

Criterion B: Design

Mock up designs

Page 1

https://www.cityfinder/filter/0.ca

City Finder

Group 1

[City](#), [City](#), [City](#), [City](#), [City](#)

Group 2

[City](#), [City](#), [City](#), [City](#), [City](#), [City](#), [City](#), [City](#), [City](#), [City](#)

Group 3

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Group 4

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Rankings

☐ Setting 1

☐ Setting 2

☒ Setting 3

☐ Setting 4

Lowest

100

Highest

100

Submit

Cancel

Ranking Criteria item

Filters

Filter item

Filter item

Filter item

[illegible]

Structure of the Population and Coordinates database

PopulationAndCords.csv
+ city (city name): Text
+ city_ascii (city name in ascii): Text
+ lat (latitude): Text
+ lng (longitude): Text
+ country (country name): Text
+ iso2 (iso2 code): Text
+ iso3 (iso3 code): Text
+ admin_name (romanization of cities local name): Text
+ capital (if the city is the capital): Text
+ population: Text
+ id: Text

Structure of the Climate database

climate.csv
+ Region: Text
+ Country: Text
+ State: Text
+ City: Text
+ Month: Int
+ Day: Int
+ Year: Int
+ AvgTemperature: Float

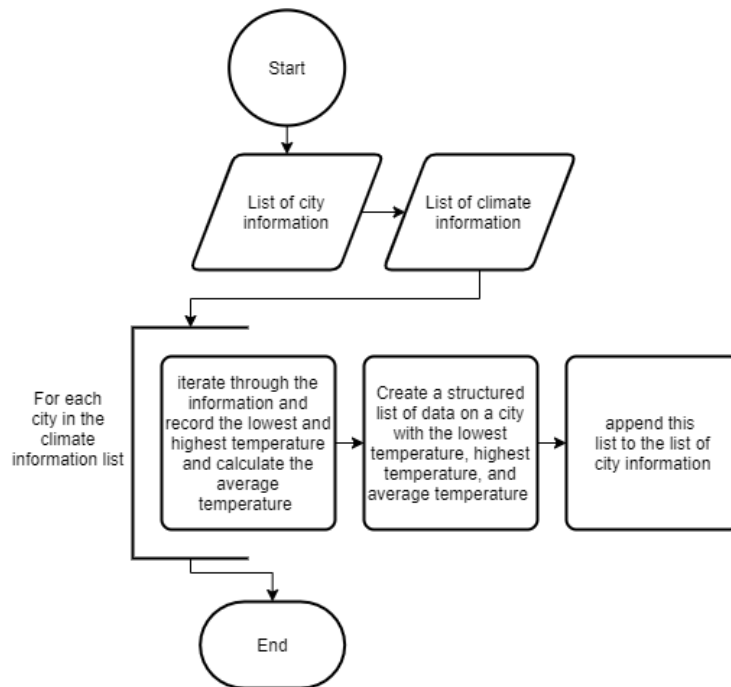
Structure of the university ranking database

CityUniversityRanking.csv
+ city_country: Text
+ university name: Text

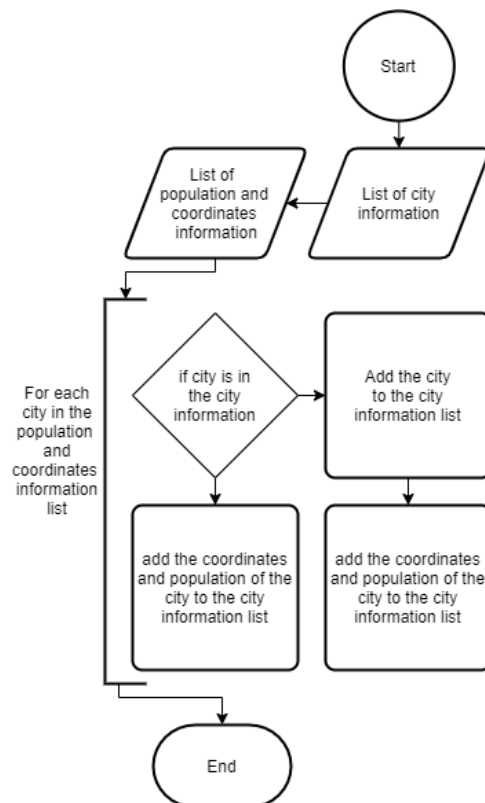
Structure of the fully city information database

fullyCityInfo.csv
+ CITY: Text
+ PROVINCE/STATE: Text
+ COUNTRY: Text
+ LOW TEMP: Text
+ HIGH TEMP: Text
+ AVERAGE TEMP: Text
+ LATITUDE: Text
+ LONGITUDE: Text
+ POPULATION: Text
+ UNIVERSITY RANKING: Text
+ CODE: Text

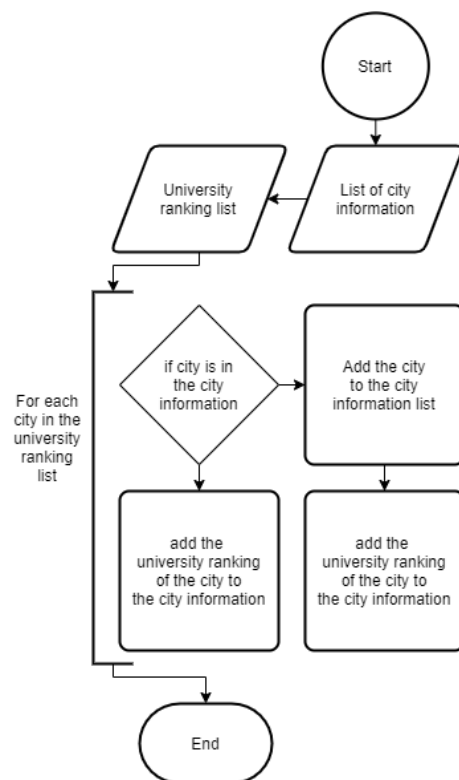
Add information from the climate database into the full city database



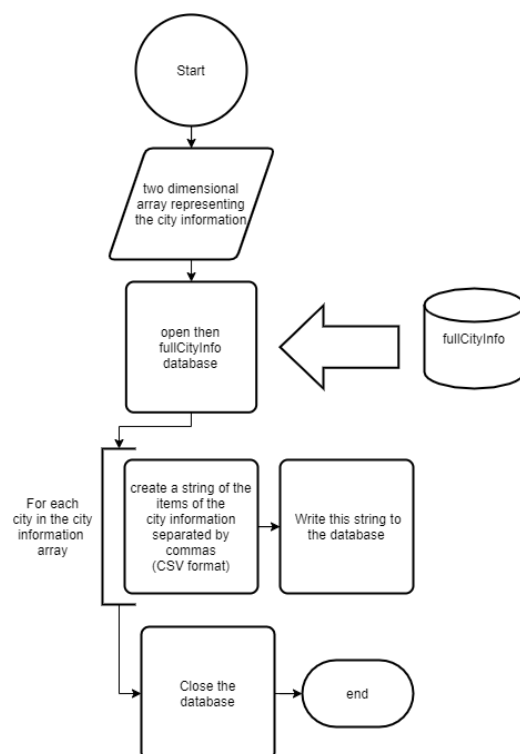
Add information from the population and coordinates database into the full city database



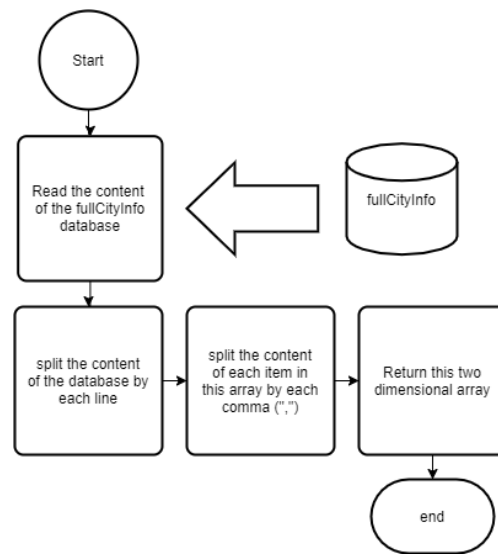
Add information from the university ranking database into the full city database



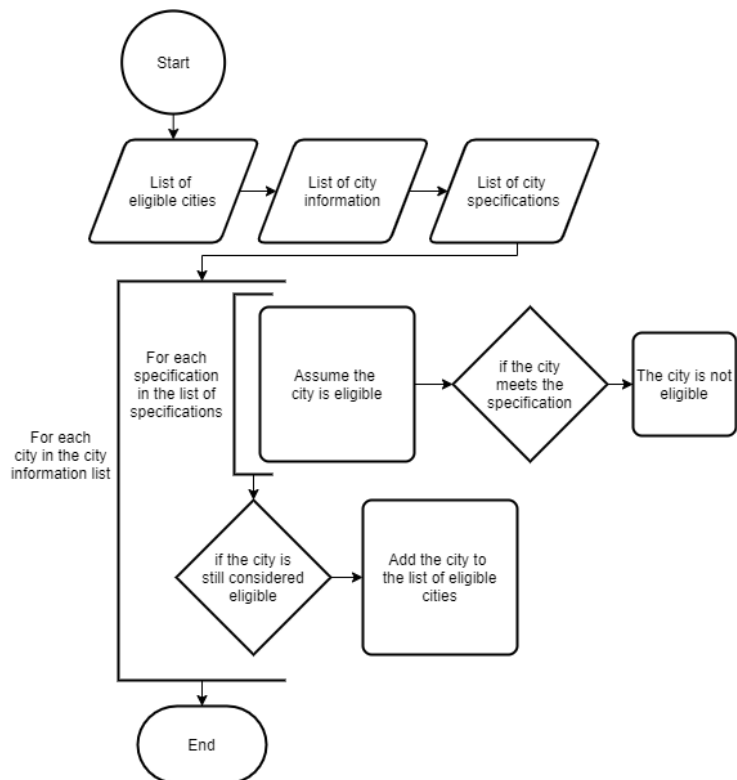
Save a two dimensional array of city information as a CSV file



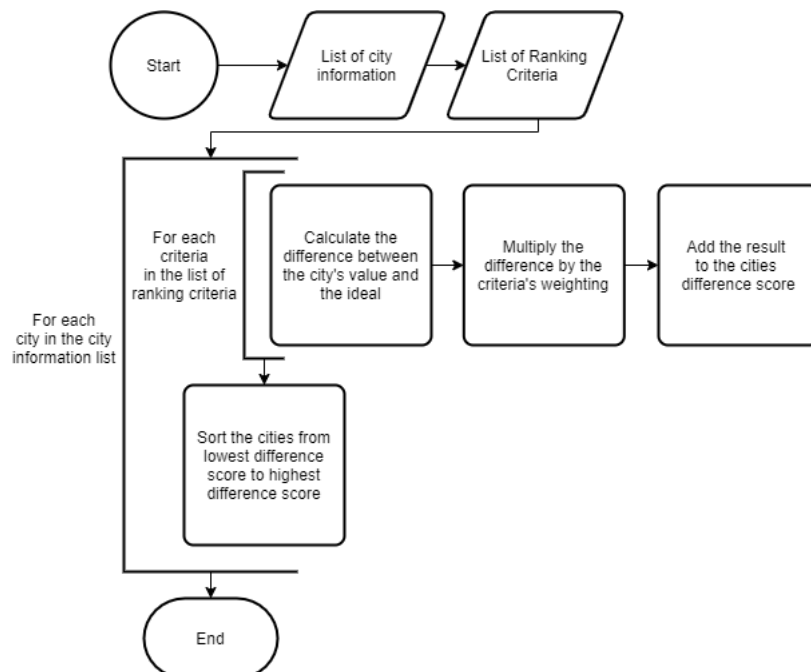
Transfer the information of the Full City Information database into a two dimensional array



Filter out ineligible cities



Rank Cities



Action to be Tested	Test Method
The website loads correctly	Open the website multiple times to ensure it consistently loads correctly.
Adding filters/ranking criteria works (Success Criteria viii)	<p>Make the python program print the list of filters/ranking criteria to the console for debugging.</p> <p>Click on the “Add filters” button or “Add ranking criteria” button and check if the submission form opens.</p> <p>If the submission form displays, then fill it out and click the “Submit” button.</p> <p>Check the list in the python console and see if it aligns with what was entered into the forum.</p>
Removing filters/ranking criteria works (Success Criteria ii)	<p>Make the python program print the list of filters or ranking criteria to the console for debugging.</p> <p>Add a filter or ranking criteria</p> <p>Click on the “Delete” button of the filter.</p> <p>See if the filter or ranking criteria disappears from the website, then check the python console to see if the filter or ranking criteria was properly removed.</p>
The city information database is created and correctly sources data (Success Criteria iv, v, vi)	<p>Check the project folder for the city information database.</p> <p>To check if information is sourced correctly, read through a few lines to make sure they match the correct location and information that they should.</p> <p>Write code to check if all rows in the database have a consistent amount of cells.</p> <p>Randomly check cities from a range of countries and populations and fact check the information to make sure the program is sourcing the data correctly.</p>

<p>When a city is clicked the user is brought to an information page on it</p> <p>(Success Criteria iii)</p>	<p>Click on many cities and make sure the browse always opens an information page of the city</p>
<p>The paragraph on the city in the city information page is accurate.</p> <p>(Success Criteria ix)</p>	<p>Generate a paragraph of many different cities and check that the paragraph is accurate and makes sense.</p>
<p>The website filters the cities properly</p> <p>(Success Criteria x)</p>	<p>add a filter to the list of filters and run the function that returns the list of eligible cities. Write another program to review the eligible cities to check if each city really does meet the filter. Run this multiple times with multiple different filters.</p>
<p>The website ranks the cities properly.</p> <p>(Success Criteria vii)</p>	<p>add a ranking criteria and run the function that returns the ranked order of the cities. Write another program to review these ranks. Run this multiple times with multiple different criteria.</p>