CodeQuest

Group 2 Members: Mion Fujic, Matthew En, Liz Halpern, Zaida Le
Manager: Anushka

https://lucid.app/lucidchart/7aa93a4d-c47e-4303-a4df-2d4b48d15fad/edit?viewport_loc=-1059%2C-1192%2C1226%2C1394%2C0_0&invitationId=inv_d4a6c647-17bf-4090-a3fb-1231a00b92fe

CodeQuest ERD

Two tables for three modules:
Each row in the content table belongs to one of the three module categories:

Module 1 content has:
- HTML content to render
- No exercise (exercise_id == NULL)
- An admin creator.
- A community vote score.

Module 2 content has:
- HTML content to render (instructions)
- An exercise.
- An admin creator.
- A community vote score.

Module 3 content has:
- HTML content to render (instructions)
- An exercise.
- An admin or non-admin creator.
- A community vote score.

Topics

integer	id	Not Null, Unique
integer	prerequisite_topic_id	Not Null
integer	mod1_content_id	Not Null, Unique
integer	mod2_content_id	Not Null, Unique
Set	mod3_content	Default: []

Content

integer	id	Not Null, Unique
integer	creator_id	Not Null
string	name	Not Null, Unique
integer	exercise_id	Nullable, Unique
text	content_html	Not Null

Judge0 Exercises

integer	id	Not Null, Unique
integer	language_id	Not Null
text	Example Solution	Not Null, Passes Test Cases
text	Test Cases (CSV)	Not Null, >=5 rows, Valid CSV

Multiple Choice Exerciese

integer	id	Not Null, Unique
text	options	Not Null, Valid CSV

Votes

integer	id	Not Null, Unique
integer	user_id	Not Null
integer	content_id	Not Null
boolean	is_upvote	Not Null

Content Completions

integer	id	Not Null, Unique
integer	content_id	Not Null, Unique
integer	user_id	Not Null, Unique

Languages

integer	id	Not Null, Unique
integer	judge0_language_id	Not Null, Unique
text	submission_driver	Not Null
string	name	Not Null, Unique

Users (Synced with Cognito as Appropriate)

integer	id	Not Null, Unique
string	email	Not Null, Unique
string	name	
bool	is_admin	Default: False
bool	notifications_enabled	Default: False
bool	dark_mode_enabled	Default: (True/False, designer's preference).

Submissions

integer	id	Not Null, Unique
integer	user_id	Not Null
integer	exercise_id	Not Null
JSON	raw_submission	Not Null
JSON	raw_response	Not Null

On Multiple Choice Exercises:
We represent a multiple choice quiz with CSV text. Each row corresponds to a question. The cells in the row correspond to options. All options will be stored in the CSV where the correct answer will begin with an asterisk.

Example:
Question: Which of these numbers are prime?
```CSV
12, *13, 14, 15
1, *2, 6, 8
```