This doc contains the details regarding the roadmap for phase 2 of the BTP project.

Currently existing features (built till phase 1)

- An **android app** with which we can
    - User login and signup
    - Collect user voice samples for sentences from a particular hardcoded database
    - Random allocation of the models for users
- An admin **web dashboard**
    - Batch and multi-select export a users voice recorded samples
    - Stats to show the number of audio samples recorded by week/month/year/all-time
    - Stats to indicate the number of users joined by week/month/year/all-time

Technologies used till now
- Flutter (for the android app)
- Flask, python (for the server)
- Celery, Redis (as background task queue)

Roadmap

- Add admin email support
    - Send emails to self
    - Normal Gmail (alpha 1)
    - Custom SMTP server(alpha 2)
    - Finalize (beta 0)
- Modular database plugin (**IMPLEMENTED**)
    - Admin can upload databases from the admin console
    - Support multiple language databases
    - Mixed sentences (pairs)
- Decide on whether we want to host a centralized hub for others to join as admins for their respective organizations or just give client and server code away for organizations (clarify?)
    - Central organization dashboard
    - Public and private organizations (?)
        - Allows no need for requesting data from public organizations
        - Text and voice dataset requests from other organizations
        - "Join a private organization" option in the app.

- Organization dashboard
    - Custom server url
    - Custom SMTP server url (?)
    - Custom client source requests (clarify ?)
    - Central dashboard for managing meta-organizations
- Stats
    - Users
    - Datasets
    - Each sample text
    - Low voice sampled texts based on thresholds
    - Config page on the admin (organization) console to set thresholds
    - (clarify ?)
- Encrypt files by a private organization (clarify ?)
    - Requires open-sourcing the client code
    - Required because organization privacy issues (clarify?)
- App
    - Login via central server or organization server (clarify?)
    - Home page
        - Select by language (after implementing mixed we can also select by a group of languages)
- Concurrent user load testing (**THIS WEEK**)
    - Final load testing
    - Write scripts to query the server and show server performance stats as graphs (alpha 0)
    - On a local machine (note down specs)
    - On a Heroku or some cloud service
    - On the final deploy stage (unknown as of now)
    - Server load stats on the admin console (low priority)
- Sentry error reporting setup for both app and server
    - Sentry is very useful to catch future bugs on both server and the app
    - Custom sentry config on the admin console (clarify ?)
- Publishing to play store (clarify ?)
    - Requires google play account worth 25$ (clarify ?)