Anagram

Your task is to create simple Java webservice. This service will offer two different services. The first one is an endpoint, what gets a word, and provides every available permutation of the characters from the input word. The other service is providing just that words, what is a permutation of the input word’s characters and an anagram (that character sequence is a valid word) with its the type, definition and pronunciation.

Your tasks:

1. Pull the anagram boilerplate code from [this](https://ibm.box.com/s/jgiepl7ulzhni5txqzhtzylo5myb9ijj) URL.
2. Create a new public repository on any source control site. Push the boilerplate code there and track your work there.
3. Create a function what provides all available character permutations for the input string.[[1]](#footnote-1)
4. Create a function what provides just the valid character permutations for the input string. A character permutation is valid, if the word is existing in the English language. Next to the words provide the type, the description and the pronunciation of the character permutation. To query these informations use a public API for example the <https://owlbot.info/> to query the data.[[2]](#footnote-2)
5. Expose these functions as JAX-RS web services.
6. Update the index.html with the possibility to use these web services.[[3]](#footnote-3)

If you have any question or something is not clear, do not hesitate to reach us.

1. Feel free to create and use any helper functions, classes, external libraries, etc. as many as you want. Do not forget to write tests. [↑](#footnote-ref-1)
2. Feel free to use any other public API. If that API does not provide any of the previously requested, feel free to chose any other attribute for that word. Feel free to create and use any helper functions, classes, external libraries, etc. as many as you want. Do not forget to write tests. [↑](#footnote-ref-2)
3. Feel free to create and use any helper files, functions, external libraries, etc. as many as you want. [↑](#footnote-ref-3)