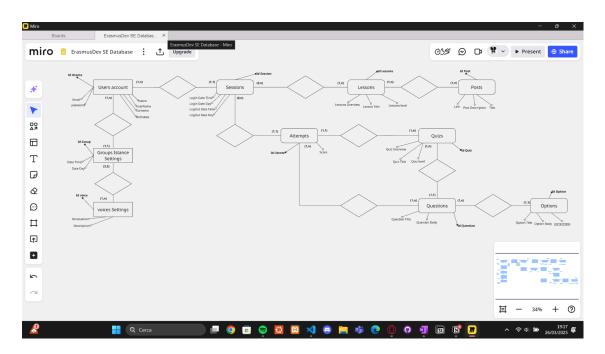


Database Analisys

WorkSpace Link

https://miro.com/app/board/uXjVILeiG4E=/?share_link_id=36394514037



Classes Description ad Analisis

User:

An user ownes an account with his statistics and settings. So for each user setting it is related to a single user, but a single user can be associated to more than one settings group.

Notice that the only valid settings group will be the last one.

Session

Every time a single user logs in the application, a session will be created to identify which activities the user have been performed.

Activities could be Quiz or Lessons:

- Lessons: it is straightly connected to a single session, if a user starts a lessons, this will be marked as done (finding a joint is enough to identify that feature).
 - It is not mandatory do lectures, a single lecture could be related to more than one session .
- Quiz attemps: A quiz attempt will be registerd only if the user will send the results to the database.

It is not mandatory do Quiz, a single attempt is related to only one session.

Lessons

A lessons is made of posts. A single lessons is presented with its title and overwiew about the topic.

Each lessons is marked by a "level" that means how muh that lecture could be hard for a user.

Levels(Beginner,Intermediate,Advanced).

Posts

This entity collects information about title description(text of the post) and an optional source link.

<u>Reading Rules:</u> One post could be associated to one lesson but a single lessons cold be related to many posts

Attempts

Each time a user try to pass a quiz , a new istance of the entity "attempts" will be created.

That entity gather information about, which quiz topic it is selected, the question presented and score awarded by the questions.

Reading Rules:

- A single quiz could be associated to many attempts but a single attempt it is related to one quiz.
- A single question could be associated to many attempt and a single attempt could be related to many questions.

Quizs

Quiz are made to test the user's comprehension. Quiz represent a set of question, even if just few of them will be subjected to the user (in a random way).

Each quiz is marked by a "level" that means how muh that lecture could be hard for a user.

Levels(Beginner,Intermediate,Advanced).

Reading Rules: a single question is related to only one quiz but a single quiz is made of many question.

Questions

Question inquiry to the user information studied during the course.

Every question should have a Title and Question Body.

For each question there will be options.

<u>Reading Rules:</u> a single option is related to only one question but a single question is made of many option.

Options

Option are the possible to answare to a question:

Every question should have: Title, Option body and if it is the correct answare.

Question, Limits & Problems:

▼ Post

 Would be possible add more that one link? (so make links a separated entities): No, just one link for the source of the post.

▼ Quiz

- There is no relation between lessons and quizs, you cannot know by the database only if that quiz is made for that lessons or not.
- does the % of right answare change for each question? should it be an attribute?

This section is for waste information and not updated feature, ignore that

Settings Voice & Group Istance:

Settings voice are already decided, an user account can be link to a group of setting that describes his preference.

Reading Rules: more than one setting voice can be related to more that one settings group; the same for the setting group and the setting voice.