# **Summary**

A local Scottish charity wants a web-based information system to encourage the general public of Scotland to take interest in policy and the current government of the country. The proposed information system is to provide statistics about a given region via entering a postcode as well as providing details about their elected MSP for that region.

# **Research**

**API**

Pre-existing API that seem appropriate to use for this project are already provided by most government systems in the UK such as by Gov.uk, Labour Market Information for all and the Scottish parliament where an application can make a HTTP get request to a server a receive a response containing the relevant information in JSON formatting.

Methods of utilizing this API are not consistent between other government websites but for the example of Gov.uk all get requests begin with “https://www.gov.uk/api/content” (1) and end with the remainder of the pathing to your desired source of information.

**Tools and Libraries**

Alternative tools for data retrieval exist such as Curl.

Curl is an open source code library widely used in scripts for data or file retrieval from a server using URLs.

# **Aims**

* Allow user to enter postcode to view a given region.
* Allow user to view details about the current elect MSP of a selected region.
* Allow user to view count of the population employed in differing occupation for selected regions of the country.
* Allow user to view rate of pay for selected occupations and ratio of change in salary.

# **Target Market**

This information system is most likely to be used by Scottish citizens who hear of the Scottish charity coming from varying political interest and political leanings. Mainly for those curious about the MSP elected for a select region or their locally elected MSP or may just desire easy access to statistics for select regions around Scotland and the UK at large.

# **User stories**

User Story 1: Phil the railway worker wants to find details about his local MSP to view their contact details.

User story 2: Dhana the social care worker wants to find estimated salary of other social workers in her local area to view the estimated salary for her job category.

User story 3: Trevor the student want to get a count of the population working in the Animal Care in south Lanarkshire to view the count of Animal care workers for that region.

User story 4: Joel the teacher wants to find the MSP of a specific region in the UK to view details of that MSP

# **Functional**

* User should be able to enter a postcode to find the said region.
* User should be able to view the current elect MSP along with contact details.
* User should be able to make queries showing the ratio of the population working specific occupations.
* User should be able to make queries showing rate of pay for said selected occupation.
* User should be able to view change in salary of select occupation.

# **Non functional**

* Dynamic styling
* Mobile friendly interface

# **References**

1. <https://content-api.publishing.service.gov.uk/reference.html#base-url>

# **Bibliography**

<https://data.parliament.scot/#/home>

<https://www.lmiforall.org.uk/>

<https://content-api.publishing.service.gov.uk/reference.html#gov-uk-content-api-v1-0-0>

<https://www.getpostman.com/>

<https://curl.haxx.se/>