This dataset contains 660 sound files. It was collected by 5 speakers in 4 different languages. The duration of each file in the dataset is nearly 3 minutes, where the first minute in each is silent. The recorded speech files are distributed as follows, 264 are recorded for 2 Arabic speakers, 132 are recorded for an English speaker, 132 are recorded for a Chinese speaker and the last 132 files are recorded for an Indonesian speaker. The mixer Zoom R16 and 22 different microphones as described in section (1) below were used to collect this dataset in 6 different environments as described in section (2). In all recording sessions, we keep a distance of 20 cm between the speakers and the Mics.

1. **Microphones Description:**

The microphones used to collect this dataset belong to 7 different trademarks. Table (1) illustrates the number of used Mics of different trademarks and models.

Table 1: Trademarks and models of Mics

|  |  |  |
| --- | --- | --- |
| **Mic Trademark** | **Mic Model** | **Number of Mics** |
| Shure | SM-58 | 3 |
| Electro-Voice | RE-20 | 2 |
| Sennheiser | MD-421 | 3 |
| AKG | C 451 | 2 |
| AKG | C 3000 B | 2 |
| Neumann | KM184 | 2 |
| Coles | 4038 | 2 |
| The t.bone | MB88U | 6 |
| **Total** | | **22** |

1. **Environment Description:**

A brief description of the 6 environments in which the dataset was collected is presented here:

* Soundproof room: a small room (nearly 1.5m × 1.5m × 2m), which is closed and completely isolated. With an exception of a small window in the front side of the room which is made of glass, all the walls of the room are made of wood and covered by a layer of sponge from the inner side, and the floor is covered by carpet.
* Class room: standard class room (6m × 5m × 3m).
* Lab: small lab (4m × 4m × 3m). All the walls are made of glasses and the floor is covered by carpet. The lab contains 9 computers.
* Stairs: is in the second floor. The place of recording is 3m × 5m
* Parking: is the college parking.
* Garden: is an open space outside the buildings.

1. **Naming Convention:**

This set of rules were followed as a naming convention to give each file in the dataset a unique name:

* + The file name is 19 characters long, and consists of 5 sections separated by underscores.
  + The first section is of 3 characters indicates the Microphone trademark.
  + The second section of 4 characters indicates the microphone model as in table (2).
  + The third section of 2 characters indicates a specific microphone within a set of microphones of the same trademark and model, since we have more than one microphone of the same trademark and model.
  + The fourth section of 2 characters indicates the environment, where

Soundproof room 🡺 01

Class room 🡺 02

Lab 🡺 03

Stairs 🡺 04

Parking 🡺 05

Garden 🡺 06

* + The fifth section of 2 characters indicates the language, where

Arabic 🡺 01

English 🡺 02

Chinese 🡺 03

Indonesian 🡺 04

* + The sixth section of 2 characters indicates the speaker.

Table : Microphones Naming Criteria

|  |  |
| --- | --- |
| **Original Mic Trademark and model** | **Naming Convenient** |
| **Shure SM-58** | **SHU\_0058** |
| **Electro-Voice RE-20** | **ELE\_0020** |
| **Sennheiser MD-421** | **SEN\_0421** |
| **AKG C 451** | **AKG\_0451** |
| **AKG C 3000 B** | **AKG\_3000** |
| **Neumann KM184** | **NEU\_0184** |
| **Coles 4038** | **COL\_4038** |
| **The t.bone MB88U** | **TBO\_0088** |

For example: SEN\_0421\_02\_01\_02\_03 is an English file recorded by speaker number 3 in the soundproof room using microphone number 2 of Sennheiser MD-421