TRAINLY.IO

TEAM:

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PROJECT MOTIVATION

- Trainly.io provides a platform where students can focus on learning interesting materials and teachers can have full freedom to design their courses

- Trainly.io aims to solve the problem that students and course makers face when they enter the MOOC (Massive open online course) arena.

- Trainly.io is an application for online courses

- What users just need to focus on:

  - Students can find, enroll in, pay, and complete courses. Once they complete a course, they are given a certification of completion.

  - Faculty can create and securely post materials.

- Simple as that!

WHAT MAKES TRINLY.IO UNIQUE?

- Courses are made by quality instructors, the verification process requests the faculty member's title, affiliation, and work website

- A rich variety of courses in all different subjects

  - Topics such as artificial intelligence, Linux, machine learning, virtual reality, digital marketing, and web development are thoroughly covered

- Trainly.io goes to the next level by providing students with downloadable files, links, posts, quizzes, and playlists

  - Personal learning experience

- Students get the same educational experience as that of a classroom in an university.

SYSTEM DESCRIPTION

- What does the system do

  - Online course portal

  - Allows students to complete courses online

  - Faculty creates course and its contents

  - Contents can have various formats which build up a course eg. links, videos and quizes

  - Students can register for multiple courses

  - Course completion is tracked by the system

  - After course completion, students is issued a certification of completion

  - Administrators govern the system such as approval of faculty accounts and recruiting new administrators
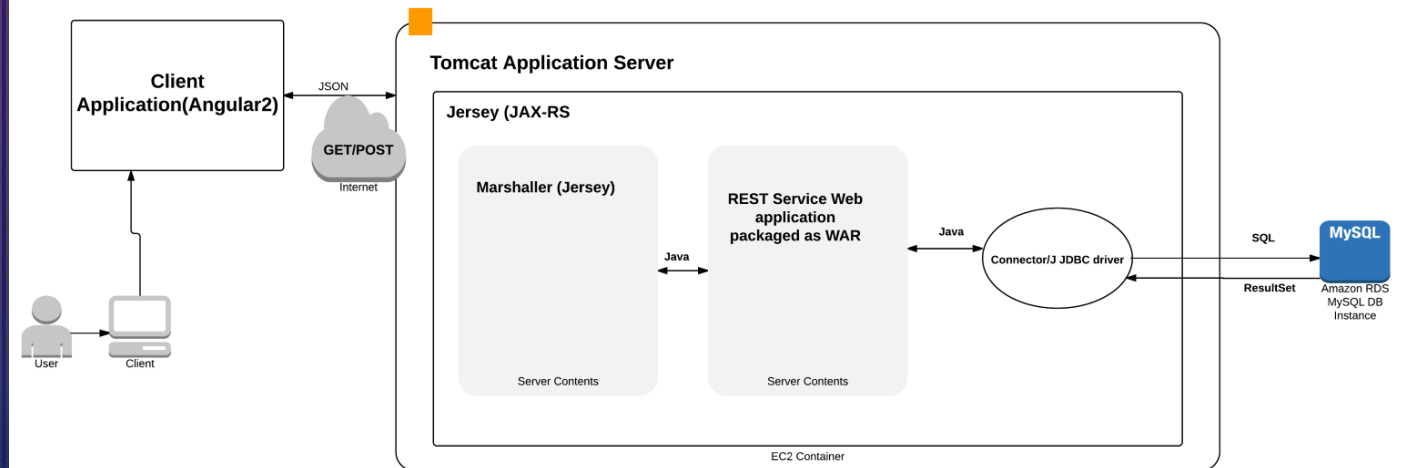
SYSTEM DESCRIPTION

- How does this solve the problem?

  - Facilitates an online classroom environment

  - Allows users to work at their own pace

  - Features such as automatic grading of quizzes allows users to get instant feedback
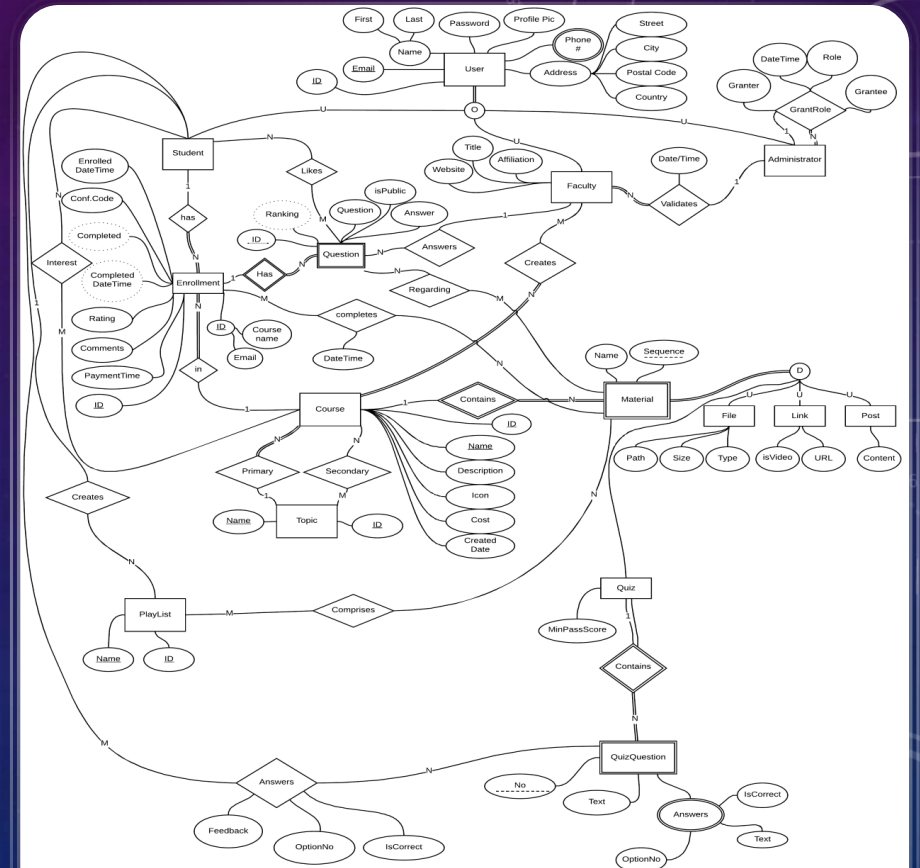
SYSTEM ARCHITECTURE

- DBMS : MySQL
- Front End : Angular2
- Backend : Java, JAX-RS, Connector/J, Maven
- Cloud: AWS(RDS service for MySQL, EC2)
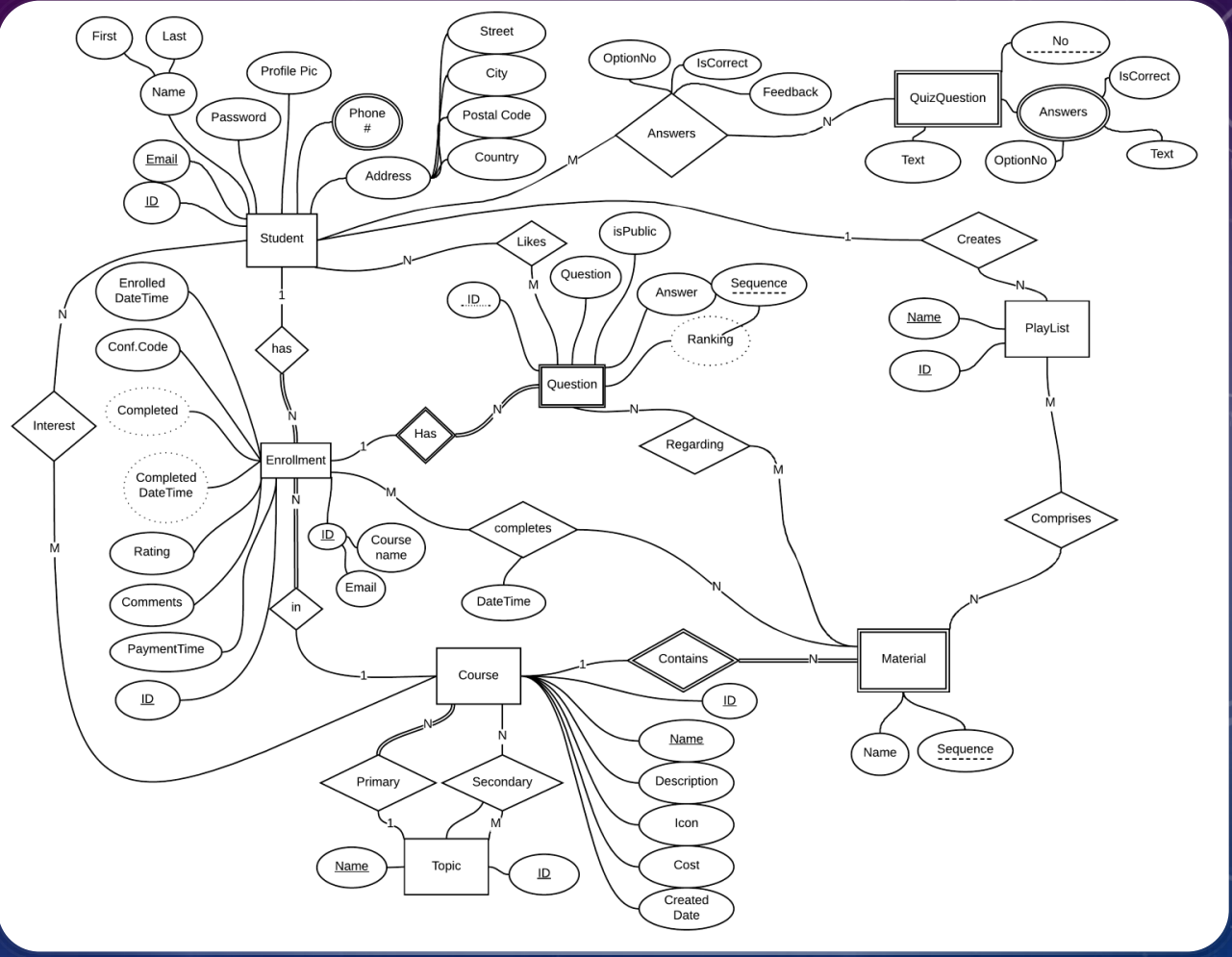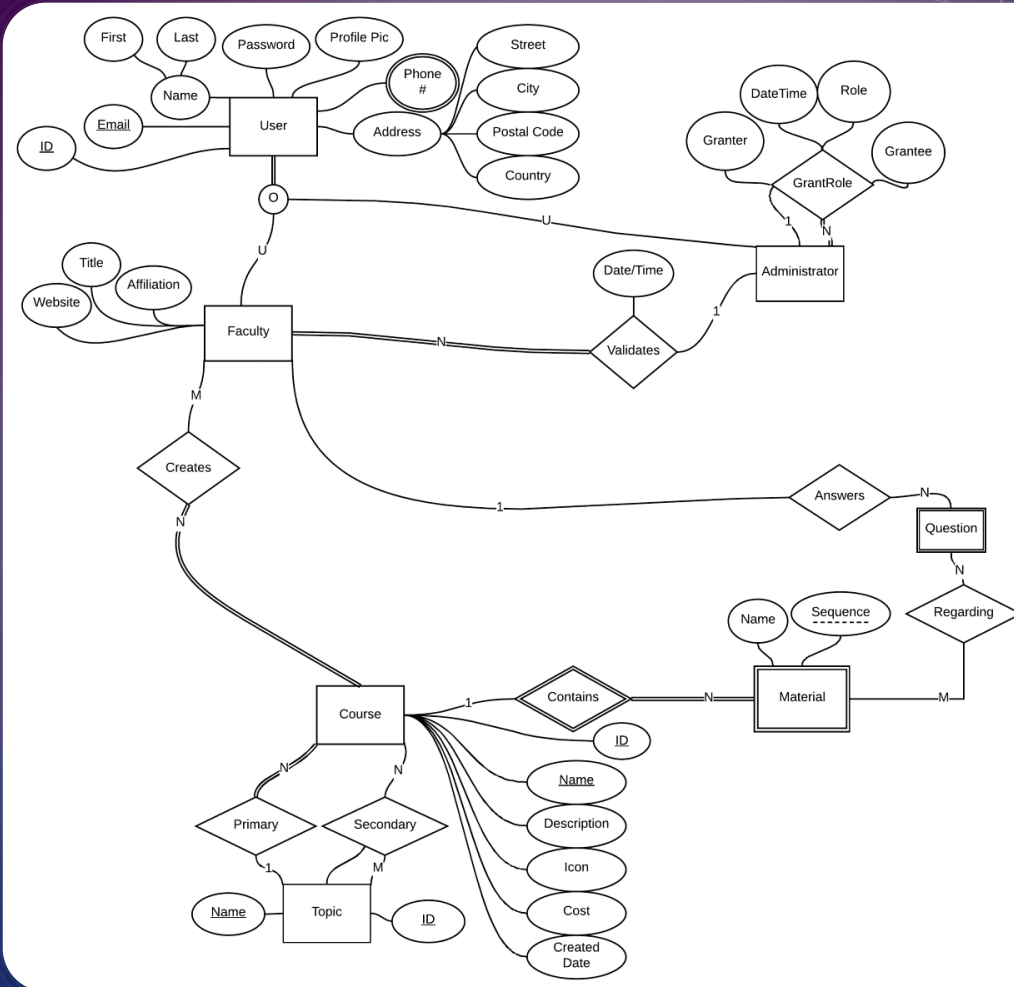
SYSTEM ARCHITECTURE - COMPONENTS

DATABASE DESIGN

- The global ERD can be viewed in terms of three logical views.

- Global ERD ->
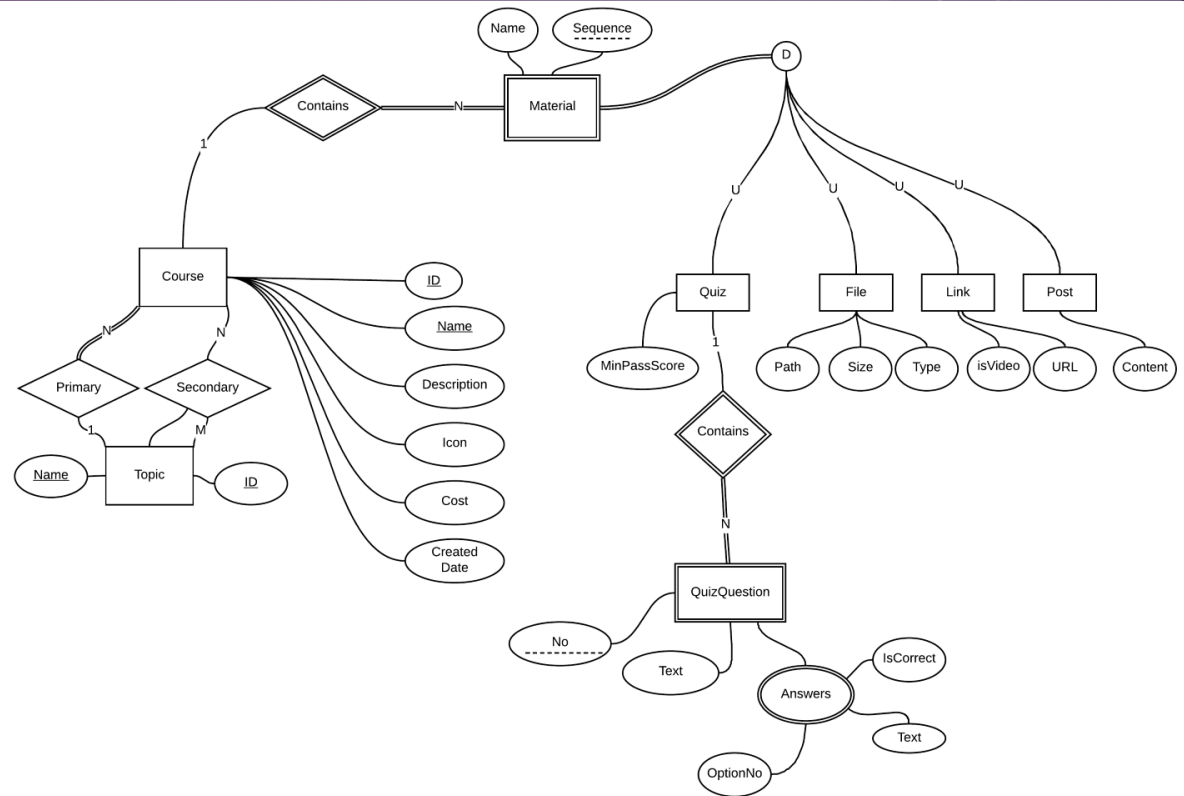
  ▪ Student View

  ▪ Faculty/Admin View
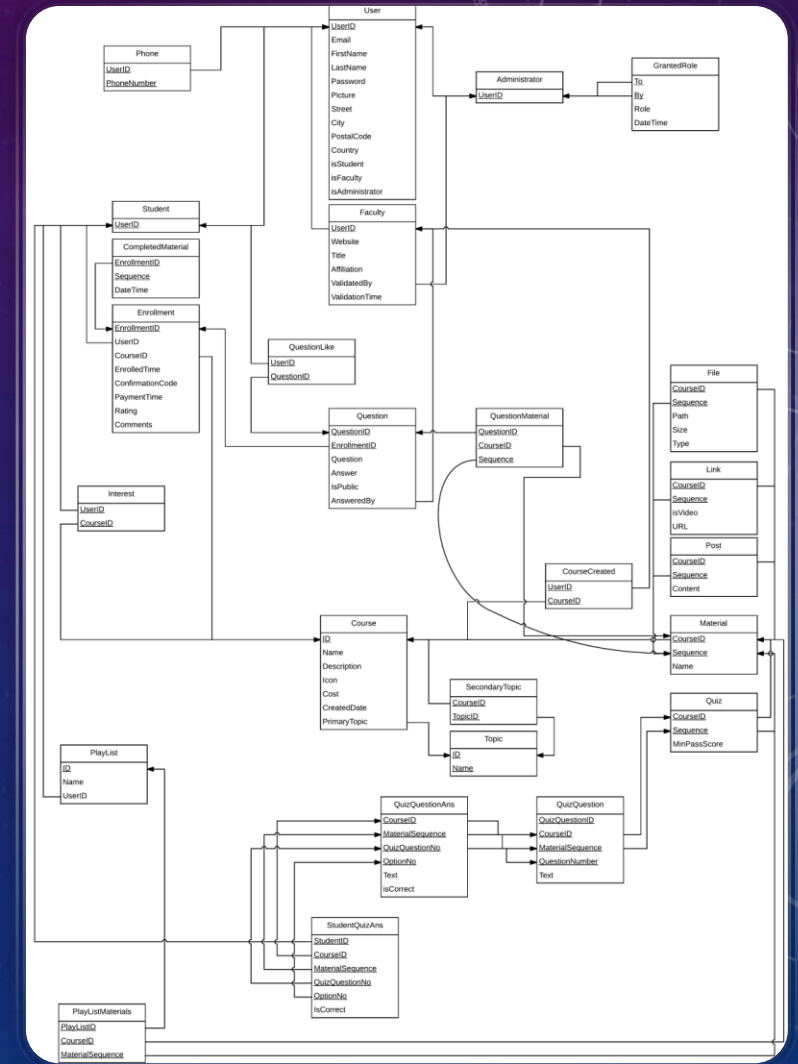
  ▪ Courses View

DATABASE DESIGN – STUDENT

DATABASE DESIGN – FACULTY/ADMINISTRATOR

DATABASE DESIGN - COURSES

DATABASE PHYSICAL DESIGN

DATABASE DESIGN – SOURCE OF DATA

- The data required to fill up entries in tables was taken from Coursera.

- The process of filling in data was manual.

- At least 10 rows of data was inserted into each of the tables.