**DATABASE DISCRIPTION**

Roles: Admin, Student, Educator

Some roles are also related to separate classes:

**ENTITIES**

**User(inherits IdentityUser)**

FirstName: string

FamilyName: string

*For later*

Picture – optional – how to do it?

**Student (one to one with? LMSAppUser)**

User

Student number – int - will leave it non-unique since different faculties might have identical student numbers

Major - enum

GroupNumber – int

List of StudentCourses (for many to many relationship)

List of StudentLecturecise (for many to many relationship)

List of StudentTask (for many to many relationship)

Task completion rating? – decimal in db? As a part

Task grade rating – decimal in db? As a part

List of StudentBadge

Last seen - Datetime

Total grade in lectures – with get – out of db?

Total grade in exercise – with get – out of db?

*For later- Or in another application!!! To be related to this one?*

List of StudentPracticeSet (for many to many relationship)

Practice rating? – как да се смятат finish rating, grade rating

**Educator (one to one with? LMSAppUser)**

User

Additional info visible to students: string optional

Link to personal page: url, optional

List of EducatorCourses (for many to many relationship)

List of EducatorLecturecise (for many to many relationship)

List of EducatorEvents (for many to many)

List of Tasks

List of Materials – да избира дали са свободни за всички или само за група?

**Course:**

Name - string

Semester - enum

UniYear: string, To be selected automatically in the form with an option to edit

List of Majors

List of Lecturecise

List of StudentCourses(many to many)

List of Materials

**StudentCourses:**

Student

Course

**EducatorCourses**

Educator

Course

TeachingRole

**Lecturecise:**

LectureciseType

List of WeekTimes

List of EducatorLecturecise (many to many)

List of StudentLecturecise (many to many)– should have functionality to be added by group

List of Events

List of StudentTasks

**StudentLecturecise:**

Student

Lecturecise

**EducatorLecturecise:**

Educator

Lecturecise

**WeekTime:**

Day of the week

Time

**Events:**

DateTime

Lecturecise – optinal, could be additional event

List of StudentEvents(many to many)

List of EducatorEvents(many to many)

List of Materials

**StudentEvents:**

Student

Event

**EducatorEvent:**

Educator

Event

EventRole

**Tasks:**

Name: string

Lecturecise:

TaskType:

Content: string, optional

Date created: DateTime

List of Materials

Educator giving:

List of StudentTask

**StudentTask:**

Student

Task

Lecturecise:

Date due: DateTime?

TaskStatus:

Grading Educator:

Grade: decimal, optional

Grade Comment: string, optional

**Badge:**

Name: string

Descripton - string, optional

Task: (optional)

List of StudentBadge

**StudentBadge:**

Student

Badge

**Material:**

Link to repo: url - ??? is this enough?

Educator:

Course:

Task: optional

Event: optional

**ENUMS:**

**Major:** Molecular Biology, Biotechnology

**LectureciseType:** Lecture, Exercise

**Semester:** Winter, Summer

**TeachingRole:** Lecturer, Instructor, Other

**EventRole:** Instructor, Examiner, Observer

**TaskStatus:** NotFinished, ToRedo, Finished

**TaskType:** Current, Final, Other

**FUNCTIONALITY DISCRIPTION**

**GUESTS:**

**-** Sees some homepage

-Registers – includes to mark the role, student number field is required if student role is marked

- Login – by email/or other username and password,

**ADMIN:**

Adds Users:

* Manually
* From an Excell file

Deletes Users – delete is real and not only by Flag

Assigns Roles to users

Approves Roles to users

**APP:**

Sending emails

Automatic email confim

Emails admin for hanging role requests – once per 24 hours