



CS 432 - DATABASES | ASSIGNMENT 3

MESS MANAGEMENT - Implementing a Web App using MySQL

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GROUP MEMBERS

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Github Link:

<https://github.com/Harshit-Ramolia/Mess-managment-frontend/>

1. Responsibility of G1

The responsibility of the G1 group was to design the front end and beautify it. Attached here are a few screenshots of the front end and various application interfaces that would be visible to the user.

/messes

Mess Id	Mess Name	No. of Student	Num of Employee	DETAIL
1	jaiswal	4	3	DETAIL
2	mohani	4	3	DETAIL
3	hetchin	4	3	DETAIL

/students

Roll Number	Name	Email	Gender	Mess	Edit	Delete
19110100	S_N_0	S_Em_0@gmail.com	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		
19110104	S_N_4	S_Em_4@gmail.com	male	mohani		
19110105	S_N_5	S_Em_5@gmail.com	female	mohani		
19110106	S_N_6	S_Em_6@gmail.com	male	mohani		

We implemented the frontend using “react.js” and “Axios” for the POST request.

2. Responsibility of G2

The responsibility of the G2 group was to integrate MySQL in WebApp. Attached here are a few screenshots of the front end and various application interfaces that would be visible to the user.

GitHub Link for the Backend Code:

<https://github.com/Harshit-Ramolia/Mess-managment-frontend/tree/master/Backend>

For the backend we used the flask and REST api. List os API we used are

Get requests

- /api/messes
This api gives the list of all messes with details like their id, mess name, number of employees and number of students.
- /api/student
This api gives a list of all the students with their details who are enrolled in all the messes.
If we add a query string ?mess_id = {mess_id} in front of this api it will return the students of that mess only.
- /api/students/delete?roll_no={roll_no}
This api will delete the details of the student in the database with a given roll number. Note that it is necessary to pass the query string with roll_no in it since it is a primary key

Post requests

- /api/students/update
The body of the request must contain key roll_no as it identifies a particular student. We can also have keys mess_id, name, email, password and gender.
- /api/students/add
The body of the request must contain all the keys roll_no, mess_id, name, email, password and gender with particular values.

3. Responsibility of G1 and G2

a. Database of the desired logical schema on the web page

List of Messes

Mess Id	Mess Name	No. of Student	Num of Employee	DETAIL
1	jaiswal	5	3	DETAIL
2	mohani	4	3	DETAIL
3	hetchin	4	4	DETAIL

List of all Students

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal		
19110100	S_N_0	S_Em_0@gmail.com	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		
19110104	S_N_4	S_Em_4@gmail.com	male	mohani		
19110105	S_N_5	S_Em_5@gmail.com	female	mohani		

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal		
19110100	S_N_0	S_Em_0@gmail.com	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		
19110104	S_N_4	S_Em_4@gmail.com	male	mohani		
19110105	S_N_5	S_Em_5@gmail.com	female	mohani		

b. Implementation of the tasks assigned (Dynamic execution of the following functions)

i. INSERT

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal		
19110100	S_N_0	S_Em_0@gmail.com	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

[ADD NEW STUDENT](#)

LIST OF MESSES	LIST OF STUDENTS
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Roll Number :	<input type="text"/>
Name :	<input type="text"/>
Email :	<input type="text"/>
Gender :	<input type="text"/>
Mess_id :	<input type="text"/>
<input style="background-color: #007bff; color: white; border: none; padding: 5px 10px; border-radius: 5px; margin-right: 10px;" type="button" value="SUBIT"/> <input style="border: none; padding: 5px 10px; border-radius: 5px;" type="button" value="CANCLE"/>	

We have inserted new student with roll number = 123123, name = asdf, email = a@a.a, gender= male and mess = jaiswal is added

Students in jaiswal Mess

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal		
123123	asdf	a@a.a	male	jaiswal		
19110100	S_N_0	S_Em_0@gmail.com	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

[ADD NEW STUDENT](#)

ii. UPDATE

The edit symbol  allows us to edit any particular entry.

Before Update :

LIST OF MESSES	LIST OF STUDENTS	Logged In as Employee LOGOUT
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Students in jaiswal Mess						
Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@itgn.ac.in	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

[ADD NEW STUDENT](#)

Updating the Name of student having roll number - 19110101

After Update :

LIST OF MESSES	LIST OF STUDENTS	Logged In as Employee LOGOUT
--------------------------------	----------------------------------	--

Students in jaiswal Mess						
Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@itgn.ac.in	male	jaiswal		
19110101	after update	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

[ADD NEW STUDENT](#)

iii. DELETE

The delete symbol  allows us to delete a particular entry.

Before deleting :

Students in jaiswal Mess

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal		
123123	asdf	a@a.a	male	jaiswal		
19110100	S_N_0	S_Em_0@gmail.com	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

ADD NEW STUDENT

After deleting :

Deleting the detail of student having roll number “123123”

Students in jaiswal Mess

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

ADD NEW STUDENT

iv. RENAME

19110109	S_N_9	S_Em_9@gmail.com	female	hetchin		
19110110	S_N_10	S_Em_10@gmail.com	male	hetchin		
19110111	brefore	S_Em_11@gmail.com	male	hetchin		

ADD NEW STUDENT

LIST OF MESSES	LIST OF STUDENTS
--------------------------------	----------------------------------

Roll Number : 123

Name :	Harshit
Email :	ramolia.mh@iitgn.ac.in
Gender :	male
Mess_id :	1

[SUBIT](#) [CANCLE](#)

Renaming the student having roll number 19110111

19110109	S_N_9	S_Em_9@gmail.com	female	hetchin		
19110110	S_N_10	S_Em_10@gmail.com	male	hetchin		
19110111	after	S_Em_11@gmail.com	male	hetchin		
ADD NEW STUDENT						

v. WHERE

Student in Jaiswal Mess :

The screenshot shows a table titled "Students in jaiswal Mess". The columns are Roll Number, Name, Email, Gender, Mess, Edit, and Delete. There are four rows of data:

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@itgn.ac.in	male	jaiswal		
19110101	S_N_1	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		

At the bottom, there is a blue button labeled "ADD NEW STUDENT".

c. Steps to run web application:

This has been added in Readme.md and all the other details that are required to run the web application.

d. Login Parameters

The screenshot shows a table titled "List of all Students". The columns are Roll Number, Name, Email, Gender, Mess, Edit, and Delete. There are six rows of data:

Roll Number	Name	Email	Gender	Mess	Edit	Delete
123	Harshit	ramolia.mh@itgn.ac.in	male	jaiswal		
19110101	after update	S_Em_1@gmail.com	female	jaiswal		
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal		
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal		
19110104	S_N_4	S_Em_4@gmail.com	male	mohani		
19110105	S_N_5	S_Em_5@gmail.com	female	mohani		

in the above image, we have logged in as employee so we have the edit and the delete is available!

		LIST OF MESSES	LIST OF STUDENTS			Logged In as Student	LOGOUT
<h2>List of all Students</h2>							
Roll Number	Name	Email	Gender	Mess	Edit	Delete	
123	Harshit	ramolia.mh@iitgn.ac.in	male	jaiswal			
19110101	after update	S_Em_1@gmail.com	female	jaiswal			
19110102	S_N_2	S_Em_2@gmail.com	male	jaiswal			
19110103	S_N_3	S_Em_3@gmail.com	male	jaiswal			
19110104	S_N_4	S_Em_4@gmail.com	male	mohani			
19110105	S_N_5	S_Em_5@gmail.com	female	mohani			

in the above image, we have logged in as students and so the edit and delete option is not available!



Contribution:

G1 Group:, Harshit Ramolia, Insha Mansuri, Somesh Pratap Singh, Muhammad Yusuf Hassan, Priya Gupta, Pulkit Jain,

G2 Group: VP Shivasankaran, Md Amir Sohail, Patel Rajan Girishbhai, Shantanu Sahu, Patel Agam, Dhruv Darda

Reference :

- <https://legacy.reactjs.org/docs/getting-started.html>
- <https://blog.logrocket.com/how-to-use-axios-post-requests/>
- <https://flask.palletsprojects.com/en/2.2.x/>