

Project 10

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Project Motivation

- Trainly.io is an App store used to serve the field of all kinds of training
- Faculty can create courses and securely post study materials
- Students can enroll in and complete useful courses they interested
- Trainly.io only charges 30% of any course-enrollment fees

System Description

- a) Register a new user
- b) Administrator can authenticate a faculty user
- c) Provide a categorized list of a student's courses
- d) Enroll a student in a course

System Description

- e) List course materials for a student
- f) Mark course material as having been completed by a student
- g) Provide a certificate of completion for a student
- h) Provide an account history for a user

System Description

1. Find all faculties who teach at least more than 100 students course, which are not free and have rate higher than 90 points.
2. Show all the questions that has likes from students, and show the student ID and email of whom asked the question, as well as the total likes that a question has.

System Description

3. For all the playlists that users created,
count the material order that is included most among the playlists
4. Calculate the total cost of every students.
5. Calculate all the main topics that is included for all the questions
that are asked by students.

System Architecture

- RDBMS MySQL
- Front-end: HTML
- Back-end: Python, Django framework

Why use Django

- Build a website fast
- Easy to manage the hyper links
- MVC model is very clear and easy to use

Database Design

- Source of the data for each table: random generation
- Physical design :

UserId, CID(Course ID), CMID(CourseMaterial ID)

TID(Topic ID), QID(Question ID) is primary key and the cluster index

- ERD
- relational model



