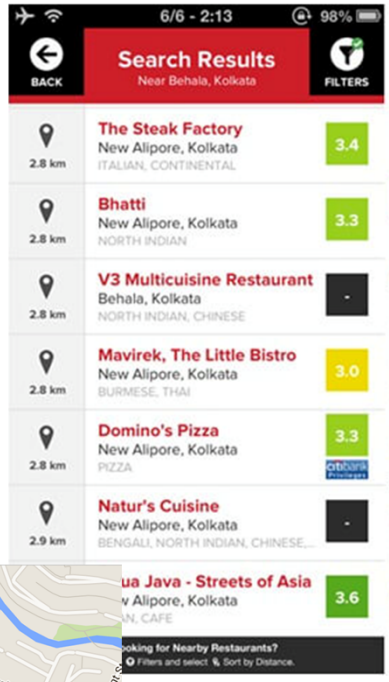
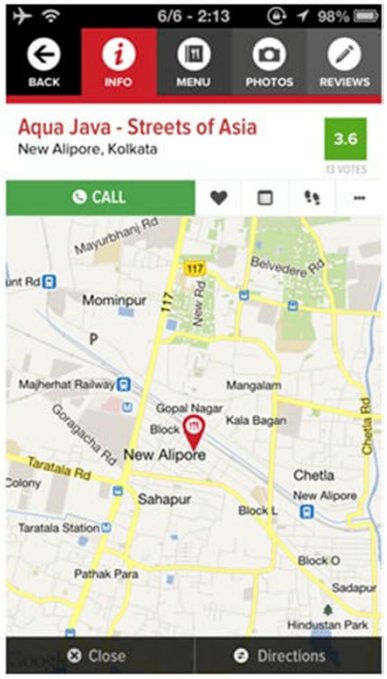
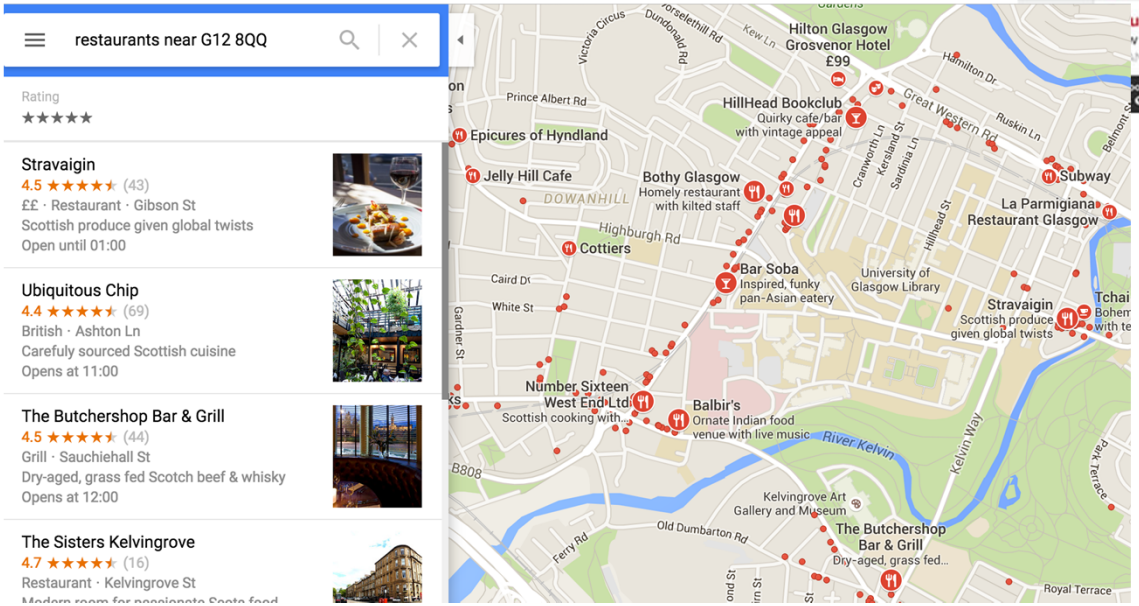
Assessed exercise 2

- *Glasgow City council would like to create a web site which makes it easier for both residents and tourists to find good quality and fairly priced restaurants and take-aways. They have organised a competition and the winner will be funded, and promoted by the city and tourist authorities. Your group represents a new software house which would be given a huge financial and publicity boost by building the system that convinces the decision makers that this would be the best restaurant finder.*
- Users should be able to visualise the options and browse for restaurants in a number of ways
  - AE2a (2%): interaction design for the system and evaluation of a paper prototype.
  - AE2b (10%): build the system (using JavaScript, HTML, CSS & D3)
  - Demo (3%)

Restaurant Finder







a) Interaction design & prototype

- Pick your target users and use cases.
  - Talk to potential users who are not on the course
  - Develop personas and scenarios as basis for design
  - Review existing restaurant search systems – what can you do differently, which ideas can you steal?
  - Can you learn from recommender systems in other areas (e.g. Music)?
- Develop Design concepts. Create paper prototypes to test them
  - Can be simple paper prototypes or using free online tools like www.balsamiq.com or www.moqups.com .
  - Think about how you will create an interactive visualisation of the restaurant options.
  - Think about the structure of the site, and the typical user flow through the site
  - Consider both one-off, new users, and repeat users who might have a profile and history with the site.
- Present your Group's proposal by the next Lab (6th November)
  - Present the design concept and work through the prototype. Remember that this should be a system which will impress the city
  - You will get feedback about the plan, and a chance to ask questions about anything you are uncertain about
- **Submit a report (5 pages max) describing your group's written Design concept, target user group, personas and scenarios and system requirements on Moodle by 5pm on Friday 13th November.**
  - **This will be used to judge the quality of your implemented system, and is 2% of the 15% for AX2**

b) Build a working system

- Data acquisition & enhancement
  - An enhanced data set to build the interaction around will be a deliverable
- Build a working system
  - The system should fulfill the requirements you identified at the start

Data

- Glasgow Council has a database of restaurants with names locations, addresses (but no details on type of food, or customer ratings)
  - https://data.glasgow.gov.uk/dataset/restaurants-cafes-and-canteens-in-glasgow
- Other companies have accessible APIs. Use these to provide data which can enhance the city dataset.
  - https://github.com/justeat/JustEat.RecruitmentTest
  - https://www.yelp.co.uk/developers/documentation/v2/search_api
  - https://developer.foursquare.com/docs/venues/search
  - https://developers.google.com/places/web-service/search

Testing and Evaluation

- Use evaluation techniques presented in the lectures
  - Analytic, Empirical & Qualitative feedback
- Think about how your evaluation can help you convince the city that your system is the best for the job
- Use non CS users to test the system
  - Log behaviour and qualitative feedback.

Report

- The Report (15 pages max)
  - should summarise:
    - Your design requirements (including how it stems from your paper prototype),
    - a description of the submitted version of your system (and how it matches your requirements),
    - and a description of your analytic findings (and how you derived them).
    - should make an argument to the city about why this system is best for the job.
  - Include a one page description that introduces your system to a new user (i.e. to the marker), to help him/her run your code and try out analysis.
  - Report should make clear which parts of AX2 were done by which person— the requirements, system, analysis and write-up.
    - Also note which features (such as code libraries you imported) were developed by people outside the group.

System Demo

- Demos will be arranged for the last sessions of IS(H) on 4th December.
- The group should present the final concept and demonstrate a working system.
  - A video presenting the final system should be submitted before the demonstration
    - This does not have to be perfectly produced. Can be filmed with a mobile phone!
- We will test the functionality of the system