COMP6235 Group Coursework – Individual Feedback Form

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| **Module:** | *Foundations of Data Science* | **Lecturers:** | *ES, CP, RT, MB* |
| **Assignment:** | *Group Project* | **Weight:** | *70%* |
| **Student Name** | Gerard Tio Nogueras | **Student ID:** | 28994329 |

1)Please summarise your group project (100-200 words):

Our group project consists of assessing the new sugar tax policy. To do so we aimed to assess the relevancy of the tax, the targeted demographic and the targeted product.

**Data collection**

Find data about soft drinks consumption in the UK, find obesity and diabetes data in the UK and also soft drinks prices. In the end, we restricted it to Consumption and Obesity because of the poor quality of the other datasets or irrelevance.

**Cleaning**

Keeping only the valuable information from the datasets found and converting to a common format (csv)

**Processing**

Setting up a web server with Nginx on the University servers (which ended up being more complicated than expected).

Uploading the cleaned datasets to mongoDB with a python script and create different collections for each different dataset.

**Analytics**

Trying to find correlations with the data that we collected and using linear regression for a better representation of our variables. All this with R.

**Development**

Creating our final product. We used the python web framework Flask (easier then Django), bootstrap and to improve the aspect of the design we used an improved bootstrap build called Material Design.

**Visualisation**

We mainly used Chartist.js for our simple charts and show the difference between the data trends thanks to the dynamic interaction implemented in chartist. And we used Leaflet to represent the regional data.

This allowed us to give unexpected conclusions on the policy.

2) What were the main challenges of the project and how did you and your group overcome them? (100-200 words)

**Datasets**

When trying to find a project, we tried to find the project before finding datasets, for example, population movements. We quickly realised that we had to go the other way around, have some small ideas on what the project might be but define the project in function of the datasets available to us.

**Communication in the team**

To be able to discuss the project we had to find a way to communicate effectively and to do so we used the application Slack who allowed a tracking of our github commits and General work discussions.

**Meetings**

Since we have very different timetables, arranging meetings was pretty complicated. To do so we used Doodle to find time slots that fitted all the members.

**Progression**

How were we able to track our progress and be effective at each meeting? We took notes for each meeting and pushed them to the repository so everyone knew what to prepare for next meeting and also to see our progression.

**Skill**

Since everyone has a different background, we needed a way to distribute our work in function of the skills of the members. To do so we created a skill chart from the beginning available in the main Readme of our repository to dispatch the different tasks.

3) Please reflect on your contribution to the project: (100-200 words)

I have participated in all the brainstorm sessions, worked mainly on the research side of the project, worked a little bit on the front end and on the presentation.

After the first research round to start our project we realised after a meeting with our supervisor that our datasets were too poor. Then I started the second round of research but on another level. I would read a lot of research papers, try to find the datasets used in those papers, search globally for similar data around the world for similar demographics and try to improve by any means our data. The most frustrating part being to find the data but belonging to a private company making it for huge sums of money. Another complicated part was to write manually data when the data available was only scanned from old books. But I took it upon myself to provide my analytics team with more data to improve our results.

4) Please reflect on the contribution of your team members. How well did you work as group? (100-200 words)

I felt that we had a good core of members and everyone had good basics to start working right away. Like in any group the investment of the members is never equal but we tried to be really fair regarding this aspect in our group form. Ahmet did an amazing job with the front end of the application and Lingga did an amazing job with the backend and the analytics. We worked well as a group with simply different implications in the amount of work.

Everyone came to the meetings and we didn’t have any big confrontations in the team.

5) On the scale of 1 -5, please indicate how you felt the group performed (1 low, 5 high)?

1 2 3 **4** 5