

Firestore Structure

Collection ->

Document -> *Documents can contain collections

Fields

Users -> User (tagged by user ID) -> Name: text

Statistics -> User (tagged by user ID) -> Most Recorded Skill: text, Weekly Scores for Self-Management, Social Skills, Creativity: int, int, int

Recordings -> User (tagged by user ID) -> Recordings -> Recording (Tagged by Date) -> Title: text, Text Entry: text, Audio URL: URL, Tags: int, Date: date

User Collection

- User collection will contain all the User documents.
- Documents will be labelled by the user ID of the user associated.
- Won't contain many fields as there is currently no need for further information

Statistics Collection

- Statistics collection will contain all documents relating to each user
- Like the user collection, documents will be labelled by user ID
- Some possible statistics have been included, further ideas can be added with no issue

Recordings Collection

- Recordings collection will contain documents of each user, which will then contain a sub-collection containing all recordings
- User documents will be labelled by user ID
- 'Recording' documents will be labelled by the date they were recorded
- The 'Recording' document contains fields for the title of the recording, the text entry provided by the user, the tags the user has associated with the recording, and the Date it was recorded.
 - Including the Date in the document is necessary as it simplifies the retrieval of that data, should it need to happen
- The audio field will contain a URL as audio files will be uploaded to firebase cloud storage, due to firebase's firestore limiting document size to 1MB

- When the user needs to access one of their recordings, we can acquire the URL through querying the database, and subsequently download the recording