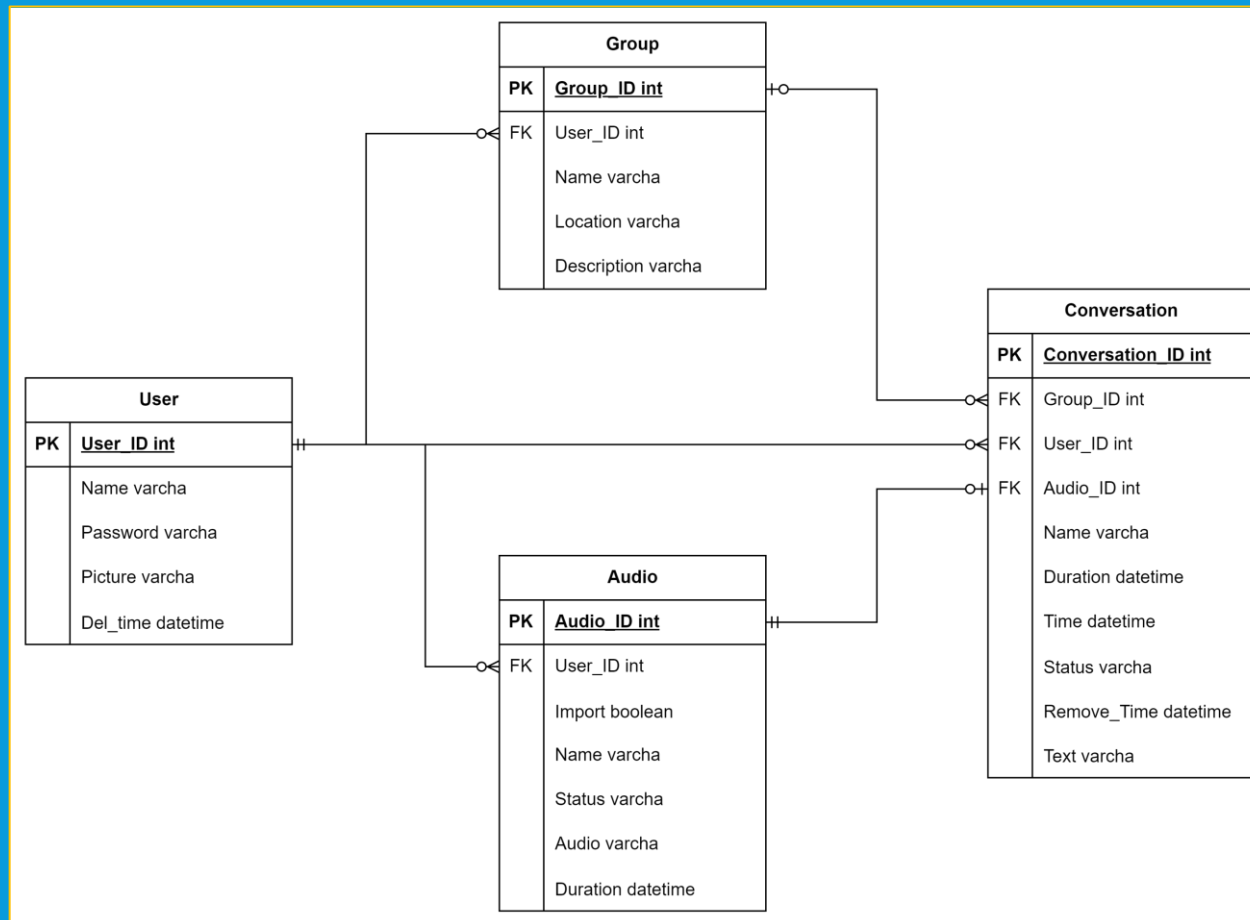


VSTT ERD DESIGN

ERD



Here are the ERD designed base on the project that has been completed. It has 4 entity:

- User
- Group
- Audio
- Conversation

ENTITY – USER

User	
PK	<u>User_ID</u> int
	Name varchar
	Password varchar
	Picture varchar
	Del_time datetime

This is entity user which contain attribute needed for the entity. The attribute include:

- User_ID: act as primary key and have data type as integer.
- Name: contain user name have data type string.
- Password: contain password to login and have data type string.
- Picture: contain img-address to access img and have data type string.
- Del_time: contain how much time the conversation will be completely remove from trash and have data type datetime

ENTITY – GROUP

Group	
PK	<u>Group_ID int</u>
FK	User_ID int
	Name varchar
	Location varchar
	Description varchar

Here are entity group which contain the attribute needed to create a group of conversation. It attribute included:

- Group_ID: act as primary key and have data type integer.
- User_ID: act as foreign key for relation with user entity and have data type integer.
- Name: contain the name of the group and have data type string.
- Location: contain the location set by user and have the data type string.
- Description: contain the description about the group set by user and have data type string.

ENTITY – AUDIO

Audio	
PK	<u>Audio_ID int</u>
FK	User_ID int
	Import boolean
	Name varchar
	Status varchar
	Audio varchar
	Duration datetime

This is entity audio which contain the imported or recorded audio to convert into conversation. Its attribute included:

- Audio_ID: act as primary key and have data type integer.
- User_ID: act as foreign key and have data type integer.
- Import: to category audio is imported or not since imported audio are shown in the list while recorded audio are not but both of them can be export if needed. It has the data type Boolean.
- Name: contain the name of the audio for imported audio and have data type string.
- Status: for imported audio to shown whether the audio is yet to convert or is converting or has converted. It has the data type string.
- Audio: contain the audio's address and have data type string.
- Duration: contain the duration of the imported audio and have data type datetime.

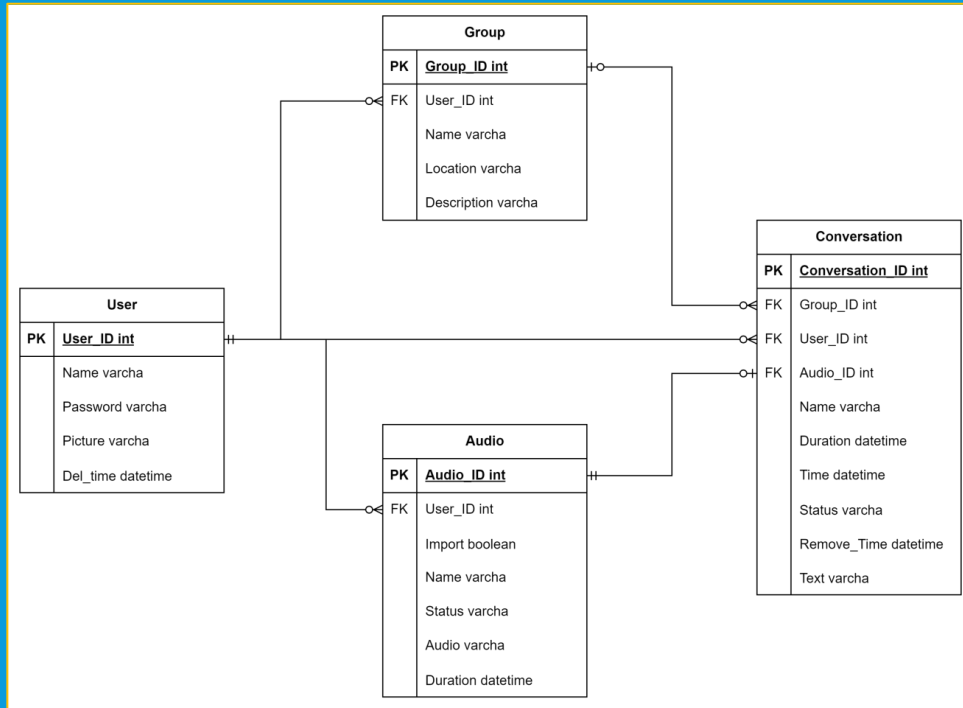
ENTITY – CONVERSATION

Conversation	
PK	<u>Conversation_ID int</u>
FK	Group_ID int
FK	User_ID int
FK	Audio_ID int
	Name varchar
	Duration datetime
	Time datetime
	Status varchar
	Remove_Time datetime
	Text varchar

This entity contain the attribute for the conversation and other foreign key to form a relation. This entity's attribute include:

- Conversation_ID: act as the primary key and have data type integer.
- Group_ID: act as foreign key and have data type integer.
- User_ID: act as foreign key and have data type integer.
- Audio_ID: act as foreign key and have data type integer.
- Name: contain the name of the conversation and have data type string.
- Duration: contain the duration of the audio has been use to convert into this conversation and have data type datetime.
- Time: contain the time of convert audio into this conversation and have data type datetime.
- Status: contain the status whether the conversation is deleted or not and have the data type string.
- Remove_time: contain the time when the conversation was deleted to auto remove from trash after a period of time and have data type datetime.
- Text: contain the content of the conversation and have data type string.

RELATIONSHIP



The relationship in this ERD included:

- User – Group: one and only one to zero or many indicate that 1 user can make many group but each group only have 1 user only.
- User – Conversation: one and only one to zero or many indicate that 1 user can have many conversation but each conversation only have 1 user only.
- User – Audio: one and only one to zero or many indicate that 1 user can have many audio but each audio only have 1 user only.
- Group – Conversation: one or zero to many or zero indicate that each group can have zero or many conversation while each conversation can only belong to 1 group or none.
- Audio – Conversation: one and only one to one or zero indicate that each audio is can be converted conversation or yet to do so. While each conversation has to have their audio version either imported or recorded even though recorded audio are not shown in list.

TAB HOME

Tab home display a list of conversation that belong to the user that has login. The list of conversation also display some detail of the conversation such as name, created time, belong to which group and it duration.

It also allow user to interact such as add it to a group, see more detail or delete it in the trash can.

From the home tab there also popup for recording new audio, popup for filter and popup for delete conversation. Popup for filter will allow user to filter the content of the list base on user reference.

POPUP OF RECORDING AND EXPORT

The popup of recording can only be access from tab home. It include the popup for recording, popup for converting process and popup for save the conversation that has been convert.

This popup will first allow user to record the audio and after converting the audio into the conversation. The converting popup will allow user to save the conversation which will also allow user to name it or at it to a group.

The export popup can also be access in home tab too and it allow user to export either text or audio file, imported or recorded audio in difference type of file format and to difference directory.

TAB IMPORTED AUDIO LIST

Tab imported audio list will display the list of the audio that has been imported along some of its information. The information include name, time of import, duration of the audio and the status of the audio.

Database wise it the same as the conversation list. The only difference lie in the fact that all the value of the conversation are store in the table while the table of the audio list only store the address to the audio instead of that audio itself.

From here user can access any imported audio can replay it while checking the content of the conversation.

IMPORT AND SHARE POPUP

Import audio popup can be call from any tab by click the import button and choose directory to import audio. It also show newest imported audio for user to check.

The share popup can be access in tab imported audio list, it will allow user to share though multiple third-party application, the share file can be text or audio and can be multiple type of file format too

TAB MY CONVERSATION - TRASH

The my conversation displaying the list of conversation and all the function user can use to interact with the conversation except recording new audio. But in reality, tab home is display the list retrieve from tab my conversation for faster interaction.

From my conversation tab, user can access the trash tab where deleted conversation will be store. Both tab has the same table and the only difference is in trash tab, group value of the conversation are set to null, status set to delete and it will be automatically completely remove from database after a set of time or manually by user. The conversation in trash can be recover incase user mistakenly delete it.

The tab trash also have a popup to make sure if the user want to completely delete conversation from trash.

TAB GROUP LIST

Group list display the table of group which include the group name, location, description and allow user to interact with group.

From here user can add, delete or view group detail by access group detail popup. Group detail popup will show the list of conversation that belong to that group which contain the attribute name, time, duration and allow user to interact with the conversation detail or the relationship between group and conversation.

The function that user can do to interact with the relation between conversation it remove conversation from group or add more conversation to group by call for add conversation to group popup. From here user can choose which conversation that hasn't been add to any group yet to add to the current interacting group.

User can also create new group by calling create group popup and input value such as name, description and location.

USER TAB

User tab can be access from any where by click the user avatar on the top right conner. Form this tab user can change their picture, user name, password, language and set up time for conversation to be auto completely delete after a set of time.

In this tab user can also log out to change account which also mean that difference data will be display.