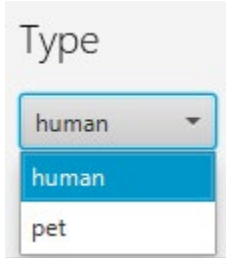Points to cover
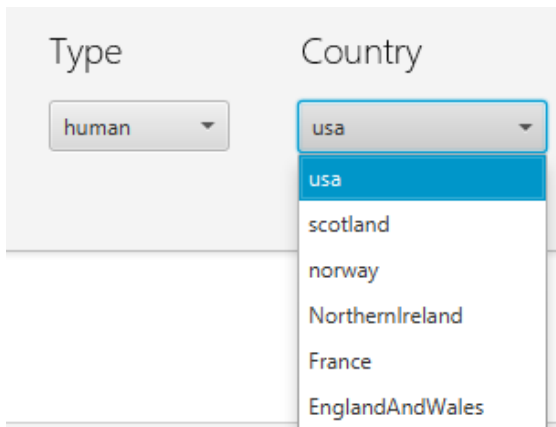
Task 3

- Optimization was performed on task 3 to improve runtime
- You can select the type of dataset you want to access: human/ pet
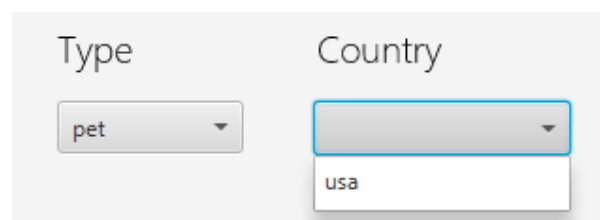

-
- The country list varies depending on the type of dataset you've selected
-
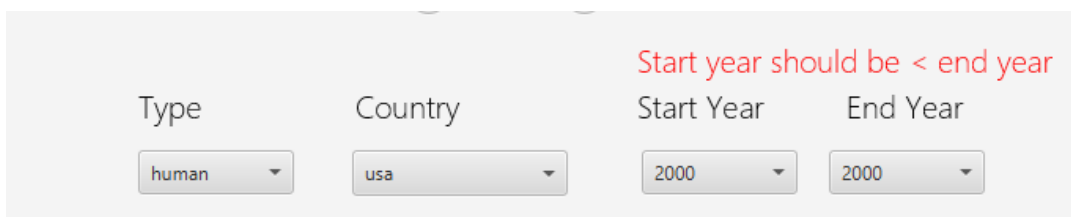
- You can then chose the start year and end year of the query: if an invalid year range is entered, an error message will pop up:

Invalid entry

- The system uses Standard competition ranking for the calculations
- You can get more information about this task by hovering of the more info tab

Task 6

- Task 6 follows a similar mechanism as Task 3, you can select the types and countries for you and your mate.
  - o This can be human to human, human to pet or pet to pet.
- Preference list will only support a preference range from -5 to +5 and the ranges will be further restricted depending on the datasets supported years.

This is to assure that users can only generate reports on supported years.
- Underneath we have the ranking algorithm and rank resolution methods:

  - o The ranking algorithm determines the method in which the names are ranked: you can read more about it here Ranking - Wikipedia
  - o Rank resolution methods are the ways in which you can resolve the ranks of names that have not been found:
    - ▪ standard that simply sets the rank to the size of the population + 1
    - ▪ Levenshtein distance: it finds the most similar name the persons said year and adopts their rank. This is especially good for names with special characters such as "AsbjÃ¸rn" a Norwegian name that users unfamiliar with said lexigraphy may not be able to type, instead the user can just type in "AsbjA,rn" and it will most likely match to "AsbjÃ¸rn".
- When pressing the generate button, the parm, pasrm and LD algorithm will be performed to calculate your compatibility based on your rankings and the year the two people/ pets are born, and composite will be an average of the 3 scores.
- You can hover over the labels (composite, parm, parsm, and LD) to get more information (physically do the movements) E.g.
  No hover

Mouse over composite

- If more information is desire on the implementation and philosophy of algorithms or options during runtime, you can simply hover of the "more information" text to get more information.
- NOTE:
- The name formatting must be one string with no white characters in-between, if there is it will result in an error message:

- if the name is valid, the leading and trailing white spaces will automatically be removed and the first character will be capitalized and the remaining characters will be lower cased upon clicking generate

- **before**   **After**

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