# **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**

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 and receive a response containing the relevant information in JSON formatting.

Other forms of API that could be utilized for data retrieval would be Postman which is an API made to simplify the process of creating any type of request and managing the data received.

Another API would be CURL which is an open source code library primarily used in scripts and command lines to handle the transfer of data.

A similar website that mirrors the request for an information system would be the Scottish parliaments MSP finder tool which uses a map API breaking down each region of Scotland into coloured sections allowing the user to select a region and return a further breakdown showing each constituency’s area of influence in that region. Selecting a constituency displays the current MSP.

# **Aims**

For now, the charity requests only the following to be implemented as more of the site will be built on in the future.

* 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 occupations 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 elect MSP or may just desire easy access to statistics for a select region.

# **User stories**

User Story 1: Phil the railway worker wants to input his postcode to view his local MSP’s contact details.

User story 2: Dhana the social care worker wants to input her postcode to view the estimated salary for her job category.

User story 3: Trevor the student wants to select the region of south Lanarkshire to get a count of the population working in the Animal Care.

User story 4: Joel the teacher wants to select a region to view their current elect MSP.

# **Functional**

* User should be able to enter a postcode to find the select 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 occupations.
* User should be able to view change in salary of select occupation.

# **Non functional**

* Dynamic styling
* Mobile friendly interface

# **Bibliography**

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