

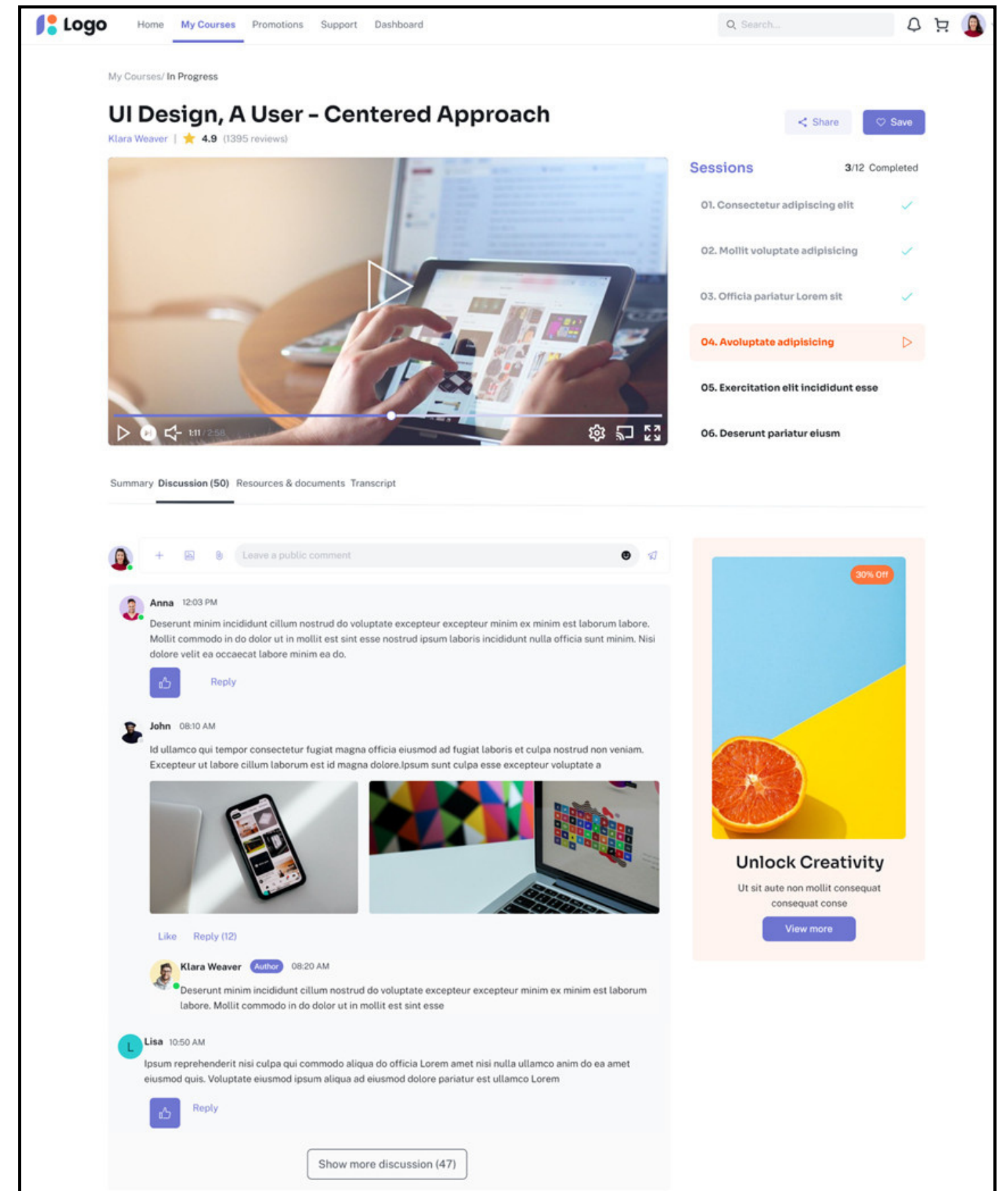
Mentorship program

DATABASE DESIGN

Khuat Bao Nguyen

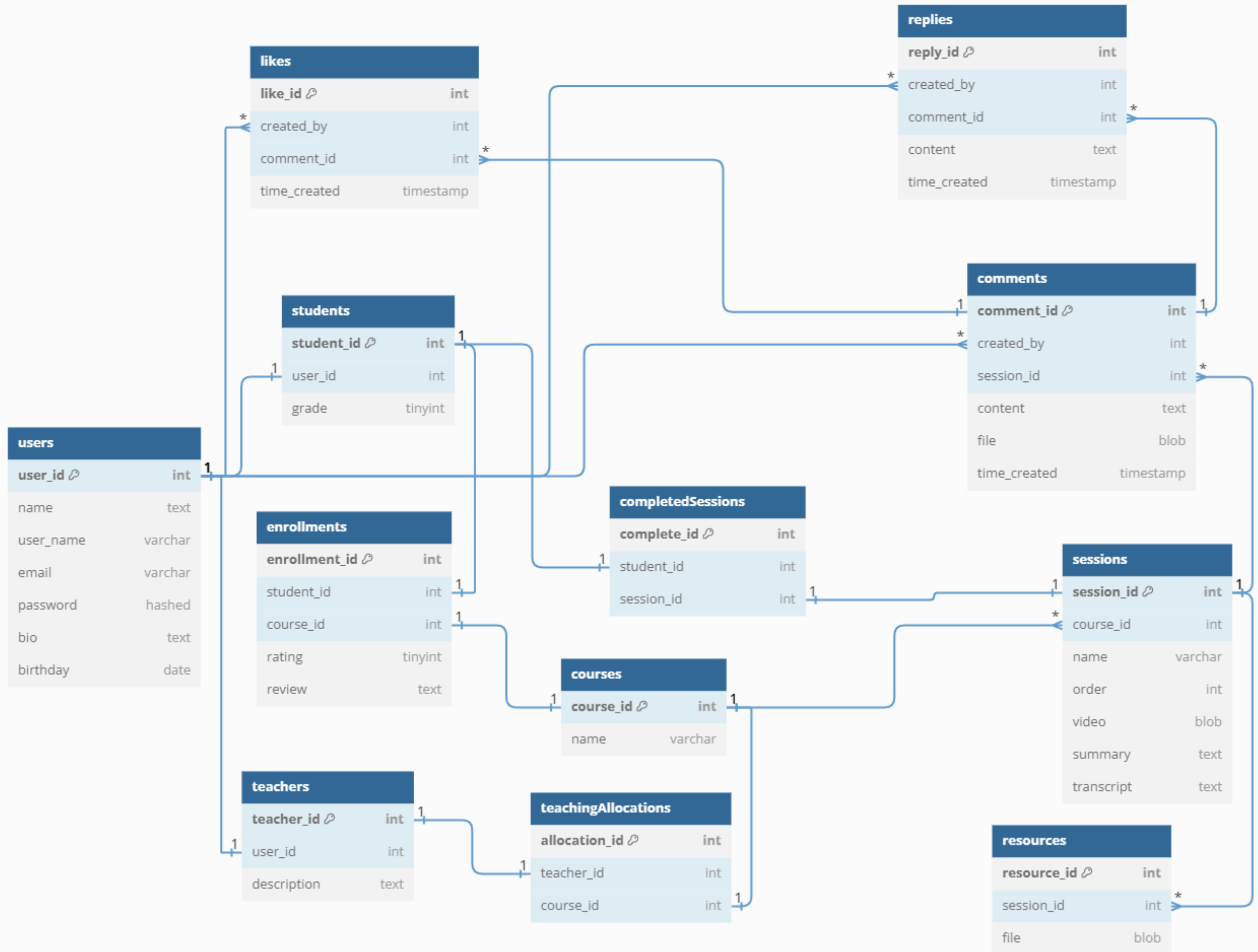


Course's Detail Page





DATABASE DESIGN









QUERIES

Course's name + Teacher + Rating

```
6 • SELECT
7     c.name AS course_name,
8     u.name AS teacher_name,
9     ROUND(AVG(e.rating)) AS average_rating,
10    COUNT(e.review) AS review_number
11 FROM
12    courses c JOIN enrollments e ON c.course_id = e.course_id
13    JOIN teachingallocations ta ON c.course_id = ta.course_id
14    JOIN teachers t ON ta.teacher_id = t.teacher_id
15    JOIN users u ON t.user_id = u.user_id
16 WHERE c.course_id = 2
17 GROUP BY c.course_id, u.user_id;
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	course_name	teacher_name	average_rating	review_number
▶	Data Science Fundamentals	Alice Johnson	5	1

Student's Progress

```
20 • SELECT s.session_id,  
21         s.name AS session_name,  
22         CASE WHEN cs.complete_id IS NOT NULL THEN 1 ELSE 0 END AS completed  
23 FROM sessions s  
24 LEFT JOIN completedSessions cs ON s.session_id = cs.session_id AND cs.student_id = 1  
25 WHERE s.course_id = 2  
26 ORDER BY s.order;
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	session_id	session_name	completed
▶	6	Introduction to Data Science	0
	7	Data Analysis with Python	0
	8	Data Visualization	1
	9	Machine Learning Basics	0
	10	Big Data Analytics	0




Comments + Likes

```
29 • SELECT
30     u.name AS created_by_person,
31     c.content AS comment_content,
32     COUNT(l.like_id) AS number_of_likes
33 FROM
34     comments c JOIN users u ON c.created_by = u.user_id
35     JOIN likes l ON c.comment_id = l.comment_id
36 WHERE session_id = 6
37 GROUP BY c.comment_id;
```

	created_by_person	comment_content	number_of_likes
▶	Michael Wilson	This session provided a good overview of data ...	2
	Sarah Lee	I found the explanation of data preprocessing v...	2
	David Martinez	Can you recommend any resources for further l...	2

Replies of comments

```
40 • SELECT c.comment_id,  
41         r.reply_id,  
42         r.created_by AS repplier_id,  
43         r.content AS reply_content,  
44         r.time_created AS reply_time_created  
45 FROM comments c  
46 JOIN replies r ON c.comment_id = r.comment_id  
47 WHERE c.session_id = 6;
```

Result Grid  Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 					
	comment_id	reply_id	replier_id	reply_content	reply_time_created
▶	16	31	2	The session on learning and memory provided v...	2024-04-11 14:56:16
	16	32	2	The session on learning and memory provided v...	2024-03-25 14:56:16
	17	33	2	The session on learning and memory provided v...	2024-04-12 14:56:16
	17	34	2	The session on learning and memory provided v...	2024-04-02 14:56:16
	18	35	2	The session on learning and memory provided v...	2024-03-19 14:56:16
	18	36	2	The session on learning and memory provided v...	2024-04-05 14:56:16

Resources of a session

```
50 • SELECT resource_id, file
51     FROM resources
52     WHERE session_id = 6;
53
```

Result Grid



Filter Rows:

	resource_id	file
▶	311	BLOB
	312	BLOB
⊙	NULL	NULL