

CS5200 - SEC02 Database Management Systems

Trainly.io

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Topics:

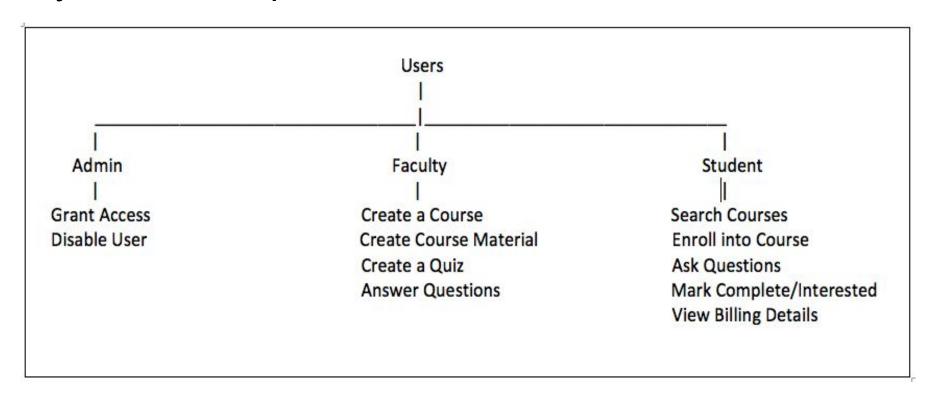
- Introduction
- System Description
- System Architecture
- Database Design

Introduction

- Training system for students
- Single platform for students to learn and interact with course faculty
- Contains users, courses, course materials and quizzes
- Courses and course materials are managed by faculty
- Students can also post questions related to the course and get them answered by the faculty members
- Complete package to train students in the subjects they are interested

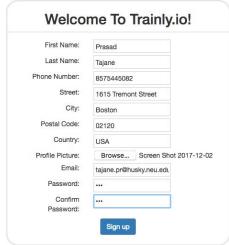


System Description

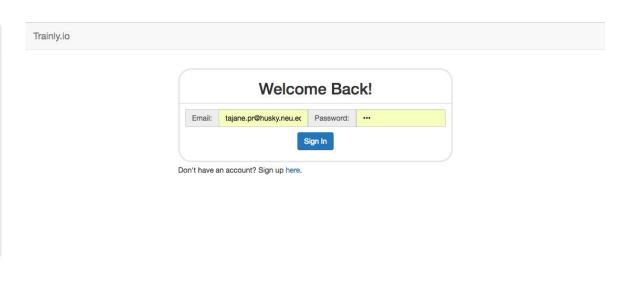


Snippets

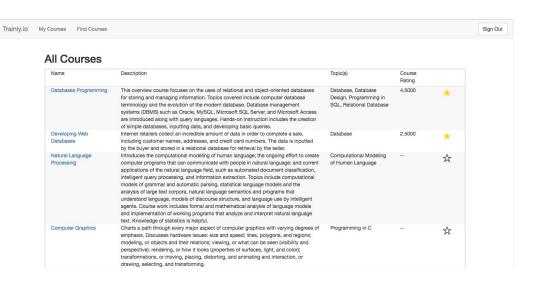
1. Sign Up/In to the System



Already have an account? Sign in here.



2. Search offered Courses



3. Enrol in a course

Trainly.io My Courses Find Courses Sign Out

Computer Graphics

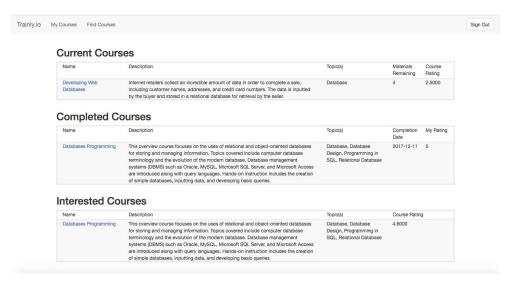
Charts a path through every major aspect of computer graphics with varying degrees of emphasis. Discusses hardware issues: size and speed; lines, polygons, and regions; modeling, or objects and their relations; viewing, or what can be seen (visibility and perspective); rendering, or how it looks (properties of surfaces, light, and color); transformations, or moving, placing, distorting, and animating and interaction, or drawing, selecting, and transforming.

Topic(s): Programming in C

Course Materials

Order	Name	Material Type	View	Completion Date	Questions
3	Computer Architecture Post	Post	Must enroll for access.	-	Questions

4. Check Profile



5. Course Status

Developing Web Databases

Internet retailers collect an incredible amount of data in order to complete a sale, including customer names, addresses, and credit card numbers. The data is inputted by the buyer and stored in a relational database for retrieval by the seller.

Topic(s): Database Enrolled on: 2017-06-12

Course Materials

Order	Name	Material Type	View	Completion Date	Questions
1	Database Link	Link	Visit	Mark complete	Questions
3	Database Post	Post	Not available yet.		Questions

System Architecture











PyMySQL

Hashlib (SHA256)

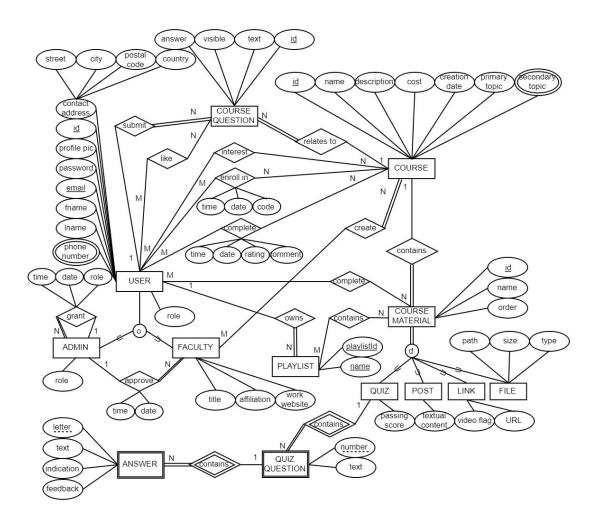
```
salt = get_salt()
salt_plus_password = salt + form.password.data
hash_object = hashlib.sha256(salt_plus_password)
salted_password = hash_object.hexdigest()
```

```
salt_plus_password = user['salt'] + password
hash_object = hashlib.sha256(salt_plus_password)
salted_password = hash_object.hexdigest()
```

Database Design

- ERD
- Relational Model
- Physical Design

ERD



Relational Model