Lab 5 (in pair) DB intro

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Group Category

AssignmentPairs

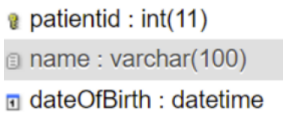
Group Name

U4

Instructions

Using two different origins like the previous lab, write a server side script to create a DB with one table in MySQL or MarinaDB to store patients' info and also to accept SQL queries on that table via http POST request to INSERT data or read via SELECT statements .

Your DB schema could follow the ERD below (patient)



At the time of creation of the table use `Engine=innoDB.`

Your nodejs script creates such table (above) everytime they don't exist

Server1, index.html (origin 1)

A.

A button to insert the following rows via POST request, every time pressed

```
'Sara Brown', '1901-01-01'),
'John Smith', '1941-01-01'),
'Jack Ma', '1961-01-30'),
'Elon Musk', '1999-01-01');
```

If the user presses the button multiple times, your app shall generate those rows multiple times and your table grows. The client displays a response from the server too

B.

A textarea to accept a query and a submit button to send that query onto the server via POST (if we are inserting) and via GET (if we are reading). To perform read from DB or insert into those tables. Then the client displays the response received from the server.

Your client code needs to distinguish if it has to be sent via POST or GET

For simplicity queries are limited to SELECT or INSERT type of queries (no update or drop are allowed)

On your server side you need to take care of these privileges correctly so that doing update or drop is fully blocked

Server2, node js code (origin 2)

Responds to the POST or GET requests as appropriate (in this lab you are not allowed to use express or anything for routing, but for DB you can use any modules)

Deliverables

Submit Cancel

Deliverables:

1. All of the server1 code in a folder named server1, all of the server2 code in a folder named server2. Copy both folders in a folder named YourTeam#Lab5 (e.g D3Lab5) and zip it as YourTeam#Lab5.zip and upload to learning Hub

At the learning hub comment section:

2. Post URLs of the hosted application at the comment section of learning hub

2.1 the url(s) of the client hosted at server1

2.2 the url of the API server hosted on the server2 with a sample GET SQL request as follows: YourDomain.xyz/…lab5/api/v1/sql/"select * from patient" (encode the whole url correctly so that clicking on in runs it correctly)

Entering this in browser address bar shall return all rows of your patient table

3. include Attribution to chatGPT if you used* (or any other resources, provided their license permits you)

Rubrics:

8/10 for working and bug free application

- 6 for the server side
- 2 for the client side

1/10 Working home page (with the two buttons and one text area)

Deduction rubrics

-3 if your server accepts requests such as drop or delete (so the user cannot drop a table and cannot delete a row)

-3 mark will be deducted if URLs are not posted correctly and hyperlinked at comment section of your learning hub submission) (you need to include https and press space bar when you post your url)

(-4) if the part client and server are from the same origin (e.g. if are hosted on the same server) (if you don't have a teammate, please find a free service to host the client side (server1) as it is all static files and you don't need a DB or backend scripting; remember it has to have https)

(-4) if you use JQuery or other libraries/modules not allowed in your program (express or any routing modules not allowed but yo ucan use any module for your DB)

10% mark deduction for each day late submission (0 after three days late submission)

-2 if you use var for variable declaration

-2 if you do not separately store the user strings at the top of your code or in a separate file

-2 for every question asked about your project code while marking your assignment in-person. Even if its your partner's code, you still need to know it

-4 if you are not accompanying your partner in-person while your lab being marked

Needless to mention, any other deduction will be decided while marking

***chatGPT**

as already mentioned in the course outline, using chatGPT is fine but you need to

1- mention that in BOTH your code comment and the learning hub comment . e.g. ChatGPT-3.5 (https://chat.openai.com/) was used to code solutions presented in this

assignment. otherwise would be treated as Academic Dishonesty
2- you have to be familiar with every single line of the code)
3- you take full responsibility of the work you submitted

Due on Mar 10, 2024 11:59 PM

Available on Feb 12, 2024 8:30 AM. **Access restricted before availability starts.**

Submit Assignment

Files to submit *

(0) file(s) to submit

After uploading, you must click Submit to complete the submission.

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Comments