



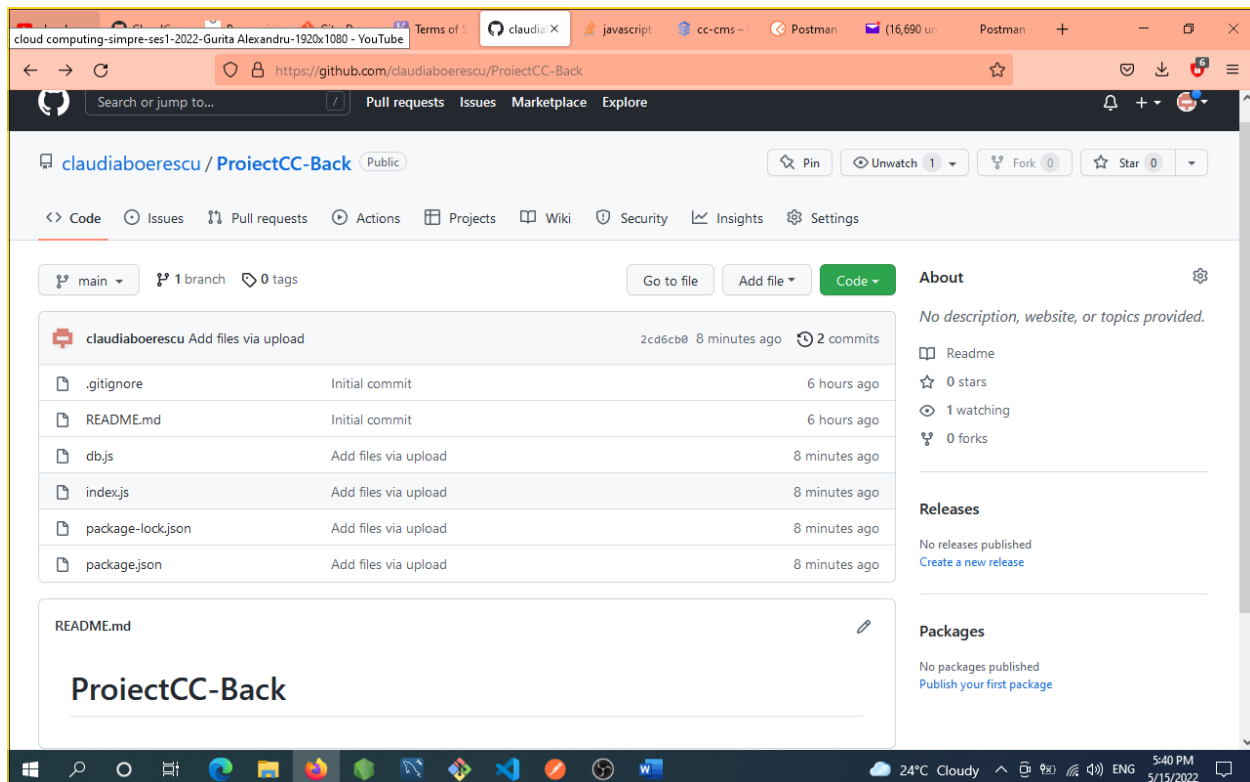
Realizarea unei aplicatii prin care se primesc reclamatii de la clienti

Proiect realizat de:

Boerescu Claudia Maria, grupa 1117

Cloud Computing

Crearea unui repository pe git:



Clonarea acestuia:

```
MINGW64/c/Users/Claudia/Desktop/ProiectCC/ProiectCC-Back
rm: cannot remove '/etc/post-install/01-devices.post': Permission denied
rm: cannot remove '/etc/post-install/03-mtab.post': Permission denied
rm: cannot remove '/etc/post-install/06-windows-files.post': Permission denied
rm: cannot remove '/etc/post-install/99-post-install-cleanup.post': Permission denied

Claudia@Laptop-Claudia MINGW64 ~/Desktop/ProiectCC
$ git clone https://github.com/claudiaboerescu/ProiectCC-Back.git
Cloning into 'ProiectCC-Back'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.

Claudia@Laptop-Claudia MINGW64 ~/Desktop/ProiectCC
$ cd ProiectCC-Back/

Claudia@Laptop-Claudia MINGW64 ~/Desktop/ProiectCC/ProiectCC-Back (main)
$
```

Instalarea pachetelor:

```
{
  "package-lock.json" > ...
  48     "version": "3.1.2",
  49     "resolved": "https://registry.npmjs.org/bytes/-/bytes-3.1.2.tgz",
  50     "integrity": "sha512-/Nf7TyzTx6S3yRJOb0AV7956r8cr2+Oj8AC5dt8wSP3BQAoeX58NoHyCU8P8zGkNXStjTSi6fz06F0p8dcYbE
  51     "engines": {
  52       "node": ">= 0.8"
  53     }
  54   },
  55   "node_modules/call-bind": {
  56     "version": "1.0.2",
  57     "resolved": "https://registry.npmjs.org/call-bind/-/call-bind-1.0.2.tgz",
  58     "integrity": "sha512-call-bind-1.0.2.tgz",
  59     "dependencies": {
  60       "function-bind": "^1.1.1",
  61       "get-intrinsic": "^1.0.2"
  62     },
  63     "funding": {
  64       "url": "https://github.com/sponsors/ljharb"
  65     }
  66   },
  67   "node_modules/content-disposition": {
  68     "version": "0.5.4",
  69     "resolved": "https://registry.npmjs.org/content-disposition/-/content-disposition-0.5.4.tgz",
  70     "integrity": "sha512-FveZTNuGw04cx1AiWbzi6zTAL/lhehawbTtgluJh4/E95DqMwTmha3KZN1aAWA8cFIhHzMZUvLevkw5Rqk+ts
  71     "dependencies": {
    ...
  }
}
```

Captura din fisierul index.js

```
JS index.js > ...
1  const express = require('express');
2  const cors = require('cors');
3
4  const bodyParser = require("body-parser");
5  const messagesRouter = require('./router/messagesRouter');
6
7
8  const app = express();
9  app.use(cors());
10
11 // for parsing application/json
12 app.use(bodyParser.json());
13 // for parsing application/x-www-
14 app.use(bodyParser.urlencoded({ extended: true }));
15
16 // Define routes
17 app.use("/reclamatii", messagesRouter);
18
19 const port = process.env.PORT || 8080;
20
21 app.listen(port, () => {
22   console.log(`Cloud computing app listening on port ${port}!`)
23 });
24
```

Realizarea bazei de date in google cloud:

Go back one page (Alt+Left Arrow)  
Right-click or pull down to show history

Free trial status: \$394.76 credit and 86 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

DISMISS ACTIVATE

Google Cloud Platform My First Project Search Products, resources, docs (/)

SQL

PRIMARY INSTANCE

- Overview
- Connections
- Users
- Databases
- Backups
- Replicas
- Operations

Release Notes

Overview

All instances > cc-cms

cc-cms

MySQL 5.7

1 hour 6 hours **1 day** 7 days 30 days Custom

Chart

Connect to this instance

Public IP address

34.88.200.172

Connection name

sincere-burner-349818:eu-north1:cc-cms

Need help connecting?

Configuration

vCPUs	Memory	SSD storage
4	26 GB	100 GB

Uploads and My First Project operations

- Edited cc-cms 1:31:34 PM GMT+3
- Created cc-cms 12:30:39 PM GMT+3

Introducerea numelui de utilizator si a parolei:

Free trial status: \$394.76 credit and 86 days remaining - with a full account, you'll get unlimited access to all of Google Cloud Platform.

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Google Cloud Platform My First Project Search Products, resources, docs (/)

SQL

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Users

All instances > cc-cms

cc-cms

MySQL 5.7

User accounts enable users and applications to connect to your instance. [Learn more](#)

+ ADD USER ACCOUNT

User name	Host name	Authentication
cc-com-user	% (any host)	Built-in
root	% (any host)	Built-in

24°C Cloudy 6:23 PM 5/15/2022

Schimbarea ip-ului:

## Connections

You can use the Cloud SQL Proxy for extra security with either option. [Learn more](#)

### Instance IP assignment

- ☐ **Private IP**  
Assigns an internal, Google-hosted VPC IP address. Requires additional APIs and permissions. Can't be disabled once enabled. [Learn more](#)
- ☒ **Public IP**  
Assigns an external, internet-accessible IP address. Requires using an authorized network or the Cloud SQL Proxy to connect to this instance. [Learn more](#)

### Authorized networks

You can specify CIDR ranges to allow IP addresses in those ranges to access your instance. [Learn more](#)

Work (213.233.110.194) ▼

[ADD NETWORK](#)

### App Engine authorization

All apps in this project are authorized by default. You can use [Cloud IAM](#) to authorize apps in other projects. [Learn more](#)

[SAVE](#)

[DISCARD CHANGES](#)

### Uploads and My First Project operations

- ✓ Edited [cc-cms](#) 1:31:34 PM GMT+3
- ✓ Created [cc-cms](#) 12:30:39 PM GMT+3

Realizarea conexiunii cu baza de date din Google Cloud, crearea tabelului si popularea acestuia in MySQL WorkBench:

The screenshot shows the MySQL Workbench interface. The left sidebar contains the 'MANAGEMENT' tab with options like Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, and Data Import/Restore. The 'INSTANCE' tab shows Startup / Shutdown, Server Logs, and Options File. The 'PERFORMANCE' tab shows Dashboard, Performance Reports, and Performance Schema Setup. The 'Administration' tab is selected, showing 'Schemas' and 'Information'. The 'Information' section shows 'No object selected'.

The main window displays a SQL query in the 'Query 1' tab:

```
1 use `cc-db`;
2 /*CREATE TABLE reclamatii (
3 entryID INT NOT NULL auto_increment, PRIMARY KEY(entryID),
4 reclamant VARCHAR(255),
5 mailReclamant VARCHAR(255),
6 mailAngajatReclamatii VARCHAR(255),
7 reclamatia TEXT(25535)
8 );*/
9
10 INSERT INTO reclamatii(reclamant, mailReclamant, mailAngajatReclamatii, reclamatia) values("Claudia", "cla
11
12 SELECT * FROM reclamatii
13
```

The 'Result Grid' shows the output of the query:

entryID	reclamant	mailReclamant	mailAngajatReclamatii	reclamatia
1	Claudia	claudiaboerescu@yahoo.com	claudiaboerescu@yahoo.com	Defectiune tehnica
2	Claudia	claudiaboerescu@yahoo.com	claudiaboerescu@yahoo.com	Defectiune tehnica
3	Claudia	claudiaboerescu@yahoo.com	claudiaboerescu@yahoo.com	Defectiune tehnica
4	NULL	NULL	NULL	NULL

The 'Output' section shows the execution results:

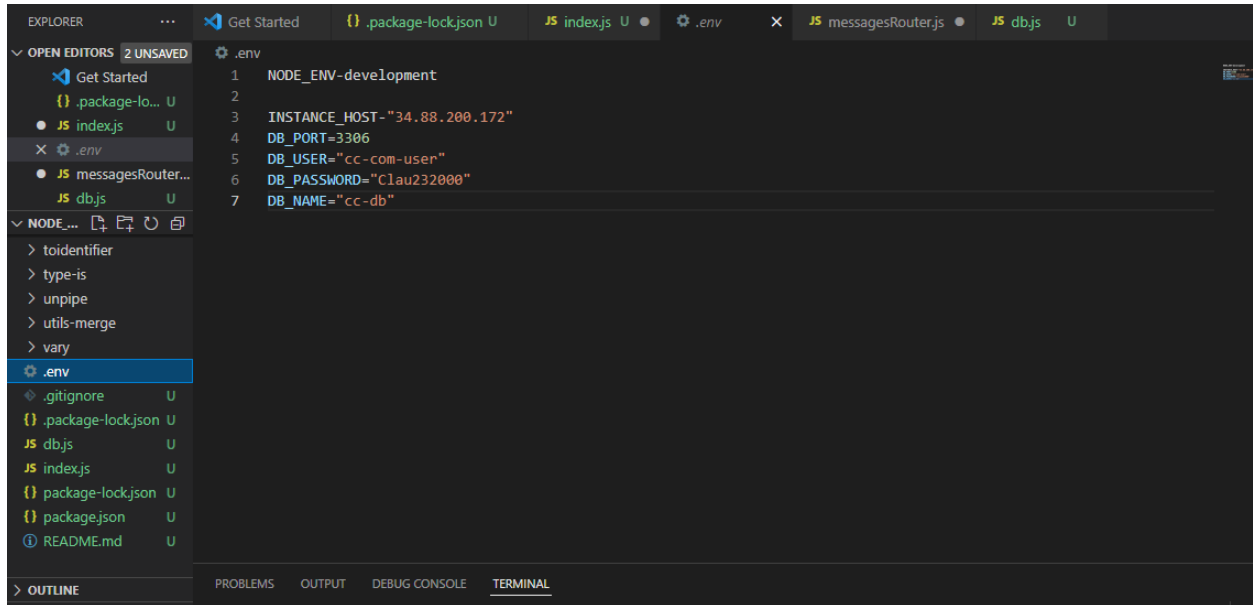
#	Time	Action	Message	Duration / Fetch
16	17:07:40	use 'cc-db'	0 row(s) affected	0.110 sec
17	17:07:40	INSERT INTO reclamatii(reclamant, mailReclamant, mailAngajatReclamatii, reclama...	1 row(s) affected	0.110 sec
18	17:07:40	SELECT * FROM reclamatii LIMIT 0, 1000	2 row(s) returned	0.093 sec / 0.000 sec

The bottom status bar shows the system clock as 6:18 PM on 5/15/2022, with a temperature of 24°C and a cloud icon.

Tabela reclamatiei contine un id, care este cheie primara si se auto-incrementeaza,

Numele reclamantului, mail-ul reclamantului, mail-ul angajatului care se ocupa de reclamatiei si reclamatia.

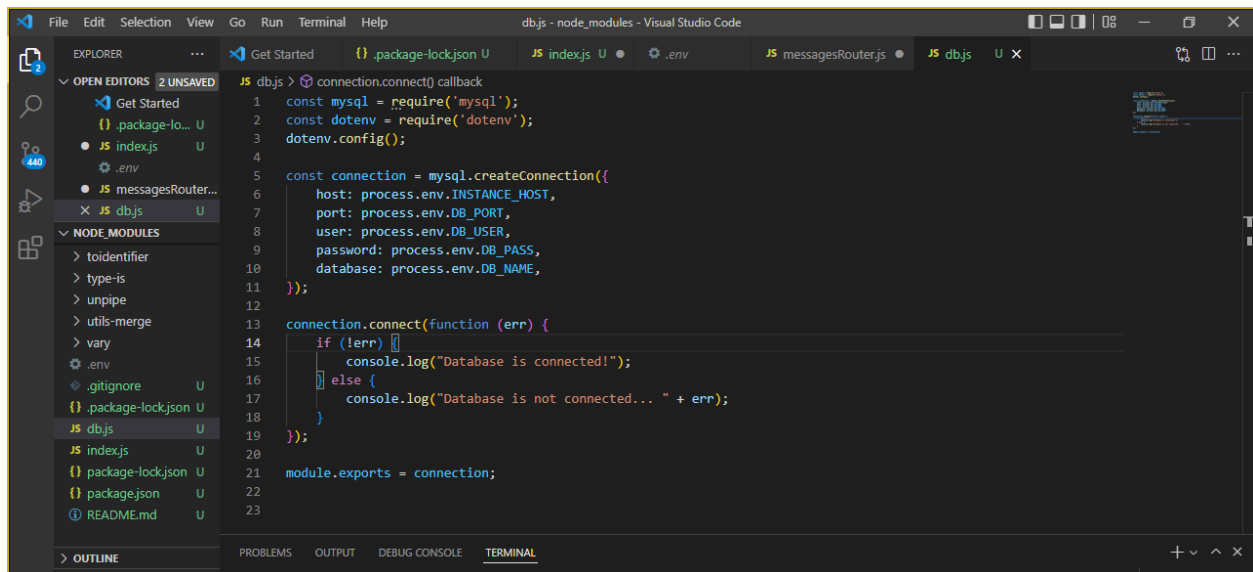
Captura din fisierul env:



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left and the Editor window in the center. The Explorer sidebar shows the file structure of the project, including the .env file. The Editor window displays the content of the .env file, which contains the following configuration:

```
1 NODE_ENV=development
2
3 INSTANCE_HOST="34.88.200.172"
4 DB_PORT=3306
5 DB_USER="cc-com-user"
6 DB_PASSWORD="Clau232000"
7 DB_NAME="cc-db"
```

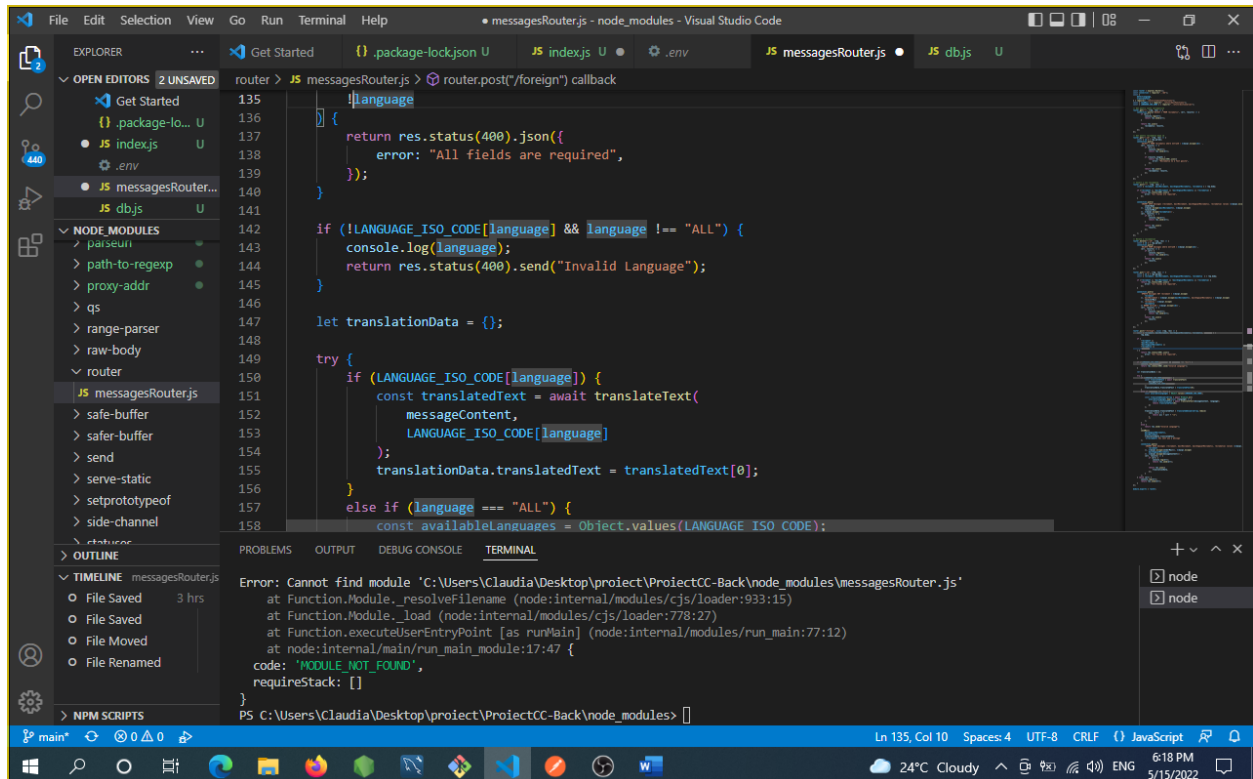
Fisierul db, in care am realizat conexiunea, prin intermediul fisierului de tip .env:



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left and the Editor window in the center. The Explorer sidebar shows the file structure of the project, including the db.js file. The Editor window displays the content of the db.js file, which contains the following code:

```
1 const mysql = require('mysql');
2 const dotenv = require('dotenv');
3 dotenv.config();
4
5 const connection = mysql.createConnection({
6   host: process.env.INSTANCE_HOST,
7   port: process.env.DB_PORT,
8   user: process.env.DB_USER,
9   password: process.env.DB_PASS,
10  database: process.env.DB_NAME,
11 });
12
13 connection.connect(function (err) {
14   if (!err) {
15     console.log("Database is connected!");
16   } else {
17     console.log("Database is not connected... " + err);
18   }
19 });
20
21 module.exports = connection;
```

In fisierul messagesRouter am realizat functiile necesare pentru a afisa toate reclamatii, reclamatii dupa id, pentru a introduce si a sterge o noua reclamatie, pentru a traduce in diferite limbi reclamatii introduse.

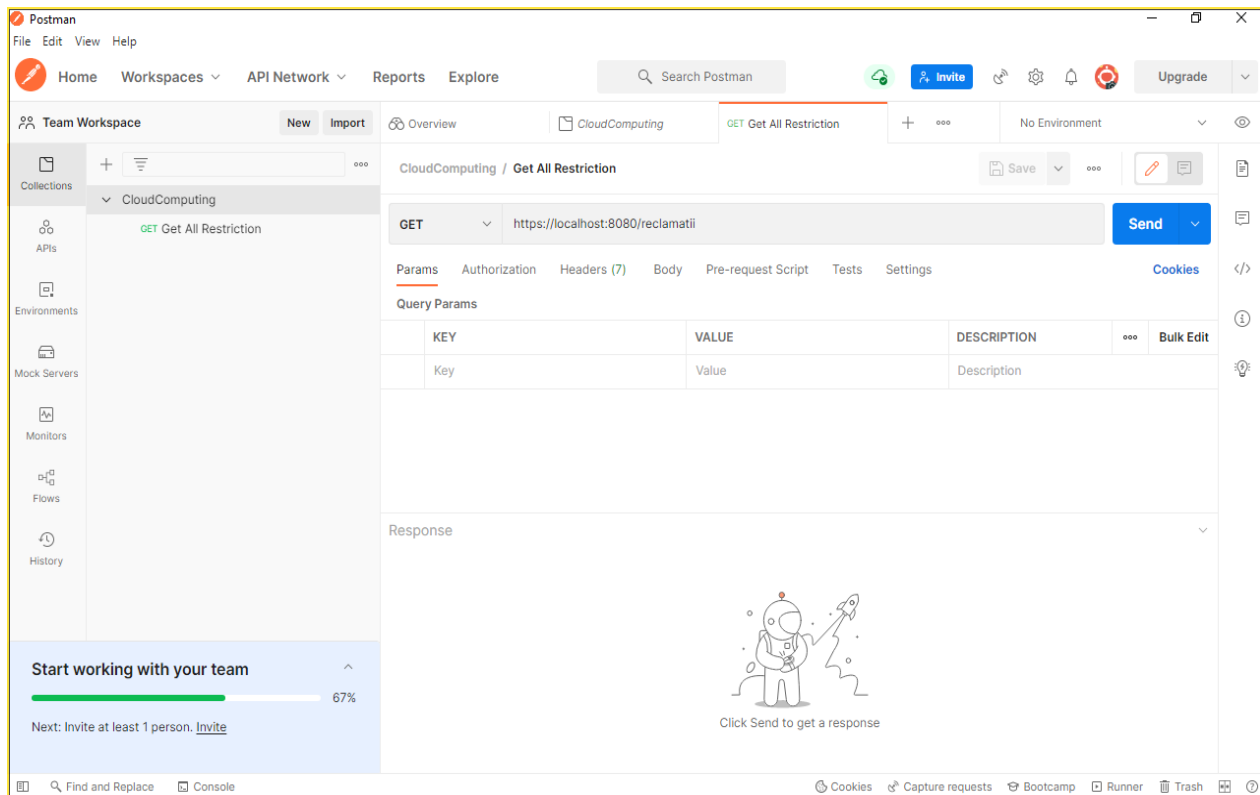


The screenshot shows the Visual Studio Code editor with the file `messagesRouter.js` open. The code defines a `router.post("/foreign")` endpoint. It checks for a `language` header, returns a 400 status if no language is provided or if it's invalid, and then attempts to translate the message content. A runtime error is visible in the terminal:

```
Error: Cannot find module 'C:\Users\Claudia\Desktop\proiect\ProiectCC-Back\node_modules\messagesRouter.js'
at Function.Module._resolveFilename (node:internal/modules/cjs/loader:933:15)
at Function.Module._load (node:internal/modules/cjs/loader:778:27)
at Function.executeUserEntryPoint [as runMain] (node:internal/modules/run_main:77:12)
at node:internal/main/run_main_module:17:47 {
  code: 'MODULE_NOT_FOUND',
  requireStack: []
}
PS C:\Users\Claudia\Desktop\proiect\ProiectCC-Back\node_modules>
```

The error message indicates that the module `messagesRouter.js` cannot be found in the specified path. The terminal output shows the error details, including the stack trace and the error code `MODULE_NOT_FOUND`.

Crearea unei conexiuni in Postman in localhost, denumita CloudComputing.



Resurse:

- ☐ Cont [GitHub](#) (sau altă platformă asemănătoare)
- ☐ [Visual Studio Code](#) (sau alt editor)
- ☐ Postman - <https://www.postman.com/downloads/>
- ☐ MySQL Workbench - <https://dev.mysql.com/downloads/workbench/> (setări default)
- ☐ NodeJS - <https://nodejs.org/en/download/>
- ☐ Git - <https://git-scm.com/downloads>
- ☐ Google Cloud Platform Account - <https://cloud.google.com/> (gratuit, 300\$ free usage credit, cere o validare a unui card de credit dar nu percepe costuri suplimentare decât în cazul unui upgrade)
- ☐ Heroku Account - <https://signup.heroku.com/dc> - Free
- ☐ Heroku CLI - <https://devcenter.heroku.com/articles/heroku-cli> - Install with an Installer
- ☐ AWS Account - <https://aws.amazon.com/cloud9/> - presupune mai multi pași de verificare dar nu ar trebui să provoace probleme. Dacă îl folosiți pe viitor, aveți grijă să alegeți doar opțiunile free pentru a nu produce costuri suplimentare neprevăzute



Link catre repository-ul din git: <https://github.com/claudiaboerescu/ProiectCC-Back>

Link catre video:

[https://drive.google.com/file/d/1-f\\_7jULN4EO4oMIIQ46JC3l2cYT9qK8/view?usp=sharing](https://drive.google.com/file/d/1-f_7jULN4EO4oMIIQ46JC3l2cYT9qK8/view?usp=sharing)