

# TEAM TASK BOARD

## Requirement:

Build a simple task board for a small team to track work.

## Description

You've joined a 5-person product team at a small company. They currently manage tasks in a messy spreadsheet and a group chat. People miss deadlines because they don't know what's urgent, and there's no shared view of progress. Your job is to give them a clean board they can open in a browser and immediately see who's doing what, what's due soon, and where things are stuck. When someone creates a task, they should be able to set a title, description, priority, assignee, and due date. The task appears under "Backlog." As work starts, they drag it to "In Progress," then "Review," then "Done." If a due date is approaching within 24 hours, the task should show a badge that warns the team it's at risk. If the due date passes and it's not done, it shows as overdue. Team members can click a task to read details and leave short comments like "blocked on design" or "waiting for access." Filters help them narrow to "only my tasks" or "only High priority." This app doesn't need fancy animations; it must be reliable, easy to read, and safe. After a page refresh, everything should be there. A new team member should be able to sign up, log in, and use it in minutes.

## Frontend:

- Board with 4 columns: Backlog, In Progress, Review, Done.
- Cards show title, priority (Low/Medium/High), assignee, due date, and a status badge (On Track, At Risk, Overdue).
- Click a card to open details (description, comments).
- Filters: by assignee and priority.

## Backend:

- User login (email + password).
- APIs to create, read, update, delete tasks; move a task between columns; add comments.
- Badge logic:

On Track: due date more than 24h away. At Risk: due date within 24h. Overdue: past due and not Done.

## Database:

- Users: id, email, passwordHash.
- Tasks: id, title, description, priority, assigneeId, status, dueDate, created, updated.
- Comments: id, taskId, authorId, body, created.

## Hosting:

- Deployed frontend and backend with working DB

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## Features:

The team task board is the tool which helps to manage the task of that particular team efficiently. It stores the user information and also their respective assign task. It has four board such as Backlog, In Progress, Review, Done. Then according to completion of work the developer can drag and drop that task to other board for further action. It makes the easy understand to the developer for the further action. It also simplify the searching by filter and to make the task more efficiently to get the feedback or requirements it has the comment section. It stores all the team members comments for a particular task.

## Tech Stack Used:

Frontend : React.js, TailwindCSS

Backend : Node.js, Express.js

Database : MongoDB

Authentication : Jsonwebtoken, bcrypt

## Database Schemas:

Users Collection:

It stores the data of the team members with email , password and give access to the user whose data are save in the database.

Tasks Collection:

It stores all the tasks assigned to a particular user, with a reference to the users collection, so we can know which task is assigned to which user. It have the detailed data of the task which includes the task name, description, priority, assigneeld, status and duedate.

Comments Collection:

It stores all comments made by users on a particular task. Each comment includes fields such as such as taskId, authored, body, created at.

## Hosting URL:

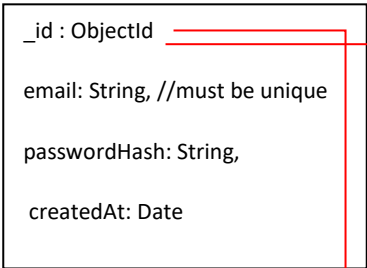
Frontend URL : <https://radiant-yeot-e18c90.netlify.app/>

Backend URL : <https://taskboard-0qzt.onrender.com>

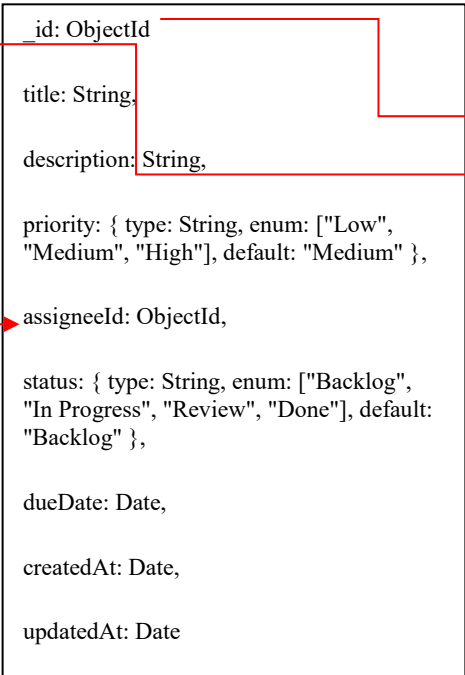
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## Database Design:

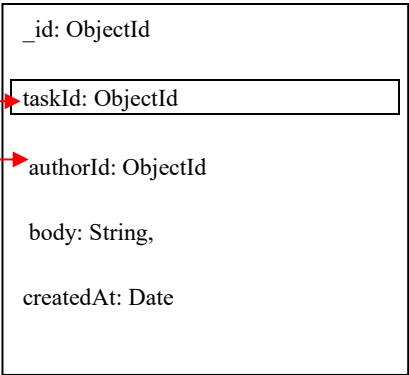
### Users



### Tasks



### Comments



# TEAM TASK BOARD

## API EndPoints:

localhost End Point: POST : <http://localhost:4000/api/auth/login>

render End Point: POST : <https://taskboard-0qzt.onrender.com/> (Change in endpoint to test in render)

The screenshot shows the Thunder Client interface. The left sidebar displays a list of requests, with the selected request being a POST to `localhost:4000/api/auth/login` performed 'just now'. The main panel shows the request details: Method `POST`, URL `http://localhost:4000/api/auth/login`, and the request body in JSON format: 

```
{  "email": "jagan@gmail.com",  "password": "jagan123"}
```

. The response status is `200 OK` with a size of `290 Bytes` and a time of `82 ms`. The response body is a JSON object: 

```
{  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQiOiI2OGExNmJlYTUyNTY5NTA2YzU3Mjk3OTU1LCJlbWVpbCI6ImphZ2F0dWVlLnVbSI0iOiJ1c2VySWQ6MTc1NTQwOTQyMywiZmxhZjoxNzU2MDE0MjIzZjQ6CeVE0kwio5g3ooNoC1loif8jXA_kHFJ8fUXuIWesMck",  "user": {    "id": "68a16bea695f9906c5729795",    "email": "jagan@gmail.com"  }}
```

.

POST : <http://localhost:4000/api/task>

The screenshot shows the Thunder Client interface. The left sidebar displays a list of requests, with the selected request being a POST to `localhost:4000/api/task` performed 'just now'. The main panel shows the request details: Method `POST`, URL `http://localhost:4000/api/task`, and the request headers: `Accept: */*`, `User-Agent: Thunder Client (https://www.thunderclient.com)`, and `Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWQ6MTc1NTQwOTQyMywiZmxhZjoxNzU2MDE0MjIzZjQ6CeVE0kwio5g3ooNoC1loif8jXA_kHFJ8fUXuIWesMck`. The response status is `201 Created` with a size of `352 Bytes` and a time of `98 ms`. The response body is a JSON object: 

```
{  "_id": "68a16c66695f9906c5729798",  "title": "Design Login Page",  "description": "Create UI for login form",  "priority": "High",  "assigneeId": null,  "status": "Backlog",  "dueDate": "2025-08-17T00:00:00.000Z",  "createdAt": "2025-08-17T05:45:10.320Z",  "updatedAt": "2025-08-17T05:45:10.320Z"}
```

.

# TEAM TASK BOARD

GET : [http://localhost:4000/api/task/ 68a16c66695f9906c5729798](http://localhost:4000/api/task/68a16c66695f9906c5729798)

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

GET localhost:4000/api/task just now

POST localhost:4000/api/auth/login just now

POST localhost:4000/api/auth/register just now

POST localhost:4000/api/food/add 11 months ago

GET localhost:4000/ 11 months ago

POST localhost:5000/api/createuser 2 years ago

POST thunderclient.com/welcome 2 years ago

GET localhost:5000 2 years ago

GET http://localhost:4000/api/task/68a16c66695f9906c5729798

Query Headers 3 Auth Body 1 Tests Pre Run

HTTP Headers

Accept \*/\*

User-Agent Thunder Client (https://www.thunderclient.com)

Authorization Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWI

Status: 200 OK Size: 366 Bytes Time: 80 ms

```
1 {
2   "_id": "68a16c66695f9906c5729798",
3   "title": "Design Login Page",
4   "description": "Create UI for login form",
5   "priority": "High",
6   "assigneeId": null,
7   "status": "Backlog",
8   "dueDate": "2025-08-17T00:00:00.000Z",
9   "createdAt": "2025-08-17T05:45:10.320Z",
10  "updatedAt": "2025-08-17T05:45:10.320Z"
}
```

Problems 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTMAN CONSOLE SPELL CHECKER 1

GET : <http://localhost:4000/api/comment/68a03adb20364ada17c1366f>

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

GET localhost:4000/api/comment/68a16c66... just now

GET localhost:4000/api/task just now

POST localhost:4000/api/auth/login just now

POST localhost:4000/api/auth/register just now

POST localhost:4000/api/food/add 11 months ago

GET localhost:4000/ 11 months ago

POST localhost:5000/api/createuser 2 years ago

POST thunderclient.com/welcome 2 years ago

GET http://localhost:4000/api/comment/68a16d76695f9906c57297af

Query Headers 3 Auth Body Tests Pre Run

HTTP Headers

Accept \*/\*

User-Agent Thunder Client (https://www.thunderclient.com)

Authorization Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VySWI

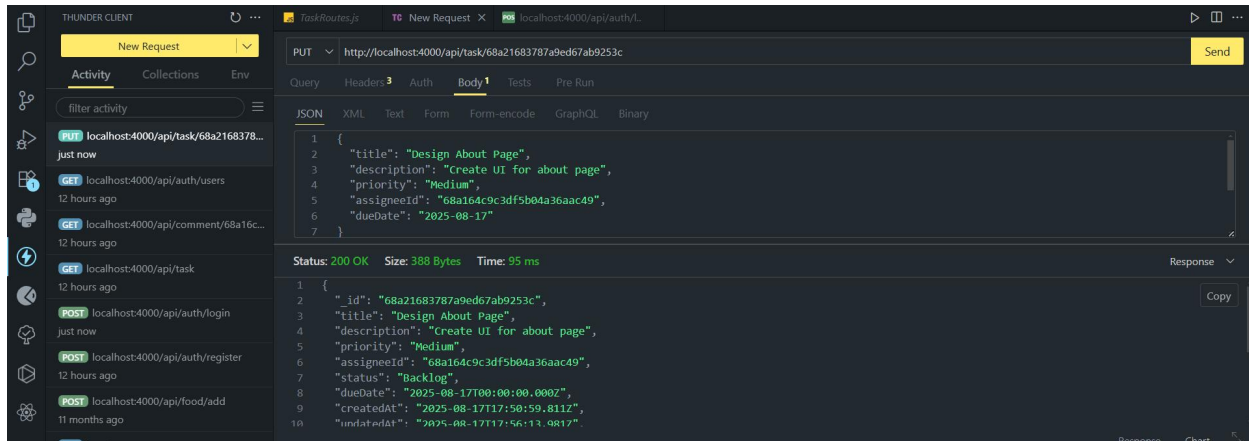
Status: 200 OK Size: 160 Bytes Time: 59 ms

```
1 [
2   {
3     "id": "68a16da3695f9906c57297b6",
4     "body": "Make the page simple and dynamic",
5     "createdAt": "2025-08-17T05:50:27.192Z",
6     "authorEmail": "jagannathpatro234@gmail.com"
7   }
8 ]
```

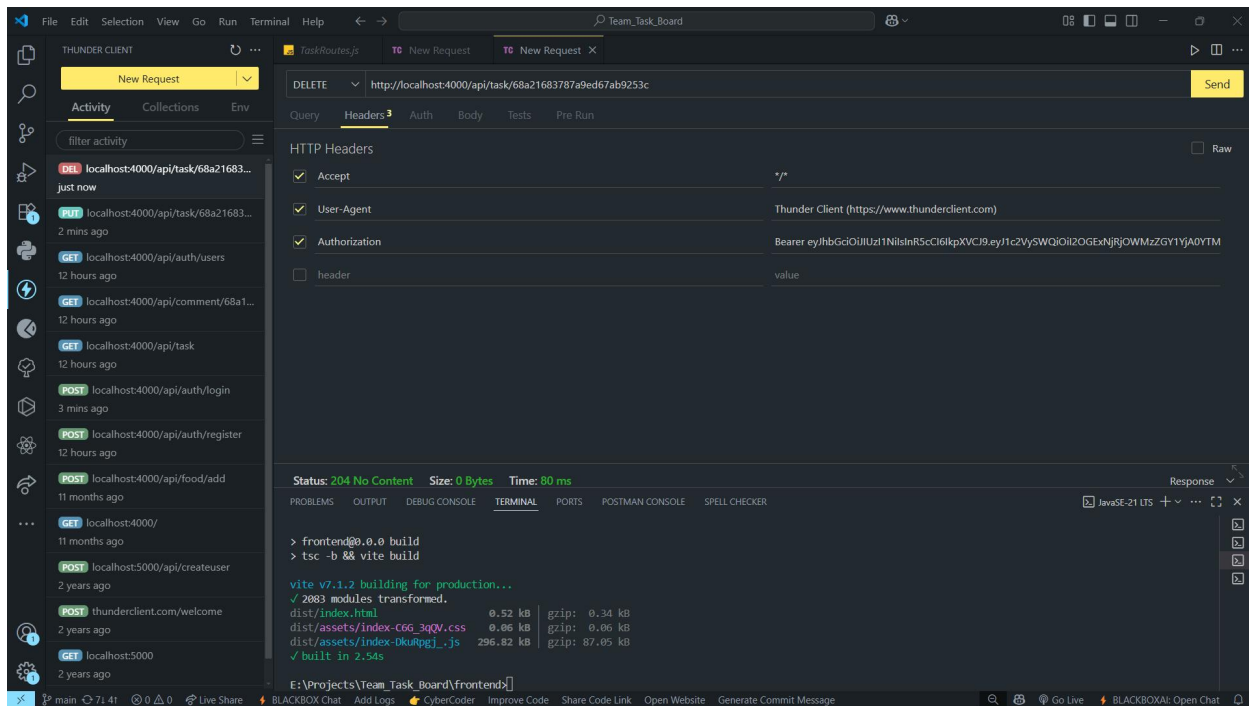
Problems 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS POSTMAN CONSOLE SPELL CHECKER 1

# TEAM TASK BOARD

PUT : <http://localhost:4000/api/task/68a21683787a9ed67ab9253c>



DELETE : <http://localhost:4000/api/task/68a21683787a9ed67ab9253c>



# **TEAM TASK BOARD**

## **Status Code Used:**

All API responses return JSON format with appropriate HTTP status codes:

- `200` - Success
- `201` - Created
- `204` - No Content
- `400` - Bad Request
- `401` - Unauthorized
- `403` - Forbidden
- `404` - Not Found
- `500` - Internal Server Error

## **CORS:**

The API allows cross-origin requests from all origins `` for development. In production, configure CORS to allow only frontend domain.

## **Security Considerations:**

- HTTPS used in production.
- Store JWT tokens securely.
- Implement proper password hashing using bcrypt with salt rounds.
- Add input validation.
- Consider implementing refresh tokens for enhanced security