

Stuttherapy - Demo

version: 2.0

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Reminders...

Why ? **12 weeks engineering internship**

Where ? **At Universiti Teknologi PETRONAS**

Goal ? **Develop an application to help stutterer**

Reminder : Application specifications

- **Exercises**
 - Training (ex : metronome, DAF, etc)
 - Progress (logs and line charts)
- **For whom :**
 - Stutterers (to control their speech flow)
 - Speech therapist (to control their patients)
- **Manuals “How to use the app”**

Startup page

- App description / app purpose
- Setup the user account :
 - *either* **Stutter** ?
 - *or* **Therapist** ?

Stutter account - Homepage

- Exercise list :
 - Metronome ✓
 - Reading ✓
 - DAF ✗
 - Mirroring ✓

Stutter account - exercise (1/2)

- **Training**
 - **Exercise settings** (*common settings + specific settings*)
 - *Resources : Text / Sentences / Words*
 - *Perception : Covered / Uncovered*
 - *Check pronunciation (y/n)*
 - *Enable recording (y/n)*
 - *Example specific settings : Metronome BPM*
 - **Training** (*each exercise defines its structure with following widget*)
 - *Audio recorder widget*
 - *Resources widget*
 - *Submit widget*
 - *Metronome widget*
 - *Video recorder*
 - *...*

Stutter account - exercise (2/2)

- **Progression**
 - **Exercises progression list**
 - *Cloud synchronisation status*
 - *(optional) Feedback*
 - *Theme*
 - *Date*
 - *(optional) Recording resource*
 - *(optional) Saved words*
 - **Charts**
 - *Pronunciation accuracy*
 - *Over a week / month / year*

Stutter account - Saved words

- List of words saved during exercise
 - *Remove all of them*
 - *Remove one by one*

Improvement: add manually a word

Improvement: select several words to delete them

Stutter account - Synchronisation

- **Required : Signed account (Firebase authentication)**
 - *Sign-up form (pseudo / email / passwd / passwd confirmation)*
 - *Sign-in form (email / passwd)*
- **Exercise logs synchronisation on the cloud (Google Firestore : NoSQL)**
- **Backup cloud progression (to saved them locally)**

Improvement (critical) : save recording files (audio / video) on the database

Improvement (critical): option to delete user data, user account (*laws & regulations*)

Improvement : synchronise saved words

Feed between stutter user and therapist

Data shared between stutter and therapist:

- *List of synchronised exercises*

For the Stutter user :

- *Add therapist by his ID account*
- *Delete current therapist access*

For the therapist

- *Remove patient*

Improvement: Process to add a therapist (QRcode ??)

Therapist account

- **His account ID**
- **Patients list**
 - *Patient feed (remove patient, see exercises)*

Manuals

- Stutterer
- Speech therapist

And now ?

Firestore pricing

<https://firebase.google.com/pricing>

Publication on Google Play Store

AppBundle : <app>/build/build/app/outputs/bundle/release/app.aab

<https://developer.android.com/studio/publish/upload-bundle>

Application source code and documents

.zip file with the application code AND **key to signed the app**

Github repo with issues (private)

Server side (Firestore)

2 solutions :

- UTP create a new project (instructions in README .md)
- I give you permissions on the actual Firestore project