Backend Coding Test

Download 3 csv files from https://tatoeba.org/en/downloads:

1. Sentences

Filename

sentences.tar.bz2

File description

Contains all the sentences in the selected language. Each sentence is associated with a unique id and an ISO 639-3 language code.

Fields and structure

Sentence id [tab] Lang [tab] Text

2. Links Filename

links.tar.bz2

File description

Contains the links between the sentences. **1** [tab] **77** means that sentence #77 is the translation of sentence #1. The reciprocal link is also present, so the file will also contain a line that says **77** [tab] **1**.

Fields and structure

Sentence id [tab] Translation id

3. Sentences with audio Filename

sentences_with_audio.tar.bz2

File description

Contains the ids of the sentences, in all languages, for which audio is available. Other fields indicate who recorded the audio, its license and a URL to attribute the author. If the license field is empty, you may not reuse the audio outside the Tatoeba project.

Fields and structure

Sentence id [tab] Username [tab] License [tab] Attribution URL

Requirements

- Using 3 given csv files above to write a program (**Java or Python script**) to generate English-Vietnamese translation csv file :
 - 1. ID of English sentence (id)
 - 2. Text of English sentence (text)
 - 3. URL of English sentence's audio (audio_url)
 - format: https://audio.tatoeba.org/sentences/<Lang>/<Sentence id>.mp3
 - ex: https://audio.tatoeba.org/sentences/eng/1319.mp3
 - 4. ID of Vietnamese translation (translate_id)
 - 5. Text of Vietnamese translation (translate_text)
- Import translation csv file to PostgreSQL (https://www.elephantsql.com/) by another program (Java or Python script)
- Make a public **API service** (**Java Spring Boot**) to show translation data with paging of 10 records using database from above step:
 - Project should be well structured (with layers), not only to fulfill the requirement

How to submit

- Submit your code somewhere accessible from us (Github, Google Drive, ...) with folder structure as below

```
api-service
scripts
csv_parse_and_merge.py
import_db.py
requirements.txt
```

Host API service somewhere accessible from us (Heroku, Firebase, ...)
 Expected API: <YOUR_HOST>/api/translations?page_number=2&page_size=10