D10 Dashboard Project

D10 group members

Derek Hoodless, John Paul Docherty, Jonathan Parker, Paddy Hudson, Prathiba Ratnasabesan.

Roles & responsibilities of each member

**Derek** worked on Data Cleaning…

**John Paul** worked on Data Cleaning, Documentation…

**Jonathan** worked on Wireframing …

**Paddy** worked on Wireframing, …

**Prathiba** worked on Requirements, Data Cleaning

**Everyone** worked on Planning, Data Selection,

Brief description of dashboard topic

Our dashboard contains an overview of Scottish public health over the past 5-10 years through the lens of life expectancy., long term conditions, self-reported health, or quality of life).

We then took a closer look at the subjects of Drug Use among young people, & Mental Wellbeing across all age groups.

We looked at these topics from 3 perspectives:

* **Temporal**: How has this issue changed over time?
  + Is it getting better or worse?
* **Geographic**: How does this issue differ between areas in Scotland?
  + Where should efforts be focussed?
* **Demographic**: Who is most affected by this issue?
  + Who should be targeted with efforts?

Stages of the project

* Project Planning
* Choosing datasets
* Data Selection & cleaning
* Design & Dashboard wireframing
* Git branching & version control
* Data Analysis
* Dashboard Build
* Integration of Analysis & Dashboard
* Testing
* Delivery / Presentation

and so on …

Which tools were used in the project?

* Zoom (daily stand-ups and occasional mob programming)
* Trello (planning & task allocation)
* Git/GitHub (collaboration & version control)
* Slack for informal communication
* MS Office packages

How did you gather and synthesise requirements for the project?

We synthesised the information given in the brief by …

We prioritised …

Motivations for using the data you have chosen

We used the dataset on … to answer … and because it was …

Data quality and potential bias, including a summary of data cleaning and transformations

According to the About tab on the dataset page/dedicated page online, the data quality is set to a 95% confidence interval, which account for the varying designs of constituent surveys. Confidence intervals provide a measure of the accuracy of point estimates.

The dataset may not be biased because it comes from an innovative project drawing together multiple household surveys to provide a large sample for subnational analysis.

To clean the datasets we …

How is the data on statistics.gov.scot stored and structured?

The data on statistics.gov.scot is in the form of Linked Data.

This means that the structure of the database is contained within the data.

Benefits of storing the data like this are there is no need for complex database schema.

Ethical and legal considerations of the data

There are no ethical considerations because the data is depersonalised, publicly available data from the Scottish Government

The datasets are covered by the Open Government License v3.0, which means we are able to use the Information that is available under this licence freely & flexibly, with only a few conditions. Further details can be found at [Open Government Licence (nationalarchives.gov.uk)](http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/)