Database Design

Database Tables

1. **Users**

   - `uID` (Primary Key) → `Integer`

   - `username` → `Varchar(20)`

   - `email` → `Varchar(50)`

   - `password` → `Varchar(50)`

   - `password_hash` → `Varchar(50)`

   - `updated_at` → `date`

   - `student` → `bool`

   - `admin` → `bool`

2. **Sessions (Include timer)**

   - `sID` (Primary Key) → `Integer`

   - `uID` → from Users (subset of users at `uID`)

   - `start_time` → `TIMESTAMP`

   - `end_time` → `TIMESTAMP`

   - `duration` → `int`

   - `status` (e.g., active, completed) `'in progress' 'completed' 'paused'`

   - `created_at` → `TIMESTAMP`

3. **Playlists**

   - `pID` (Primary Key) `Integer`

   - `uID` → `Integer`

   - `playlist_name` → `Varchar(50)`

   - `music_service` (e.g., Spotify) → `'Spotify' 'AppleMusic' 'Pandora'`

- `created_at` → `TIMESTAMP`

4. **StudyGroups**

- `sgID` (Primary Key) `Integer`
- `cID` → subset of TextChannels ID `Integer`
- `uID` (Foreign Key to Users) `Integer`
- `group_name` → `Varchar(50)`
- `created_at` → `TIMESTAMP`
- `updated_at` → `TIMESTAMP`
- `members` → `Integer` **(multiple integers) ** compromised of uIDs**

5. **TextChannels**

- `mID` → from Messages (**what do you mean from messages)** → `Integer`
- `uID` (Foreign Key to Users)→ `Integer`
- `channel_name` → `Varchar(50)`
- `created_at` → `DATETIME`
- `updated_at` → `DATETIME`

6. **Messages**

- `mID` (Primary Key)→ `Integer`
- `uID` (Foreign Key to Users)→ `Integer`
- `text` → `Varchar(500)`
- `created_at` → `DATETIME`
- `updated_at` → `DATETIME`

7. **Goals**

- `gID` (Primary Key) → `Integer`
- `uID` (Foreign Key to Users) → `Integer`
- `goal` → `Varchar(500)`
- `status` → `bool`
- `created_at` → `DATE`

- **deadline** → `DATE`

8. **BlockedWebsites**
   - **bID** (Primary Key) → `Integer`
   - **uID** (Foreign Key to Users) → `Integer`
   - **website_url** → `Varchar(500)`
   - **block_start** (Timestamp when the website block starts) → `TIMESTAMP`
   - **is_blocked** → `bool`
   - **created_at** → `TIMESTAMP`
   - **updated_at** → `TIMESTAMP`

9. **Achievements**
   - **aID** (Primary Key) → `Integer`
   - **uID** (Foreign Key to Users) → `Integer`
   - **achievement** → `Varchar(50)` the name of the achievment visible in the profile
   - **earned_at** → `DATE`