



Classroom App Design

Write Query for Course Detail Screen

Agenda

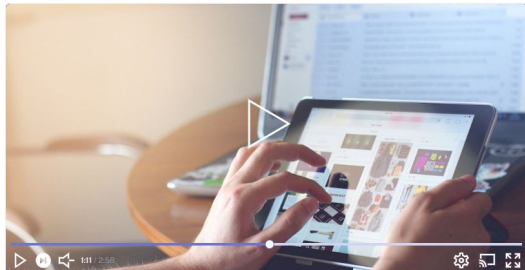
- 1. Database Design related to Course Detail Screen.**
- 2. Sample Data.**
- 3. Query Course Detail Screen.**

1. DataBase Design

My Courses/ In Progress

UI Design, A User - Centered Approach

Klara Weaver | ★ 4.9 (1395 reviews)



Share Save

Sessions

3/12 Completed

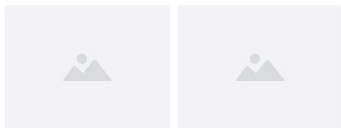
- 01. Consectetur adipiscing elit ✓
- 02. Mollit voluptate adipiscing ✓
- 03. Officia pariatur Lorem sit ✓
- 04. Avoluptate adipiscing ▶
- 05. Exercitation elit incididunt esse
- 06. Deserunt pariatur eiusmod

Summary Discussion (50) Resources & documents Tasks

Jimmy Will 08:10 AM
Velit ipsum magna laboris duis esse aliqua. Pariatur laboris culpa id eu reprehenderit quis nulla culpa aliqua mollit esse aliquip culpa excepteur

Reply

Alisa Grill 08:24 AM
Amet culpa nulla mollit do et nulla sit aliquip occaecat ipsum officia et incididunt anim esse. Ad est deserunt enim pariatur excepteur reprehenderit fugiat quis. Nisi mollit aliquip adipiscing cillum ut proident laboris aliqua anim dolor irure officia ullamco



Reply (12)

Chris Helson Author 09:42 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur

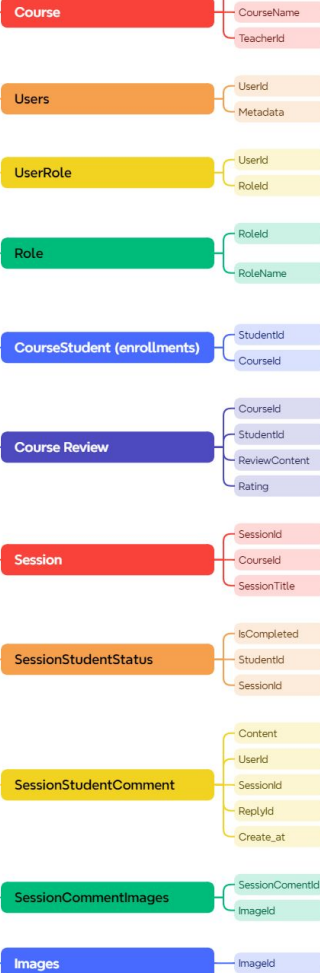
Reply

Green William 08:29 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur minim ex minim est laborum labore. Mollit commodo in do dolor ut in mollit est

Reply

Show more discussion (47)

Course Detail Screen



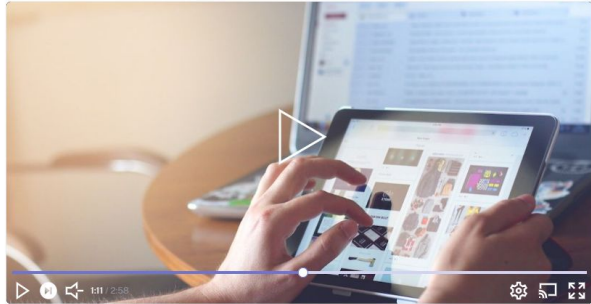
Presented with xmind

1.1 Courses

My Courses/ In Progress

UI Design, A User - Centered Approach

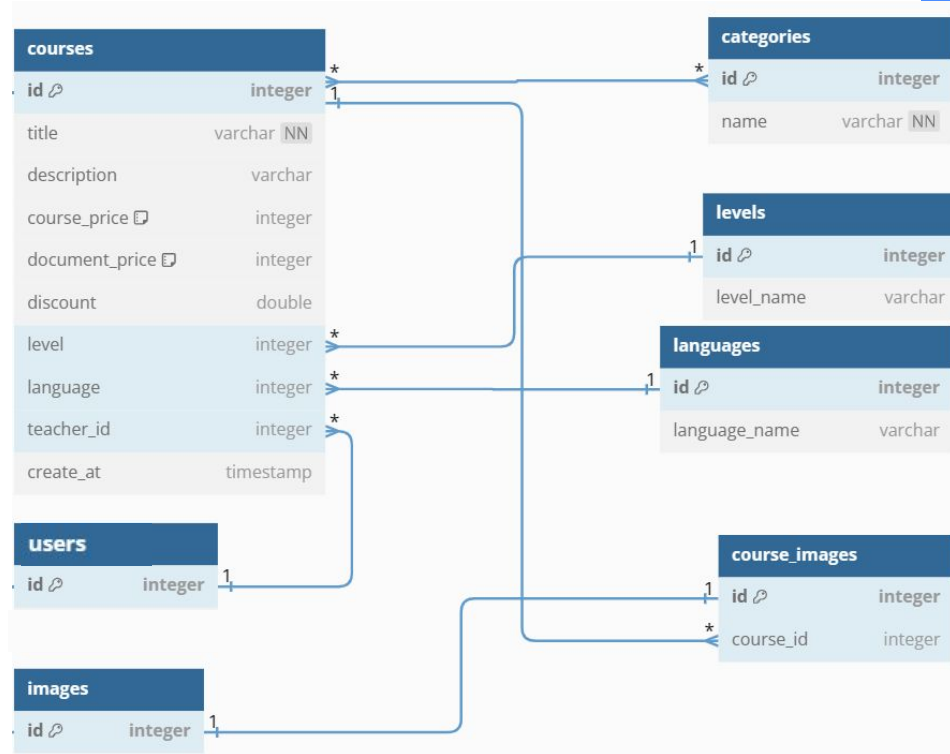
Klara Weaver | ★ 4.9 (1395 reviews)



Sessions

3/12 Completed

- 01. Consectetur adipiscing elit ✓
- 02. Morit voluptate adipiscing ✓
- 03. Officia pariatur Lorem sit ✓
- 04. Voluptate adipiscing ▶
- 05. Exercitation elit incididunt esse
- 06. Deserunt pariatur elusm



1.2 Users - Roles

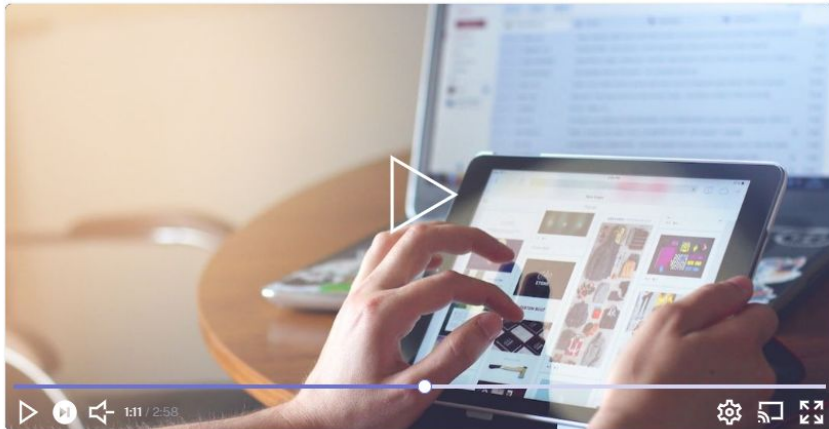


Home [My Courses](#) Promotions Support Dashboard

My Courses/ In Progress

UI Design, A User - Centered Approach

Klara Weaver ★ 4.9 (1395 reviews)



Summary [Discussion \(50\)](#) Resources & documents Tasks

Jimmy Will 03:10 AM

Velit ipsum magna laboris duis esse aliqua. Pariatur laboris culpa id eu reprehenderit quis nulla culpa aliqua mollit esse aliquip culpa excepteur 🤔

👍 Reply



1.3 Course reviews



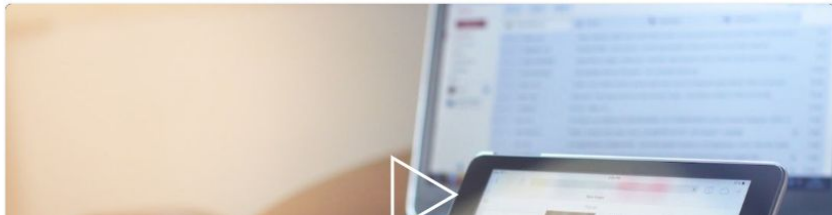
Home **My Courses** Promotions Support Dashboard

My Courses/ In Progress

UI Design, A User - Centered Approach

Klara Weaver

★ 4.9 (1395 reviews)



Buy now

Add to cart

Reviews

★ 4.5 (99 reviews)



Jay Rutherford

Rated 5 12:00 PM

Veniam mollit et veniam ea officia nisi minim fugiat minim consequat dolor pariatur



Jevon Raynor

Rated 5 12:00 PM

Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur minim ex minim est

Show all reviews



Annie Haley

Rated 4.5 12:00 PM

Nostrud excepteur magna id est quis in aliqua consequat. Exercitation enim eiusmod elit sint laborum



Emily Rowley

Rated 5 12:00 PM

Deserunt minim incididunt cillum nostrud do voluptate excepteur

users

id integer

courses

id integer
title varchar NN
description varchar
course_price integer
document_price integer
discount double
level integer
language integer
teacher_id integer
create_at timestamp

course_review

id integer
student_id integer
course_id integer
content varchar
rating integer

1.4 Student's enrollment

My Courses

In progress Completed



Introduction to Generative AI

Professor X

1 - 4 weeks

Go To Course



Introduction to Generative AI

Professor X

1 - 4 weeks

Go To Course

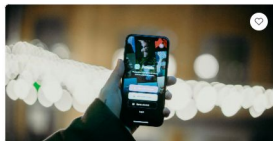


Introduction to Generative AI

Professor X

1 - 4 weeks

Go To Course

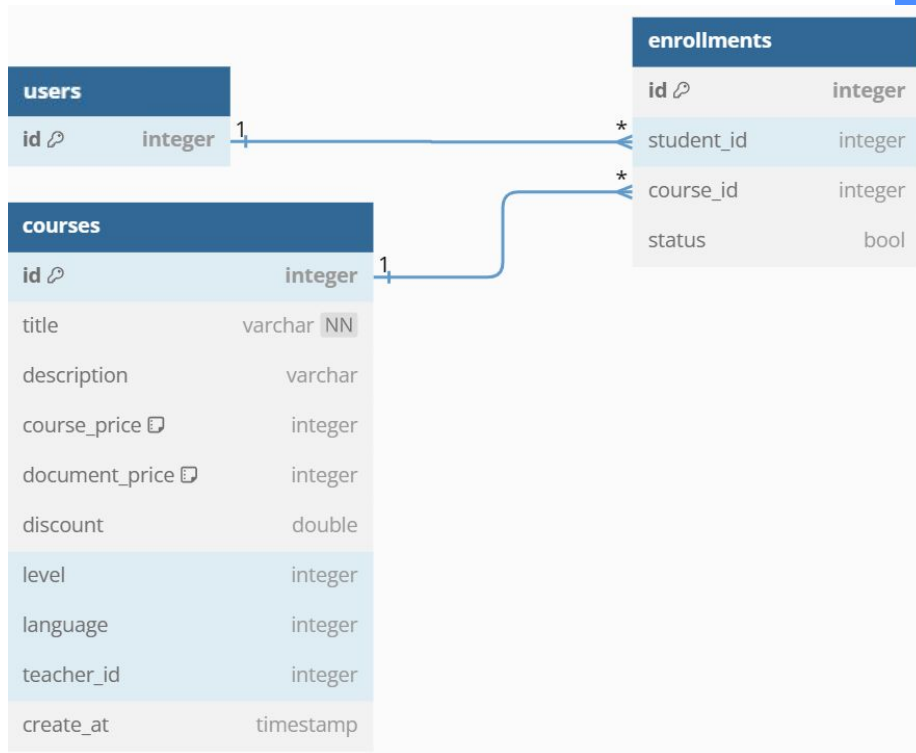


Introduction to Generative AI

Professor X

1 - 4 weeks

Go To Course



1.5 Sessions

ngo

Home My Courses Promotions Support Dashboard

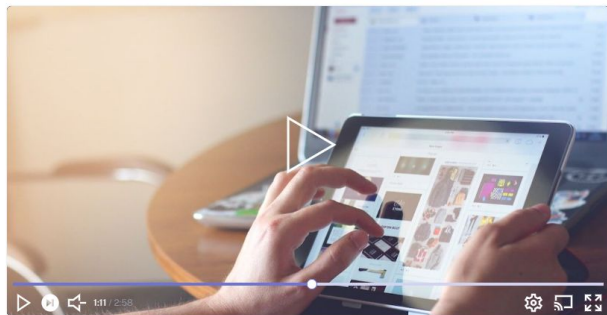
Q Search...



My Courses/ In Progress

UI Design, A User - Centered Approach

Klara Weaver | ★ 4.9 (1395 reviews)



Sessions

3/12 Completed

- 01. Consectetur adipiscing elit ✓
- 02. Mollit voluptate adipiscing ✓
- 03. Officia pariatur Lorem sit ✓
- 04. Avoluptate adipiscing ▷
- 05. Exercitation elit incididunt esse
- 06. Deserunt pariatur eiusmod

users	
id	integer
name	varchar
email	varchar NN
password	varchar NN
phone	varchar
location	integer
created_at	datetime
overview	varchar
profile_link	varchar
title	varchar
avatar_id	integer
onl_status	bit

sessions	
id	integer
title	varchar NN
summary	varchar
start_time	datetime
course_id	integer
record_id	integer
order_index	integer

courses	
id	integer
title	varchar NN
description	varchar
course_price	integer
document_price	integer
discount	float
level	integer
language	integer
teacher_id	integer
create_at	datetime

session_status	
id	integer
session_id	integer
student_id	integer
status_id	integer

session_status_type	
id	integer
status_name	varchar

materials	
id	integer
file_name	varchar NN
size	float
update_at	datetime
session_id	integer

records	
id	integer
file_name	varchar NN
create_at	datetime

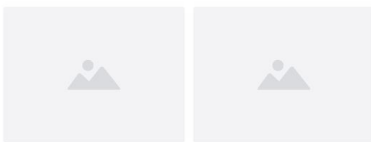
1.6 Session discussion



Summary Discussion (50) Resources & documents Tasks

Jimmy Will 08:10 AM
Velit ipsum magna laboris duis esse aliqua. Pariatur laboris culpa id eu reprehenderit quis nulla culpa aliqua mollit esse aliquip culpa excepteur 🍌
👍 Reply

Alisa Grill 08:24 AM
Amet culpa nulla mollit do et nulla sit aliquip occaecat ipsum officia et incididunt anim esse. Ad est deserunt enim pariatur excepteur reprehenderit fugiat quis. Nisi mollit aliquip adipisicing cillum ut proident laboris aliqua anim dolor irure officia ullamco 🍌



👍 Reply (12)

Chris Helson Author 09:42 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur
👍 Reply

Green William 08:29 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur minim ex minim est laborum labore 🍌. Mollit commodo in do dolor ut in mollit est
👍 Reply

Show more discussion (47)

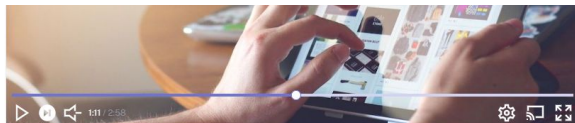
04. Voluptate adipisicing

05. Exercitation elit incididunt esse

06. Deserunt pariatur eiusmod



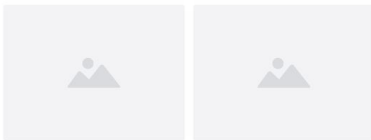
1.6 Session discussion - images



Summary Discussion (50) Resources & documents Tasks

Jimmy Will 08:10 AM
Velit ipsum magna laboris duis esse aliqua. Pariatur laboris culpa id eu reprehenderit quis nulla culpa aliqua mollit esse aliquip culpa excepteur 🍌
👍 Reply

Alisa Grill 08:24 AM
Amet culpa nulla mollit do et nulla sit aliquip occaecat ipsum officia et incididunt anim esse. Ad est deserunt enim pariatur excepteur reprehenderit fugiat quis. Nisi mollit aliquip adipisicing cillum ut proident laboris aliqua anim dolor irure officia ullamco 🍌



👍 Reply (12)

Chris Helson Author 09:42 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur
👍 Reply

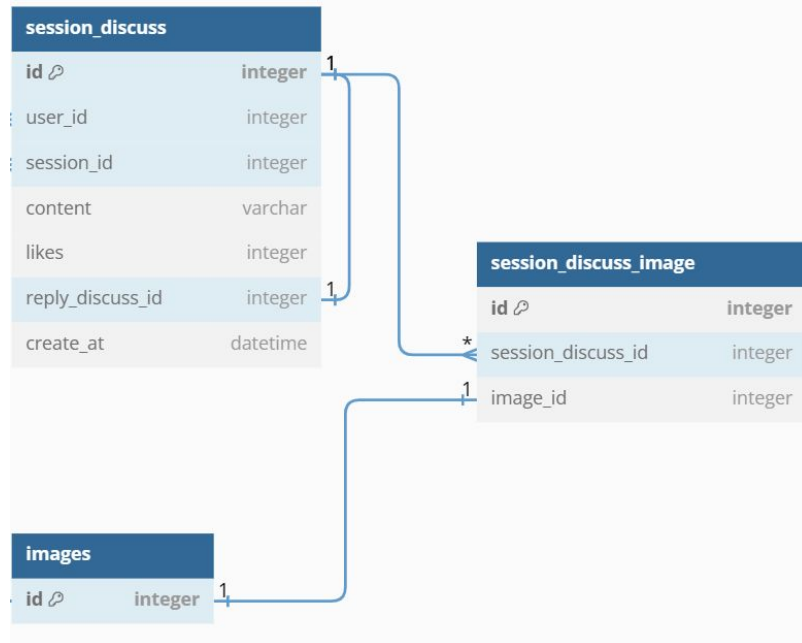
Green William 08:29 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur minim ex minim est laborum labore 🍌. Mollit commodo in do dolor ut in mollit est
👍 Reply

Show more discussion (47)

04. Avoluptate adipisicing

05. Exercitation elit incididunt esse

06. Deserunt pariatur eiusmod



2. Sample data

id	name	email
1	Sarah Jones	sarah.jones@de...
2	Omar Hassan	omar.hassan@...
3	Maria Garcia	maria.garcia@t...
4	Chen Lin	chen.lin@datas...
5	John Smith	john.smith@ex...
6	Emma Johnson	emma.johnson...

Users

id	user...	roleid
1	1	1
2	2	1
3	3	2
4	4	2
5	5	2
6	6	2

User_Role

id	role_name
1	Teacher
2	Student

Roles

id	student_id	course_id
1	3	1
2	4	2
3	5	1
4	6	1

Enrollments

id	title	description	course_price	document_price	discount	level	language	teacher_id
1	Web Development 101	Introduction to ...	50	10	0.2	1	1	1
2	Data Science Fundamentals	Introduction to ...	75	15	0.1	2	1	2

Course

id	student_id	course_id	content	rating
1	3	1	Great course highly recommended!	5
2	6	1	Eyes opening course!	4
3	4	2	The content was informative but could be more engaging.	3

Course_Review

2. Sample data

id	title	summary	start_time	course_id	record_id	order_index
1	Introduction to HTML	Learn the basic...	2022-01-10 09:0...	1	1	1
2	CSS Styling Techniques	Explore differen...	2022-01-12 09:0...	1	2	2
3	JavaScript Fundamentals	JavaScript Fund...	2022-01-14 09:0...	1	3	3
4	Introduction to Python	Get started with...	2022-01-11 09:0...	2	4	1
5	Data Analysis with Pandas	Learn how to a...	2022-01-13 09:0...	2	5	2
6	Machine Learning Algorithms	Machine Learni...	2022-01-15 09:0...	2	6	3

Sessions

id	status_name
1	Completed
2	Inprogress
3	NotStart

session_status_type

id	user_id	session_id	content	likes	reply_discuss_id	create_at
1	3	1	How can I learn Web Development effectively?	10	NULL	2022-01-05 09:00:00.000
2	1	1	You need to study the basics and practice regularly.	5	1	2022-01-05 10:00:00.000

session_discuss

id	session_id	student_id	status_id	create_at	update_at
1	1	3	1	2022-01-05 09:00:00.000	2022-01-05 10:00:00.000
2	2	3	2	2022-01-05 11:00:00.000	2022-01-05 12:00:00.000
3	3	3	3	2022-01-05 09:30:00.000	2022-01-05 09:30:00.000
4	4	4	1	2022-01-05 09:30:00.000	2022-01-05 09:30:00.000
5	5	4	1	2022-01-05 10:00:00.000	2022-01-05 10:00:00.000
6	6	4	3	2022-01-05 11:00:00.000	2022-01-05 11:00:00.000
7	1	5	1	2022-02-05 09:00:00.000	2022-02-05 09:00:00.000
8	2	5	1	2022-03-05 09:30:00.000	2022-03-05 09:30:00.000
9	3	5	1	2022-04-05 09:00:00.000	2022-04-05 09:00:00.000
10	1	6	3	2022-05-05 09:00:00.000	2022-05-05 09:00:00.000

session_status

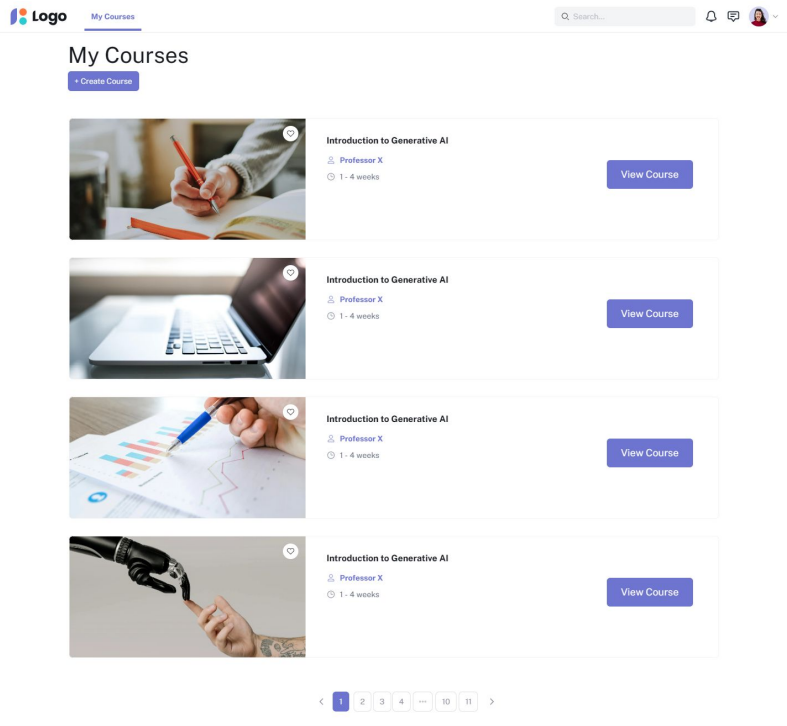
id	session_discuss_id	image_id
1	1	1
2	1	2
3	2	3

session_discuss_image

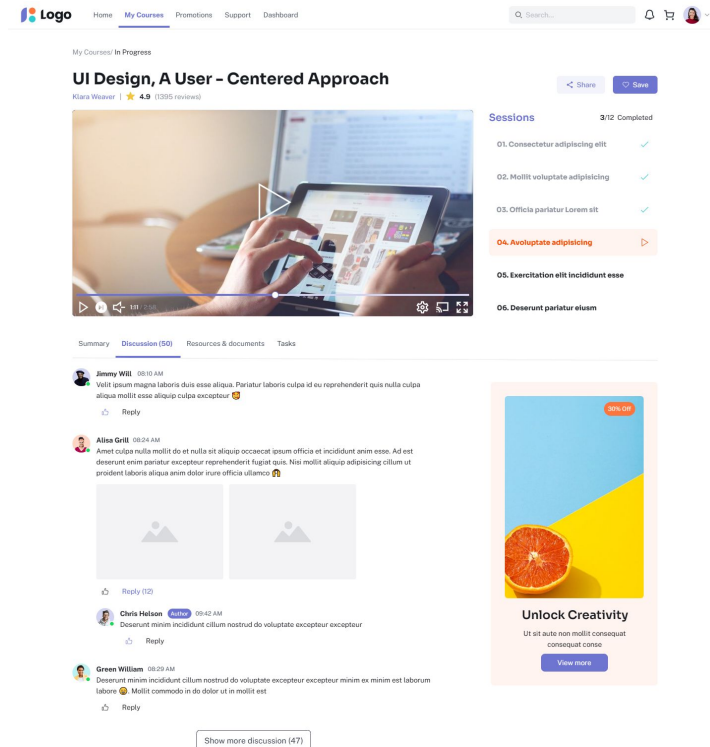
id	image_path
1	pic1.png
2	pic2.png
3	pic3.png

images

3. Query Course Detail Screen.



My Course Screen of Student
(UserId = 3)



Student (UserId = 3) open Course Detail
Screen of course (CourseId = 1)

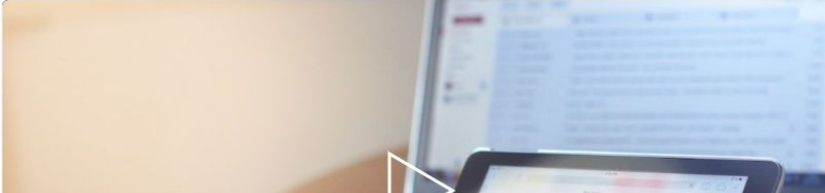
3.1 Query Course_name, teacher_name, course_review.

ngo Home **My Courses** Promotions Support Dashboard

My Courses/ In Progress

UI Design, A User – Centered Approach

Klara Weaver | ★ 4.9 (1395 reviews)

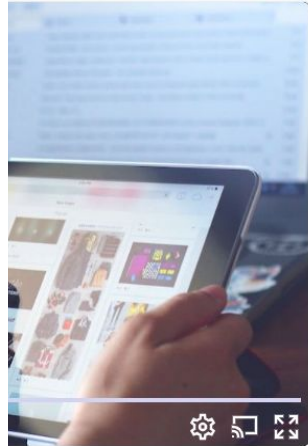


```
Select  c.title, u.name as teacher_name,  
        AVG(Cast(cr.rating as Float)) as Avg_rating,  
        COUNT(*) as Num_reviews  
  
From    courses c  
        join users u on c.teacher_id = u.id  
        join course_review cr on c.id = cr.course_id  
  
Where   c.id = 1  
Group by c.title, u.name;
```

Results		Messages		
	title	teacher_name	Avg_rating	Num_reviews
1	Web Development 101	Sarah Jones	4.5	2

3.2 Total sessions, total completed sessions.

proach



[Share](#) [Save](#)

Sessions 3/12 Completed

- 01. Consectetur adipiscing elit ✓
- 02. Mollit voluptate adipiscing ✓
- 03. Officia pariatur Lorem sit ✓
- 04. Avoluptate adipiscing ▶
- 05. Exercitation elit incididunt esse
- 06. Deserunt pariatur eiusmod

```
Select Count(*) as Total_sessions
From sessions ss join courses c on ss.course_id = c.id
where c.id = 1;
```

```
Select Count(*) as Completed_num
From sessions ss join courses c on ss.course_id = c.id
join session_status sst on ss.id = sst.session_id
where c.id = 1 and sst.student_id = 3 and sst.status_id = 1;
```

Total_sessions	
1	3

Completed_num	
1	1

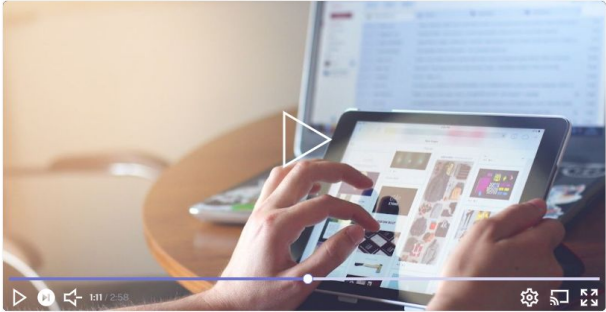
3.3 Sessions and session's status.

Logo Home My Courses Promotions Support Dashboard

My Courses/ In Progress

UI Design, A User - Centered Approach

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Sessions 3/12 Completed

- 01. Consectetur adipiscing elit ✓
- 02. Mollit voluptate adipiscing ✓
- 03. Officia pariatur Lorem sit ✓
- 04. Avoluptate adipiscing ▶
- 05. Exercitation elit Incidunt esse
- 06. Deserunt pariatur eiusmod

Summary Resources (54) Resources & documents Tests

```
Select ss.order_index as order_id,
ss.title as session_title,
sstype.status_name as status,
sst.update_at as last_modify
From session_status sst
join sessions ss on sst.session_id = ss.id
join session_status_type sstype on sst.status_id = sstype.id
where ss.course_id = 1 and sst.student_id = 3;
```

	order_id	session_title	status	last_modify
1	1	Introduction to HTML	Completed	2022-01-05 10:00:00.000
2	2	CSS Styling Techniques	Inprogress	2022-01-05 12:00:00.000
3	3	JavaScript Fundamentals	NotStart	2022-01-05 09:30:00.000

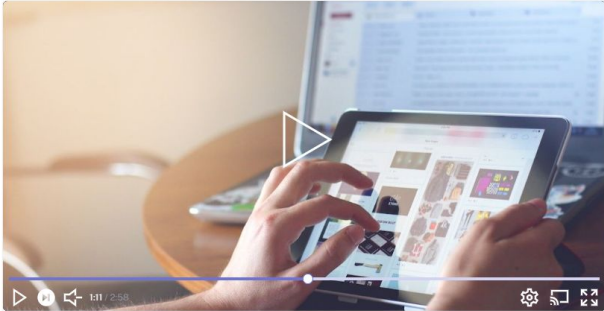
3.4 Current session.

Logo Home My Courses Promotions Support Dashboard

My Courses/ In Progress

UI Design, A User - Centered Approach

Klara Weaver | ★ 4.9 (1395 reviews)



Sessions 3/12 Completed

- 01. Consectetur adipiscing elit ✓
- 02. Mollit voluptate adipiscing ✓
- 03. Officia pariatur Lorem sit ✓
- 04. Avoluptate adipiscing ▶**
- 05. Exercitation elit incididunt esse
- 06. Deserunt pariatur eiusmod

Summary Resources (54) Resources & documents Tests

Select Top 1

```
ss.order_index as order_id,  
ss.title as session_title,  
sstype.status_name as status,  
sst.update_at as last_modify
```

From

```
session_status sst  
join sessions ss on sst.session_id = ss.id  
join session_status_type sstype on sst.status_id = sstype.id
```

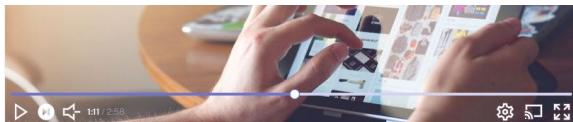
where ss.course_id = 1 and sst.student_id = 3

Order By sst.update_at DESC;

	order_id	session_title	status	last_modify
1	2	CSS Styling Techniques	Inprogress	2022-01-05 12:00:00.000

3.5 Total of discussion, discussion list.

Scenario: Student (**student_id = 3**) click to view detail of session (**session_id = 1**) of course (**course_id = 1**).

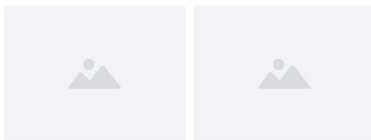


Summary Discussion (50) Resources & documents Tasks

Jimmy Will 08:10 AM
Velit ipsum magna laboris duis esse aliqua. Pariatur laboris culpa id eu reprehenderit quis nulla culpa aliqua mollit esse aliquip culpa excepteur 🍌

👍 Reply

Alisa Grill 08:24 AM
Amet culpa nulla mollit do et nulla sit aliquip occaecat ipsum officia et incididunt anim esse. Ad deserunt enim pariatur excepteur reprehenderit fugiat quis. Nisi mollit aliquip adipiscing cillum ut proident laboris aliqua anim dolor irure officia ullamco 🍌



👍 Reply (12)

Chris Helson **Author** 09:42 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur

👍 Reply

Green William 08:29 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur minim ex minim est laborum labore 🍌. Mollit commodo in do dolor ut in mollit est

👍 Reply

Show more discussion (47)

04. Avoluptate adipiscing

05. Exercitation elit incididunt esse

06. Deserunt pariatur elusm



Unlock Creativity

Ut sit aute non mollit consequat consequat conse

View more

```
Select Count(*) as Total_discussion
From session_discuss ssd
Where ssd.session_id = 1;
```

```
Select u.name, ssd.content, ssd.likes, ssd.reply_discuss_id
From session_discuss ssd join users u on ssd.user_id = u.id
Where ssd.session_id = 1;
```

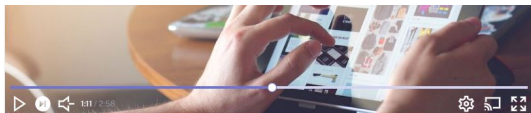
Results Messages

Total_discussion				
1	2			

	name	content	likes	reply_discuss_id
1	Maria Garcia	How can I learn Web Development effectively?	10	NULL
2	Sarah Jones	You need to study the basics and practice regularly.	5	1

3.6 Attached images

Scenario: Student (**student_id = 3**) click to view discussion of session (**session_id = 1**) of course (**course_id = 1**).



- 04. Avoluptate adipiscing >
- 05. Exercitation elit incididunt esse
- 06. Deserunt pariatur eiusmod

Summary Discussion (50) Resources & documents Tasks

Jimmy Will 08:10 AM
Velit ipsum magna laboris dui esse aliqua. Pariatur laboris culpa id eu reprehenderit quis nulla culpa aliqua mollit esse aliquip culpa excepteur 🤖

Reply

Alisa Grill 08:24 AM
Amet culpa nulla mollit do et nulla sit aliquip occaecat ipsum officia et incididunt anim esse. Ad est deserunt enim pariatur excepteur reprehenderit fugiat quis. Nisi mollit aliquip adipiscing cillum ut proident laboris aliqua anim dolor inure officia utlance 🤖



Reply (12)

Chris Helson Author 09:42 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur

Reply

Green William 08:29 AM
Deserunt minim incididunt cillum nostrud do voluptate excepteur excepteur minim ex minim est laborum labore 🤖. Mollit commodo in do dolor ut in mollit est

Reply

Show more discussion (47)



Select `ssd.id as discuss_id, img.image_path as img_path`
From `session_discuss ssd`
`join session_discuss_image ssdi on ssd.id = ssdi.session_discuss_id`
`join images img on ssdi.image_id = img.id`
where `ssd.session_id = 1;`

	discuss_id	img_path
1	1	pic1.png
2	1	pic2.png
3	2	pic3.png