**Phonetics Practice AI - Project Outline**

Hey! Here's a structure idea for an AI platform to help practise English phonetics.  
The idea is to divide it into 4 main categories. Each of them should include an **infinite number of words, expressions, or examples—from A to Z**.

**1. Transcription**

* The AI should show **only the word, sentence, or paragraph** — **without** any transcription.
* The user must write the **IPA transcription** using a virtual **IPA keyboard**.
* After submitting the attempt, the **correct transcription will be shown as feedback**, so learners can compare and learn.
* The system must allow random selection from **word / sentence / paragraph** options.

**2. Accent (Stress)**

* Focus on **word and phrase stress**.
* Categories to choose from:
  + Two-syllable words (e.g. *Friday*)
  + Three-syllable words (e.g. *computer*)
  + Phrasal verbs (e.g. *pick up*)
  + Complex words (e.g. *loudness*)
  + Compound words (e.g. *car keys*)

**3. Elements of Simplification (Connected Speech)**

* Show spoken-like sentences where users identify which **element of simplification** is used.
* List of possible answers:
  + Assimilation
  + Coalescence
  + Elision
  + Syncope
  + Epenthesis
  + Aphesis
  + Liaison
  + Juncture

**4. Weak and Strong Forms**

* The AI displays a sentence where a grammatical word is highlighted (e.g. *have*, *do*, *he*, *and*).
* Users decide whether it is in its **weak** or **strong** form and write the corresponding transcription.
* Grammatical categories include:
  + Auxiliary verbs
  + Pronouns
  + Conjunctions
  + Prepositions
  + Demonstratives

**🧩 IPA Keyboard (Virtual Input Panel)**

Include a clickable **IPA keyboard** with the following symbols:

**🔸 12 Pure Vowels:**

iː, ɪ, ʊ, uː, e, ə, ɜː, ɔː, æ, ʌ, ɑː, ɒ

**🔸 8 Diphthongs:**

eɪ, aɪ, ɔɪ, aʊ, əʊ, ɪə, eə, ʊə

**🔸 24 Consonants:**

p, b, t, d, k, g, f, v, θ, ð, s, z, ʃ, ʒ, h, tʃ, dʒ, m, n, ŋ, l, r, j, w

**🔸 Additional Symbols:**

* Slashes: / /
* Primary stress: ˈ
* Secondary stress: ˌ
* Dot for syllable division: .

All four categories must include an **unlimited set of examples** from A to Z, automatically loaded from trustworthy sources.

**🔗 Useful Resources (words, rules, sentence banks):**

* <https://www.oxfordlearnersdictionaries.com/>
* [WordReference](https://www.wordreference.com/)
* <https://dictionary.cambridge.org/>
* [Linguee](https://www.linguee.es/)
* <https://archive.org/search.php?query=english%20phonetics%20booklet>
* <https://www.phonetics.ucla.edu/>
* <https://www.bbc.co.uk/learningenglish/english/features/pronunciation>