality Dental Care Of Ny
    Address: 161 Madison Ave, New York, NY, 10016
    Phone Number: 2125323893
    Distance: 3.36 miles

9. Joseph Gulbenkian DDS
    Address: 162 W 56th St, New York, NY, 10019
    Phone Number: 2129771787
    Distance: 4.55 miles

10. Dr. David E Azar
    Address: 1 Maiden Ln, New York, NY, 10038
    Phone Number: 2127323067
    Distance: 0.47 miles

Enter the doctor number you want to visit:
6
Your fare estimate:
_____

uberX:away from you by 0hr 23mm 0ss
Estimated price:$18-25

uberXL:away from you by 0hr 23mm 0ss
Estimated price:$29-38

uberFAMILY:away from you by 0hr 23mm 0ss
Estimated price:$28-35

UberBLACK:away from you by 0hr 23mm 0ss
Estimated price:$40-52

UberSUV:away from you by 0hr 23mm 0ss
Estimated price:$54-68

Yellow WAV:away from you by 0hr 23mm 0ss
Estimated price:$0

uberT:away from you by 0hr 23mm 0ss
Estimated price:Metered
ps7723@glados:~/Courses/WebServices$
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Fig 4: The fare estimator from Uber API

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