

Programming Assignment1 CSCI-729

- Priyanka Samanta (ps7723)

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:

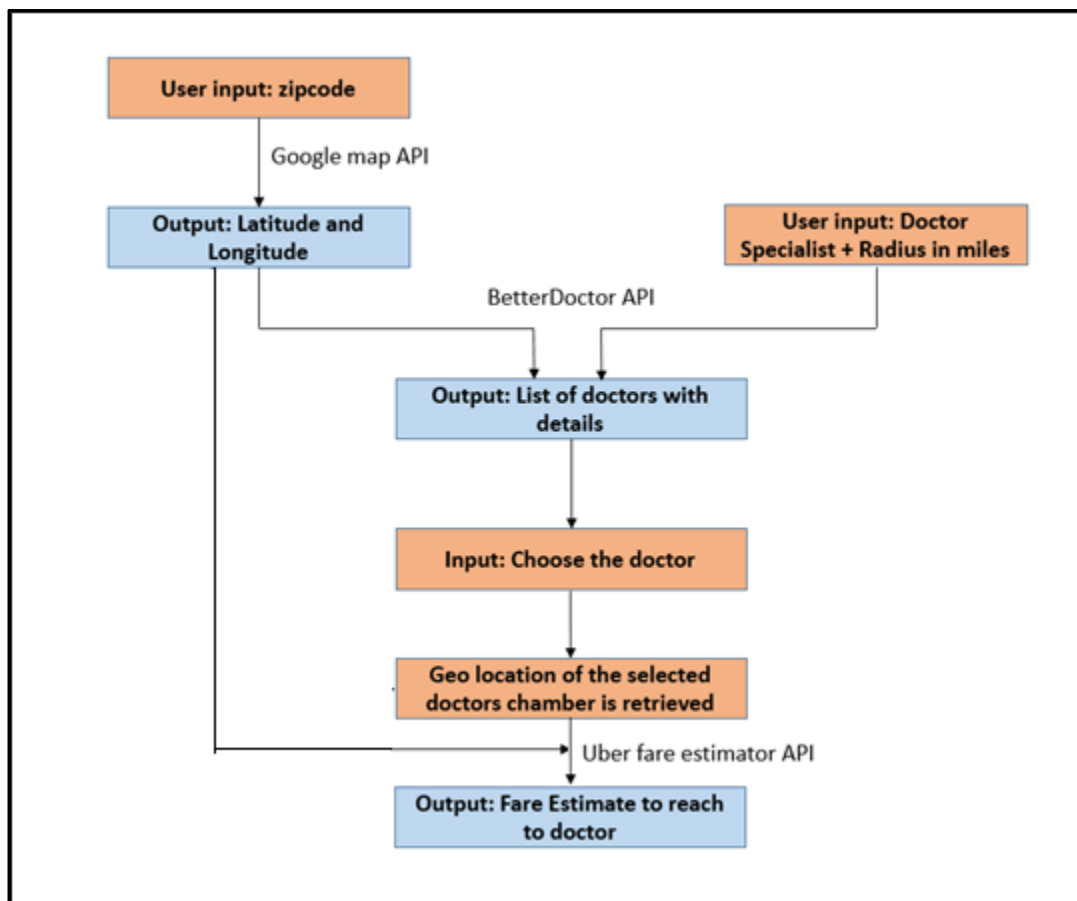
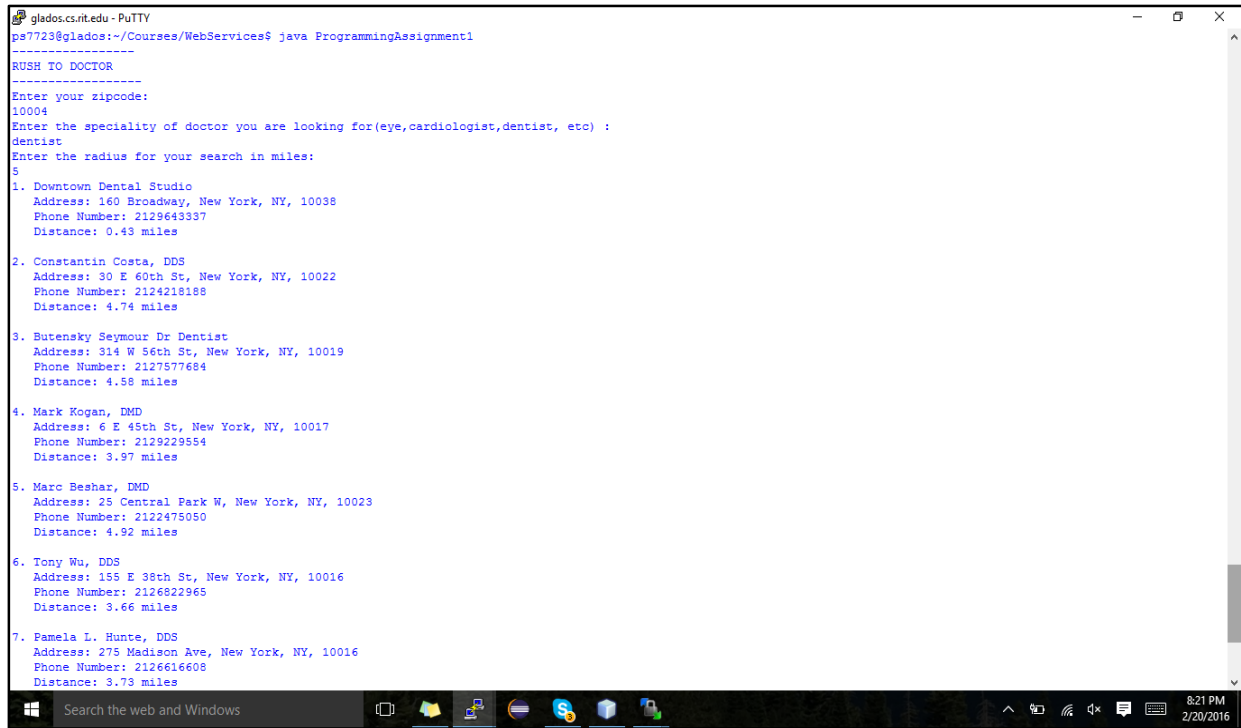


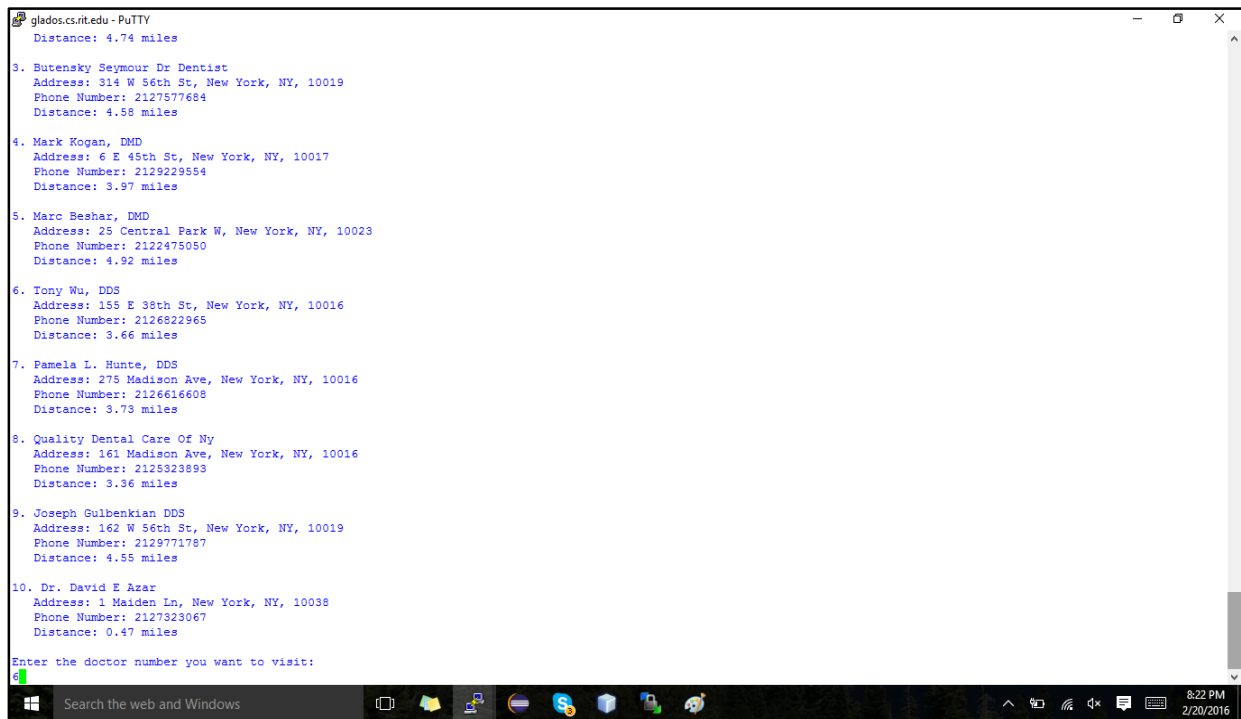
Fig 1: Design flow of the application

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



```
glados.cs.rit.edu - PuTTY
ps7723@glados:~/Courses/WebServices$ java ProgrammingAssignment1
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RUSH TO DOCTOR
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Enter your zipcode:
10004
Enter the speciality of doctor you are looking for(eye,cardiologist,dentist, etc) :
dentist
Enter the radius for your search in miles:
5
1. Downtown Dental Studio
   Address: 160 Broadway, New York, NY, 10038
   Phone Number: 2129643337
   Distance: 0.43 miles
2. Constantin Costa, DDS
   Address: 30 E 60th St, New York, NY, 10022
   Phone Number: 2124218188
   Distance: 4.74 miles
3. Butensky Seymour Dr Dentist
   Address: 314 W 56th St, New York, NY, 10019
   Phone Number: 2127577684
   Distance: 4.58 miles
4. Mark Kogan, DMD
   Address: 6 E 45th St, New York, NY, 10017
   Phone Number: 2129229554
   Distance: 3.97 miles
5. Marc Beshar, DMD
   Address: 25 Central Park W, New York, NY, 10023
   Phone Number: 2122475050
   Distance: 4.92 miles
6. Tony Wu, DDS
   Address: 155 E 38th St, New York, NY, 10016
   Phone Number: 2126822965
   Distance: 3.66 miles
7. Pamela L. Hunte, DDS
   Address: 275 Madison Ave, New York, NY, 10016
   Phone Number: 2126616608
   Distance: 3.73 miles
```

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



```
glados.cs.rit.edu - PuTTY
Distance: 4.74 miles
3. Butensky Seymour Dr Dentist
   Address: 314 W 56th St, New York, NY, 10019
   Phone Number: 2127577684
   Distance: 4.58 miles
4. Mark Kogan, DMD
   Address: 6 E 45th St, New York, NY, 10017
   Phone Number: 2129229554
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   Address: 25 Central Park W, New York, NY, 10023
   Phone Number: 2122475050
   Distance: 4.92 miles
6. Tony Wu, DDS
   Address: 155 E 38th St, New York, NY, 10016
   Phone Number: 2126822965
   Distance: 3.66 miles
7. Pamela L. Hunte, DDS
   Address: 275 Madison Ave, New York, NY, 10016
   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:
```

Fig 3: Entering the choice of doctor

```
glados.cs.nit.edu - PuTTY
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$
```

Fig 4: The fare estimator from Uber API

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