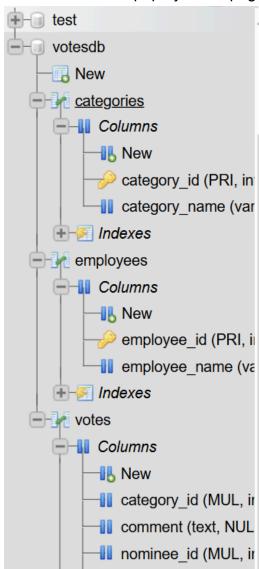
Employee Voting System by Category

To make the app possible, I started by using XAMPP to generate an Apache server and MySQL DB on /phpmyadmin.

For the project environment, I initialized the entirety of the project on a folder called votingAppAssignment that must be stored within the **htdocs** located in the XAMPP directory.

Tables and necessary queries

For the app function we need to have 3 tables that store necessary data which will help us sum up the winner of each category. I stored these 3 tables in a database that I initialized in /phpmyadmin page.



Firstly - we have a table for the **employees** which stores an employee ID and the name for the employee.

CREATE TABLE employees (employee_id INT AUTO_INCREMENT PRIMARY KEY, employee_name VARCHAR(100) NOT NULL);

$\leftarrow T$	→		~	employee_name	employee_id
	Edit	≩ сору	Delete	John	5
		≩ Copy	Delete	James	6
	Edit	≩ Copy	Delete	Kate	7
	Edit	≩ Copy	Delete	Jimmy	8
	Edit	≩ Сору	Delete	Sarah	9
		≩ Copy	Delete	Tim	10

Adding employees into the table INSERT INTO employees(employee_name) VALUES ('John'), ('James'), ('Kate'), ('Jimmy'), ('Sarah'), ('Tim);

The ID for each employee is auto-incremented and thus assigned automatically.

Then there is the **categories** table which stores only 4 values which are used to store the possible categories for voting.

CREATE TABLE categories (category_id INT AUTO_INCREMENT PRIMARY KEY, category_name VARCHAR(100) NOT NULL UNIQUE);

$\leftarrow T$	\rightarrow		∇	category_name	category_id
	Edit	≩ Copy	Delete	Makes Work Fun	1
	Edit	≩ Copy	Delete	Team Player	2
	Edit	≩ € Copy	Delete	Culture Champion	3
		≩ € Copy	Delete	Difference Maker	4

INSERT INTO categories (category_name)
VALUES ('Makes Work Fun'), ('Team Player'), ('Culture Champion'), ('Difference Maker');

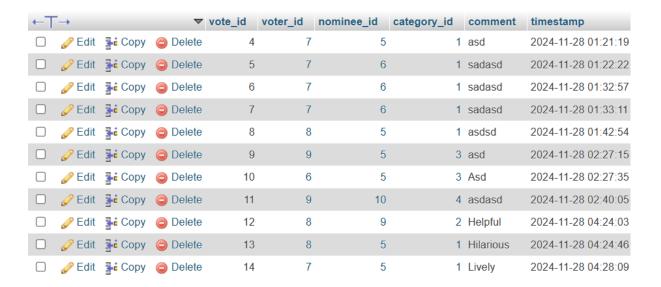
Lastly, we have the table for the **votes** which will have 3 foreign keys that connect it to the categories table and the employee table.

CREATE TABLE votes (vote_id INT AUTO_INCREMENT PRIMARY KEY, voter_id INT, nominee_id INT, category_id INT, comment TEXT, timestamp TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

FOREIGN KEY (voter id) REFERENCES employees(employee id),

FOREIGN KEY (nominee id) REFERENCES employees(employee id),

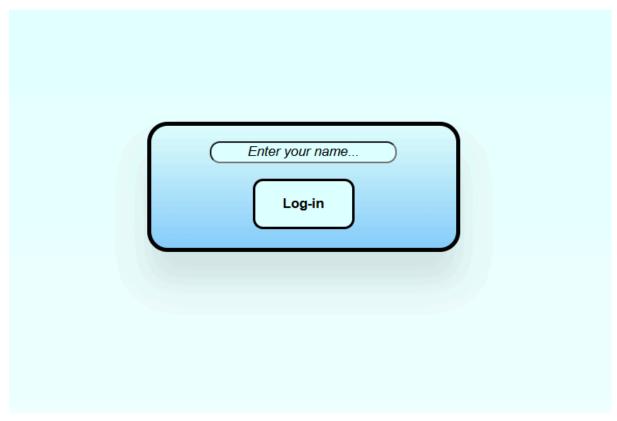
FOREIGN KEY (category id) REFERENCES categories(category id));



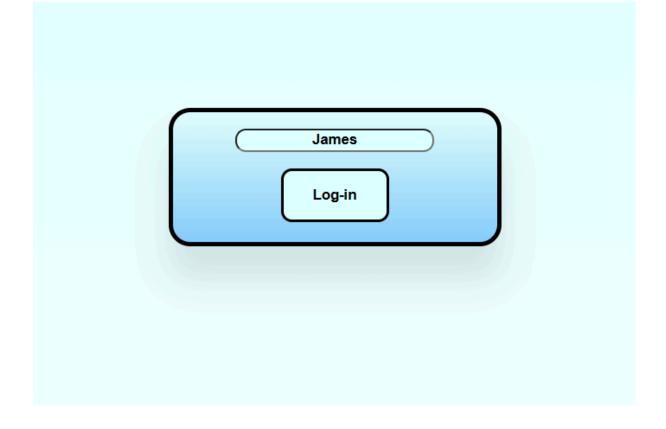
PHP code

Firstly, I created a Database connection script that would allow me to establish a connection between my code and the database.

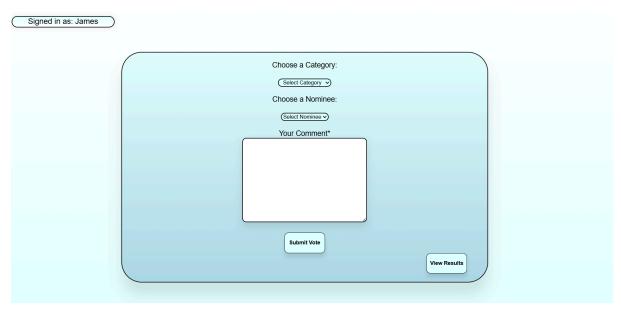
To get user credentials - we need to make sure that they are valid, this is done with a **log-in** feature where a session is started and the employee name written from input is checked and validated to see if there are any matches in the database.



Login.php



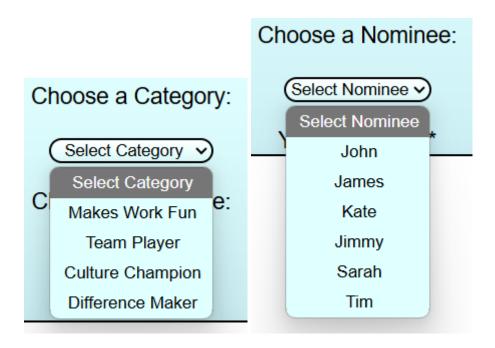
NOTE It's important that the session employee_id is stored and differentiated, this is to avoid any self voting.



Votingpage.php

By logging in - we are redirected into the voting page. As we can see, the current session ID is stored as displayed by the "Signed in as: " element.

With this UI we are allowed to pick between the categories and nominees which are options that have been populated in the HTML using the data from our categories and employees table.



The text area at the end is mandatory and the user must write a comment to make sure their vote is legitimate.

Vote submitted!

Signed in as: James

If the vote is validated and passes through - we get a notification that lets us know it has been submitted.

We can then use the View Results button on the voting page to access a UI that displays the winner of each category - along with their vote count.

Category	Winner	Votes
Makes Work Fun	John	5
Team Player	Sarah	1
Culture Champion	John	2
Difference Maker	Tim	1