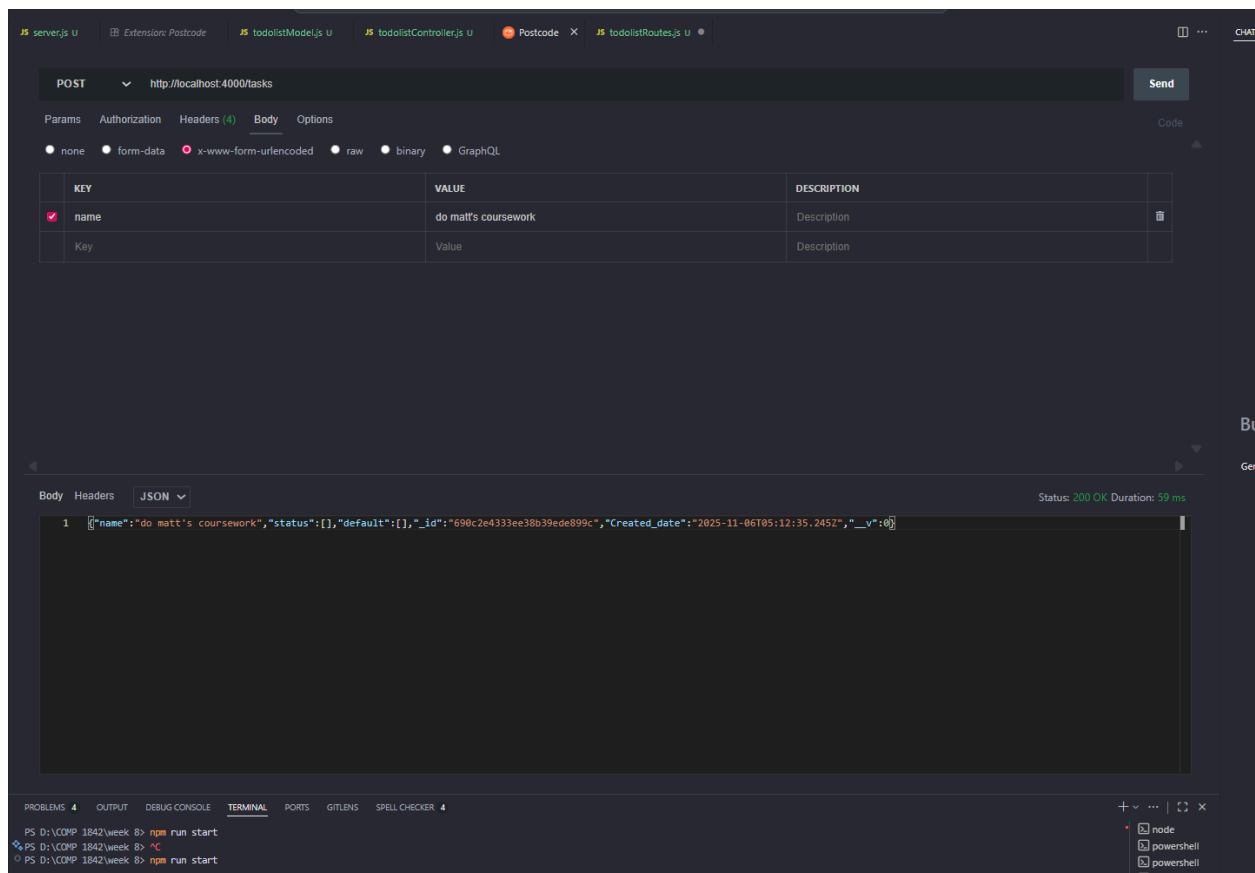


In this laboratory, I acquired the skills to construct and comprehend the architecture of a RESTful API project with Node.js and Express. The project was structured into three primary layers: models, controllers, and routes. The model delineates the structure of data and its interactions with the database. The controller encompasses the primary logic that manages HTTP requests, including the creation, retrieval, modification, and deletion of data. The route serves as a conduit linking API endpoints to their respective controller functions, guaranteeing the accurate processing of each request.

I practiced API testing with Postman, doing several HTTP calls like GET, POST, PUT, and DELETE. For instance, executing POST /users yields a 201 (Created) response upon the successful addition of a new record. The GET /users endpoint returns a 200 (OK) status with a list of users, whereas the GET /users/{id} endpoint returns a 200 (OK) status if the user exists, or a 404 (Not Found) status if the ID is invalid. PUT /users/{id} yields a 200 (OK) or 204 (No Content) status upon a successful update, whereas DELETE /users/{id} returns a 200 (OK) status if the record is successfully deleted.

During this process, I acquired a comprehensive understanding of the correlation between HTTP methods and CRUD processes, as well as the interpretation of prevalent status codes including 200, 201, 400, 404, and 500. This lab facilitated the development of a robust foundation in the design, organization, and testing of RESTful APIs.



File Edit Selection View Go Run Terminal Help week 8

server.js u Extensions Postcode todosistModel.js u todosistController.js u Postcode x todosistRoutes.js u

GET http://localhost:4000/tasks Send

Params Authorization Headers Body Options

none form-data x-www-form-urlencoded raw binary GraphQL

KEY	VALUE	DESCRIPTION
name	do matt's coursework	Description
Key	Value	Description

Body Headers JSON

Status: 200 OK Duration: 16 ms

```
1 [{"_id":"608c2e3633ee38b39ede8994","name":"do matt's coursework","status":{"default":{},"created_date":"2025-11-06T05:12:23.003Z","_v":0},"_id":"608c2e4333ee38b39ede899c","name":"do null"}]
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 4

```
PS D:\COMP 1842\week 8> npm run start
PS D:\COMP 1842\week 8> ^C
PS D:\COMP 1842\week 8> npm run start

> week-8@1.0.0 start
> node server.js

Server running on port 4000
MongoDB connected
```

Build with agent mode

Generate Agent Instructions to onboard AI

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER 4

```
PS D:\COMP 1842\week 8> npm run start
PS D:\COMP 1842\week 8> ^C
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Server running on port 4000
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```

chpad 0 0 0 4 Sourcery Analytics

