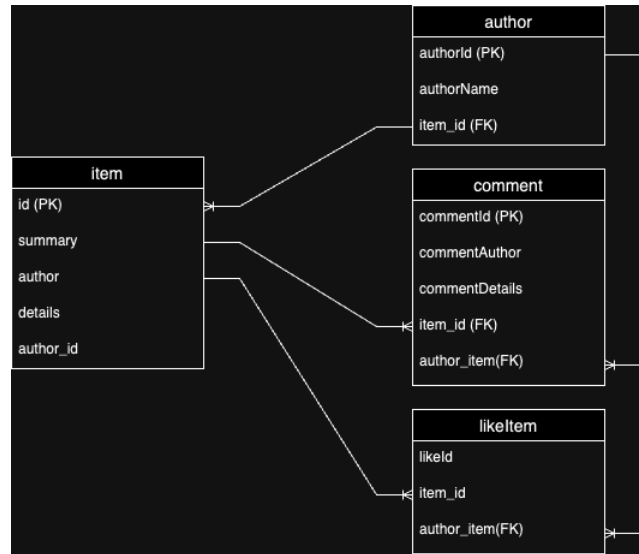


Asssignment 1 - 2703ICT

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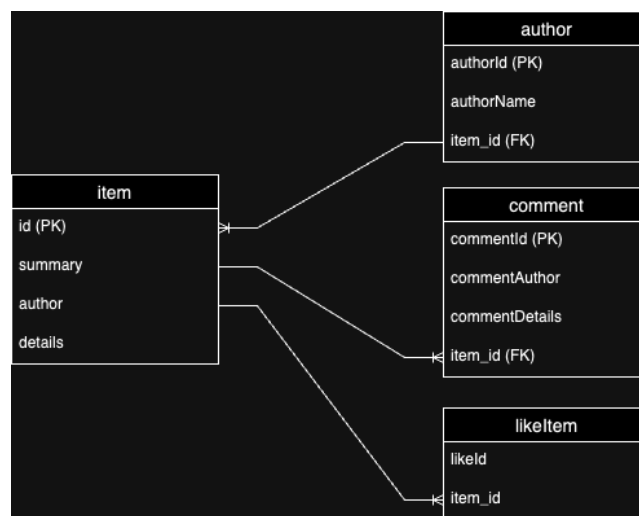
An ER diagram for the database.

The ER diagram that was first conceived



The ER diagram that was initially conceived centered around the author table, and one user can have multiple post items, comments, and likes, and one post item can have multiple comments and likes by passing the item_id (FK). However, during the course of the assignment, various problems arose, and I ended up creating a different ER diagram.

ER diagram changed due to problem that could not be solved



The ER diagram currently in use is not perfect. First of all, one author can have multiple items. Afterwards, the item can have multiple comments and likes by passing the item_id (FK). But unfortunately, it failed to connect to the author.

Describe what I was able to complete, what I was not able to complete.

able to complete

- Database implementation

I put in foreign keys, primary keys, properties and property types, and placed the SQL definition file correctly, including dropping and creating tables. It also inserts initial data suitable for testing.

```
drop table if exists item;
create table item (
  id integer not null primary key autoincrement,
  summary varchar(80) not null,
  author text default '',
  details text default '',
  itemDate date DATETIME DEFAULT CURRENT_TIMESTAMP
);

drop table if exists author;
create table author (
  authorId integer not null primary key,
  authorName text default '',
  item_id integer not null,
  commentDate date DATETIME DEFAULT CURRENT_TIMESTAMP
);
insert into author(authorID, authorName, item_id) values(null, (select author from item group by author), (select group_concat(summary,

drop table if exists comment;
create table comment (
  commentId integer not null primary key autoincrement,
  commentAuthor text default '',
  commentDetails message text default '',
  commentDate date DATETIME DEFAULT CURRENT_TIMESTAMP,
  item_id integer not null,
  Foreign Key (item_id) REFERENCES item (id)
);
insert into comment (commentId, commentAuthor, commentDetails, item_id) values(null, "Admin", "Excellent modern full-frame", 1);

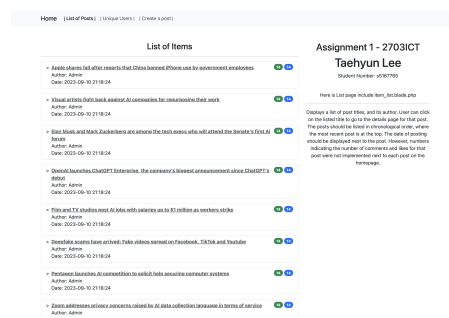
drop table if exists likeItem;
create table likeItem (
  likeId integer not null primary key autoincrement,
  item_id integer not null,
  Foreign Key (item_id) REFERENCES item (id)
);
```

- UI Design

I tried to make it easy to use and professionally presented in my style. I designated an area using Bootstrap and covered the list with the card function.

- Home page

Posts in the list display a list of titles and authors. Users can click on a listed title to go to that post's detail page. Additionally, an area is provided on the right side to include an explanation.



- Details page

Displays all information about that post, including all comments on that post. A post includes its title, author, message, date, and comments. Comments include author, message, date, and linking them to a post has not been resolved.

Item Detail

Date: 2023-09-10 21:18:24

How a California vote on self-driving taxis could alter the future of AI

Author: Admin

SAN FRANCISCO — A California state board is set to vote Aug. 10 on whether to allow tech companies Waymo and Cruise to launch a massive expansion of driverless taxi fleets in San Francisco, but the stakes are far bigger than local politics. The scheduled vote by the California Public Utilities Commission (CPUC) is shaping up as a referendum on an array of issues related to technology, including the politics of artificial intelligence and the human workforce affected by the technology's rapid development. If the commission agrees, hundreds of self-driving taxis could soon be available for hire by the general public, all day every day. Tech executives, labor unions, transit advocates, city officials and robotaxi customers are all engaged in furious last-minute lobbying to try to sway the board's five appointed members — setting the stage for what promises to be a state-by-state battle over self-driving cars and trucks. "This is going to be the only chance for CPUC to get this right," said Mike Di Bene, a local truck driver and member of the Teamsters, one of the unions that's asking the state to pump the brakes on self-driving vehicles, which include taxis and big-rig trucks. Self-driving taxis have become the latest flashpoint for conflict in San Francisco between the city's wealthy, assertive technologists and the anti-corporate, progressive coalition that has a deep influence on local politics.

Like

Update Item

Delete Item

Comment

Author

Type Author Here

Comment

reply

- Create post
- The homepage has a form where users can create posts. You can create a post by entering the title, author, and message. Once the new post is successfully created, the user will be redirected back to the home page.

Create Item

Summary

Type Summary Here

Author

Type Author Here

Details

Create Item

- Edit post
- Users can only edit the title and message of the post. When a post is edited, the details page for that post is displayed.

Update Item

Summary

Apple shares fall after reports that China banned iPhone use by government employees

Details

Apple shares fell about 3% on Thursday, following a 4% decline on Wednesday, after several reports suggesting that Chinese government workers could be banned from using iPhones.

Update Item

- Delete Post
- Users can delete posts. When a user deletes a post, the id (PK) of that post is deleted. Therefore, the entire data table for that item is deleted.

Like

Update Item

Delete Item

- Chronological order

On the homepage, posts are listed in chronological order. This means that your most recent posts will appear at the top. The publication date appears next to the post.

```
$sql = "select * from item order by itemDate DESC";
```

- Input validation

An appropriate error message will be displayed for incorrect input in the post. It appears as a die() message.

```
if ($summary<$min) {  
    die("Error: Post title need to have at least 3 characters.");  
} else if (!preg_match("/^[a-zA-Z-']*$/", $author)) {  
    die("Error: Author name must not have numeric characters.");  
} else if ($details<$word) {  
    die("Error: Message must have at least 5 words.");  
} else if ($id) {  
    return redirect(url("item_detail/$id"));  
} else {  
    die("Error while adding item.");  
}
```

- Unique users

I have a page that lists unique users who created posts. When I clicked on a user, all posts written by that user could not be displayed. Therefore I displayed them all at once on the Unique Users page.

```
$sql = "insert into author values(null, (select author from item group by author),(select group_concat(summary, ' ' ) from item where a
```

- Security

The random string in the value attribute is a CSRF token. Using this CSRF token, only your site can receive POST requests. On the other hand, session-based authentication is believed to be exposed to CSRF attacks because cookies (authentication information) are automatically included if the user is logged in when making a request.

```
{{csrf_field()}}
```

- Template Inheritance

Code was placed correctly within the master layout. This template does not have PHP. Every blade.php file has a master layout.

```
@extends('layouts.master')  
  
@section('title')  
  
@endsection  
  
@section('content')  
  
@endsection
```

not able to complete

- How many comments

I was not able to implement a number next to each post on the homepage indicating the number of comments on that post.

- Remember the users name

After a user makes one post or comment, the session system needs to remember the user's name, but I couldn't implement it.

- Reply to comment

Users cannot reply to comments. It should be clear to which post or comment the comment is responding, but I couldn't figure out how to display the reply.

- Like

Users cannot like posts. To like a post, the user has to click Like and enter their name, but we haven't been able to leverage the author data table. That's why you can't see the number of likes for a post next to that post.

Reflect on the process I have applied to develop my solution, and what changes I make for assignment 2 to improve my process.

I started planning by creating an ER diagram. Afterwards, I tried to utilize past lectures. At first, I wanted to connect all tables centered on the author database table, but it didn't work out as I thought. Therefore, I was able to always use the `dd()` function in `web.php` to test the code every now and then to check whether the data was entered properly. This Assignment 1 cannot be said to be successful, but it was an opportunity to learn a lot about the basics of PHP/Laravel, which used to be difficult. In order to cover the problems of this assignment in Assignment 2, I think we need to make good use of routes and controllers. What is certain is that I have a clear understanding of web CRUD functions and have become familiar with Bootstrap.