

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

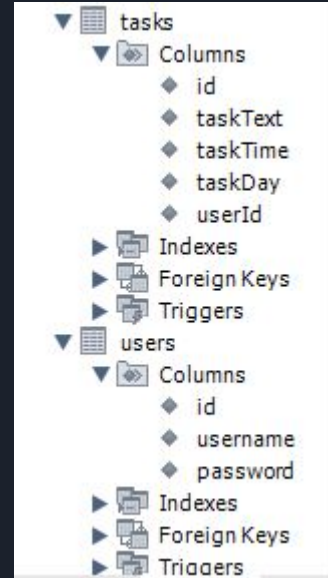
Task Manager

Ben Utter and Garrett Goodney

3-Tier Client Server Application

```
fetch(`http://localhost:3000/getTasks?userId=${userId}`)  
  .then(response => response.json())  
  .then(tasks => {  
    taskList.innerHTML = '';  
  
    tasks.forEach(task => {  
      const taskItem = document.createElement("li");  
      const taskDate = new Date(task.taskDay);
```

```
server.listen(port, hostname, function () {  
  console.log(`Server running at http://${hostname}:${port}`);  
});  
  
//sql info goes here  
const db = mysql.createConnection({  
  host: 'localhost',  
  user: 'root',  
  password: 'password',  
  database: 'dbms'  
});  
  
db.connect(() => {  
  console.log('Connected to MySQL');  
});
```



Web Browser

NodeJS Server

MySQL Database

SQL Tables

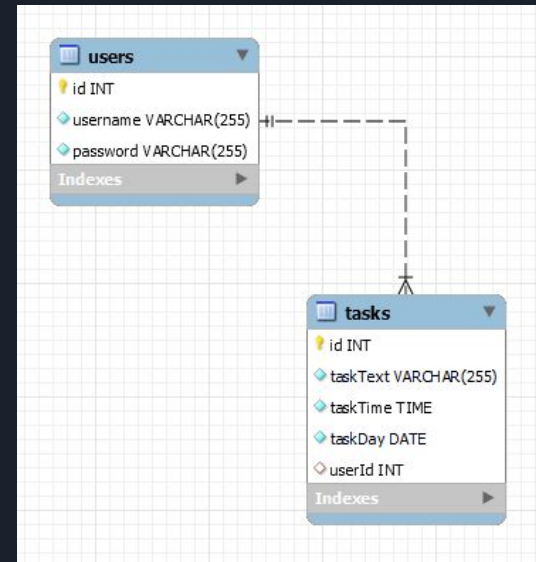
Users table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G
id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
username	VARCHAR(255)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
password	VARCHAR(255)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tasks table

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G
id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
taskText	VARCHAR(255)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
taskTime	TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
taskDay	DATE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ER Diagram





MySQL Queries

Insert - Register: `INSERT INTO users (username, password)`

Select - Login: `SELECT * FROM users WHERE username = ? AND password = ?`

Insert - New task: `INSERT INTO tasks (taskText, taskTime, taskDay, userId)`

Select - Get tasks: `SELECT * FROM tasks WHERE userId = ?`

Delete - Delete task: `DELETE FROM tasks WHERE id = ?`

Update - Edit task: `UPDATE tasks SET taskText = ?, taskTime = ?, taskDay = ? WHERE id = ?`



Error Handling

- Login page verification
- Cannot create tasks without a name, time, or date
- Cannot edit without confirming a name and time
- All requests print errors to console on the server and client end
- Errors checked on client and server side

Task Manager

Invalid username or password

[Close](#)



Statement of ranking

Member 1: Garrett Goodney

My teammate and I agree that I handled 50% of the overall project. My specific tasks included:

Task 1: I created the SQL database, tables, and ER diagram to go along with it.

Task 2: I wrote the JS file, and the connections used to connect to the frontend and modify the SQL database.

Task 3: I modified the front end code to implement the JS code I wrote.

Task 4: I added some of the CSS styling to the frontend to make it look better, along with modifying some of the on screen variables to be formatted in a visually pleasing way.

Task 5: I added comments throughout our code to explain how it worked.



Statement of ranking

Member 2: Benjamin Utter

My teammate and I agree that I handled 50% of the overall project. My specific tasks included:

Task 1: I created frontend code to have users create, edit and delete tasks

Task 2: I wrote CSS code to provide a welcoming interface

Task 3: I created interactive buttons that could connect to the backend

Task 4: I integrated data validation for the input fields in the front end

Task 5: I created the calendar (almost working)


Task 6: I helped create the slideshow and pasted some pictures into it

Github Repo

<https://github.com/goodneyg/DBMS-Final-Project>

Task Manager

Logged In: test



Add Task

bio homework - Time: 23:59:00, Date: 12/15/2023 Delete Edit

english homework - Time: 23:59:00, Date: 12/13/2023 Delete Edit

walk the dog - Time: 14:00:00, Date: 12/08/2023 Delete Edit

brunch - Time: 11:30:00, Date: 12/12/2023 Delete Edit

test - Time: 12:03:00, Date: 12/14/2023 Delete Edit

presentation2 - Time: 11:00:00, Date: 02/21/2024 Delete Edit