

Steps to follow

Hey! Thanks for purchasing the source code. There are a few things you need to do first. If you skip these steps, you won't be able to see the site in action. Let's get started!

Node Version Used: **node v23.10.0 (npm v11.2.0)**

Running the MERN AI Invoice Generator App Project

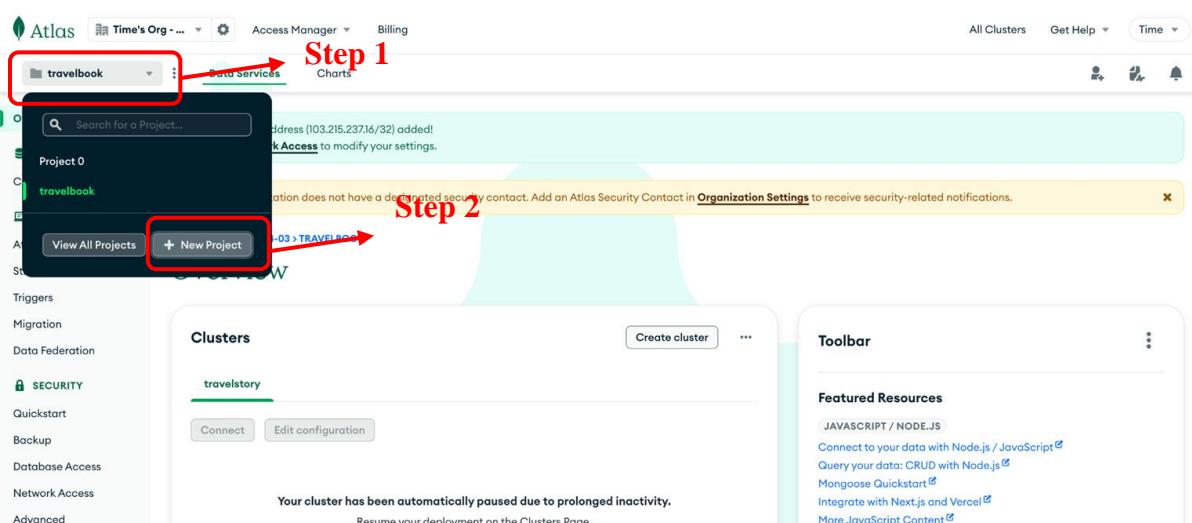
Backend (Express.js)

1. Navigate to the backend folder in your terminal.
2. Install the required dependencies by running:

```
npm install
```

3. Connect MongoDB:

- Visit <https://www.mongodb.com/>
- Log in or create an account.
- Click the "**New Project**" button to create a project.



- Enter a project name and click "Next".

Atlas Time's Org - ... Access Manager Billing All Clusters Get Help Time

TIME'S ORG - 2024-04-03 > PROJECTS

Create a Project

Name Your Project

Project names have to be unique within the organization (and other restrictions).

Add Tags (Optional)

Use tags to efficiently label and categorize your projects. A project can have a maximum of 50 tags. You can modify tags for the project later. [Learn more](#)

| Key | Value | Actions |
|--------------------------------|----------------------------------|--------------------|
| Select a key or enter your own | Select a value or enter your own | trash |
| + Add tag | | 0 TAGS |

Cancel **Next**

- (Optional) Add team members, then click "**Create Project**".

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TIME'S ORG - 2024-04-03 > PROJECTS

Create a Project

Name Your Project

Add Members and Set Permissions

Invite new or existing users via email address...

Give your members access permissions below.

ii.com (you) Project Owner

Back **Cancel** **Create Project**

Project Member Permissions

- Project Owner**
Has full administration access
- Project Cluster Manager**
Can update clusters
- Project Data Access Admin**
Can access and modify a cluster's data and indexes, and kill operations
- Project Data Access Read/Write**
Can access a cluster's data and indexes, and modify data
- Project Data Access Read Only**
Can access a cluster's data and indexes
- Project Search Index Editor**
Can view and manage a cluster's search indexes
- Project Read Only**

- Click on the "**Clusters**" option in the side menu.
- Click "**Build a Cluster**".

Clusters Step 1

Create a cluster
Choose your cloud provider, region, and specs.

Build a Cluster Step 2

- Select the **Free Tier**, enter a cluster name.

Use a template below or set up advanced configuration options. You can also edit these configuration options once the cluster is created.

| M10 | \$0.08/hour | |
|------------------------------------------------------------------------------|-------------|-----------------|
| Dedicated cluster for development environments and low-traffic applications. | | |
| STORAGE 10 GB | RAM 2 GB | vCPU 2 vCPUs |

| Flex | From \$0.011/hour Up to \$30/month | |
|---------------------------------------------------------------------------------------------------|---------------------------------------|--------------------|
| For application development and testing, with on-demand burst capacity for unpredictable traffic. | | |
| STORAGE 5 GB | RAM, vCPU Shared | OPS/SEC 0 - 500 |

| Free | | |
|------------------------------------------------------------|---------------------|--------------------|
| For learning and exploring MongoDB in a cloud environment. | | |
| STORAGE 512 MB | RAM, vCPU Shared | OPS/SEC 0 - 100 |

Free forever! Your free cluster is ideal for experimenting in a limited sandbox. You can upgrade to a production cluster anytime.

Configurations

Name: pollingApp Step 2

Quick setup

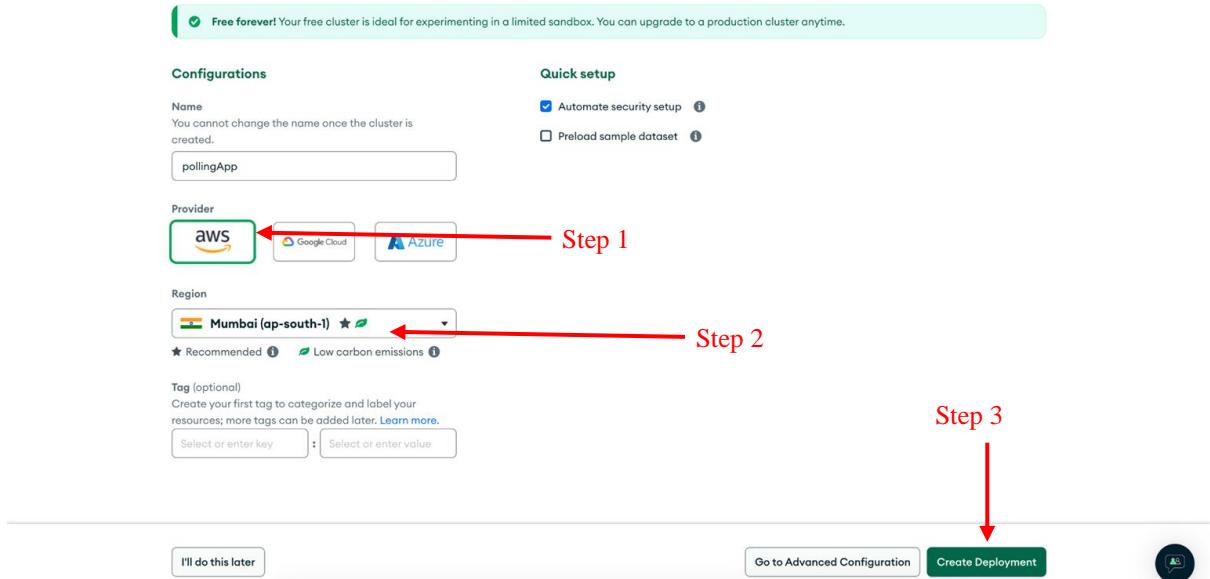
Automate security setup

Preload sample dataset

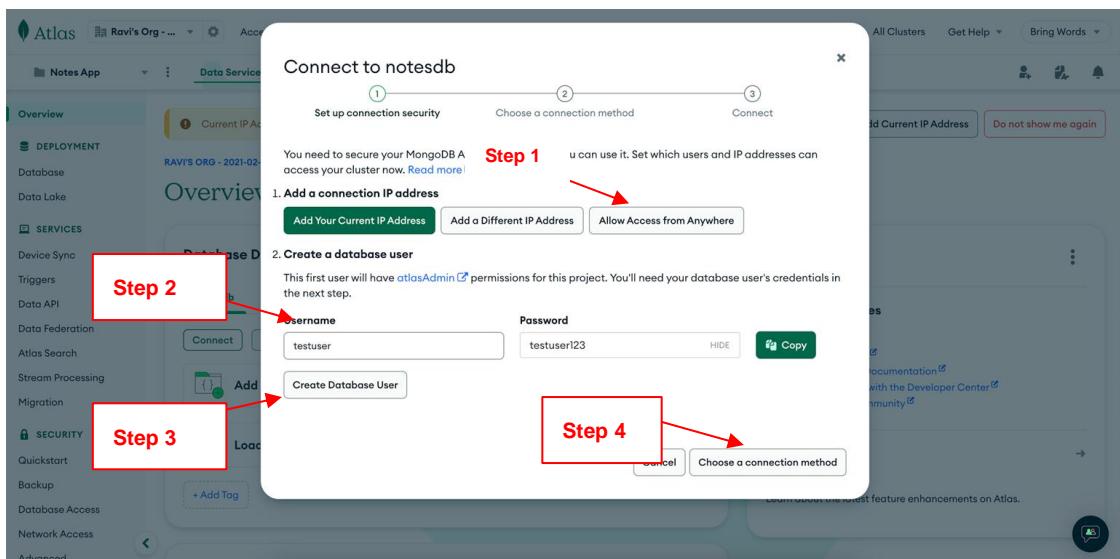
Provider: AWS Step 1

I'll do this later Go to Advanced Configuration Create Deployment

- Choose a cloud provider and region close to you, then click "**Create Deployment**".

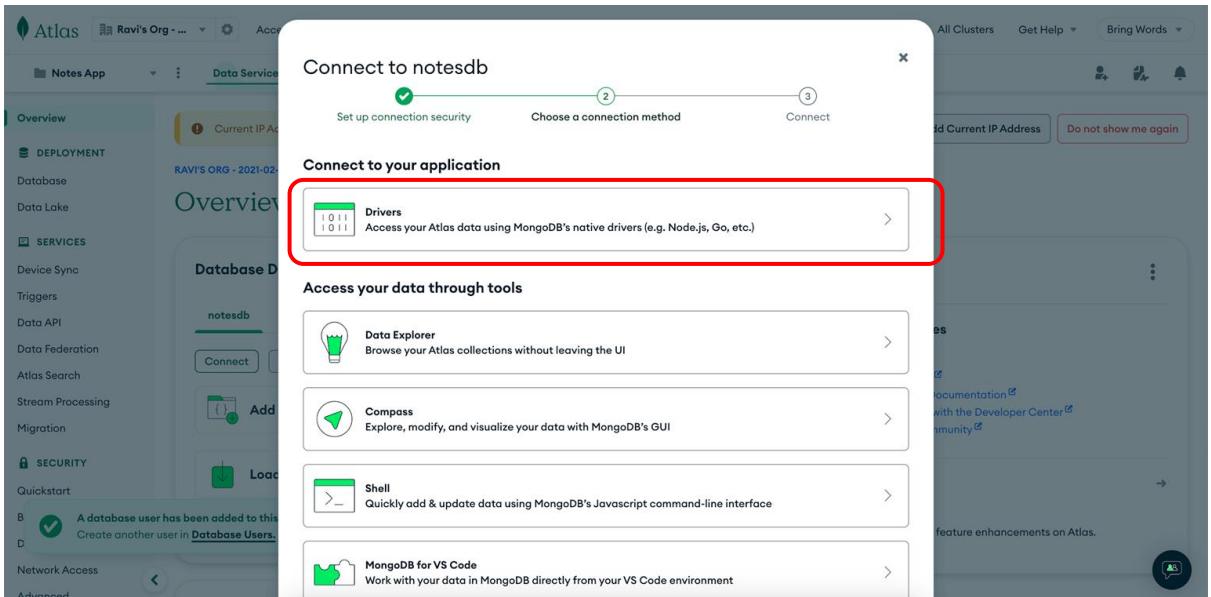


- Once deployment starts, you'll be directed to the connection setup.
- Add your IP address for access (use "Allow Access from Anywhere" if unsure).

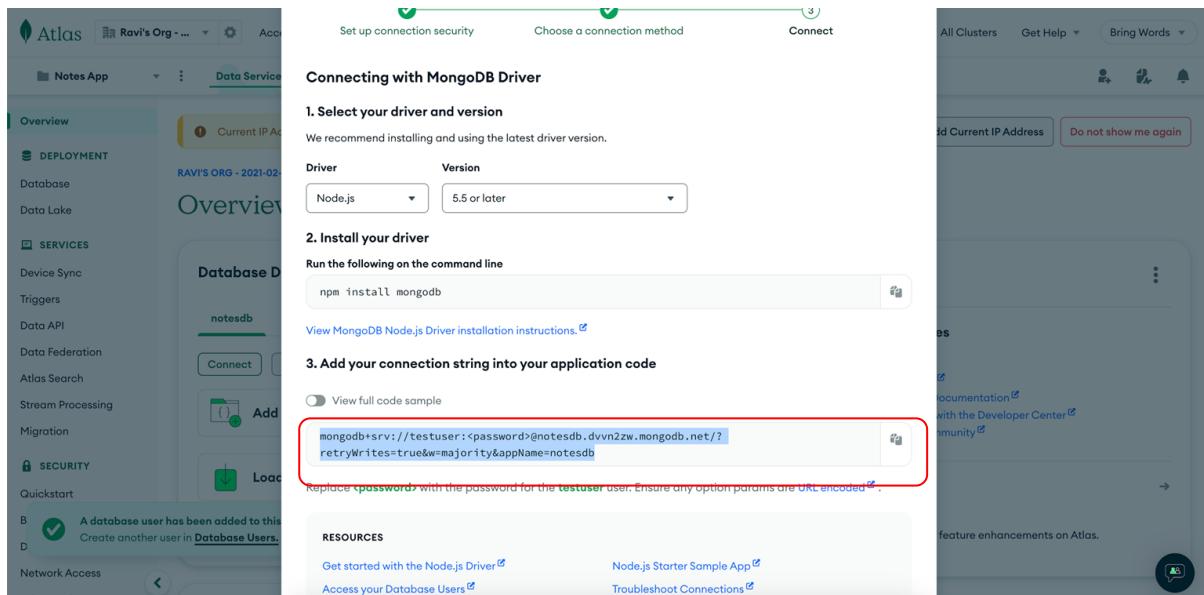


- Create a database user with a username and password.
- Click "Choose a connection method".

- Select the "Drivers" option.



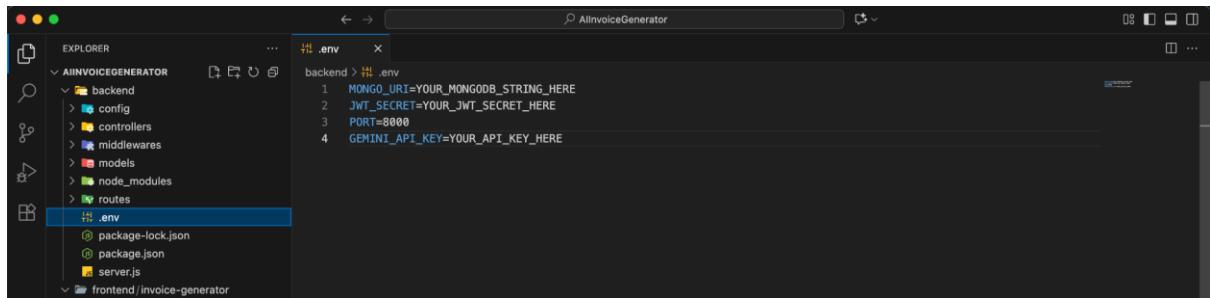
- Copy the Node.js connection string.



4. Update .env File:

- Paste the connection string into your .env file.

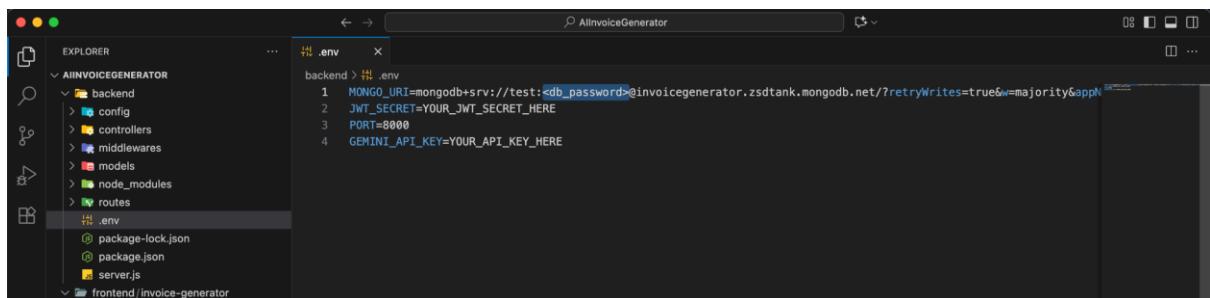
Before:



The screenshot shows the VS Code interface with the project 'AIINVOICEGENERATOR' open. The 'EXPLORER' sidebar on the left shows the project structure with a node.js project. The 'backend' folder contains files like 'config', 'controllers', 'middlewares', 'models', 'node_modules', 'routes', and 'server.js'. Inside the 'backend' folder, there is a '.env' file. The 'CODE' tab is active, displaying the contents of the '.env' file:

```
1 MONGO_URI=YOUR_MONGODB_STRING_HERE
2 JWT_SECRET=YOUR_JWT_SECRET_HERE
3 PORT=8000
4 GEMINI_API_KEY=YOUR_API_KEY_HERE
```

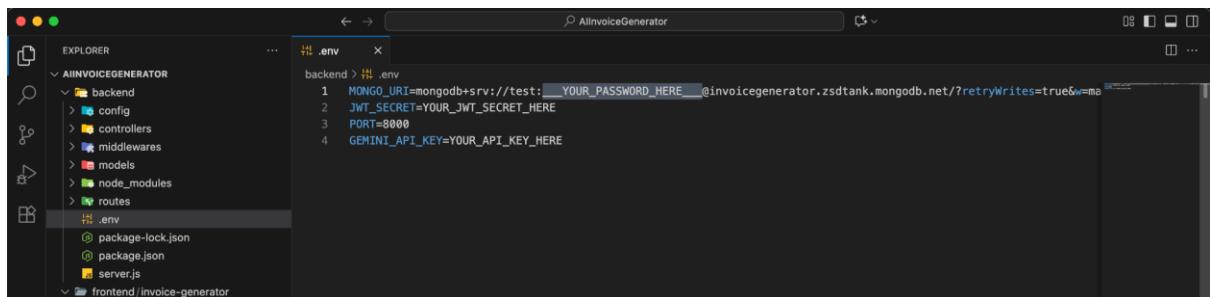
After:



The screenshot shows the VS Code interface with the project 'AIINVOICEGENERATOR' open. The 'EXPLORER' sidebar on the left shows the project structure with a node.js project. The 'backend' folder contains files like 'config', 'controllers', 'middlewares', 'models', 'node_modules', 'routes', and 'server.js'. Inside the 'backend' folder, there is a '.env' file. The 'CODE' tab is active, displaying the contents of the '.env' file:

```
1 MONGO_URI=mongodb+srv://test:<db_password>@invoicegenerator.zsdtank.mongodb.net/?retryWrites=true&w=majority&appName=mongoready
2 JWT_SECRET=YOUR_JWT_SECRET_HERE
3 PORT=8000
4 GEMINI_API_KEY=YOUR_API_KEY_HERE
```

- Replace <db_password> with the password of the database user created earlier.



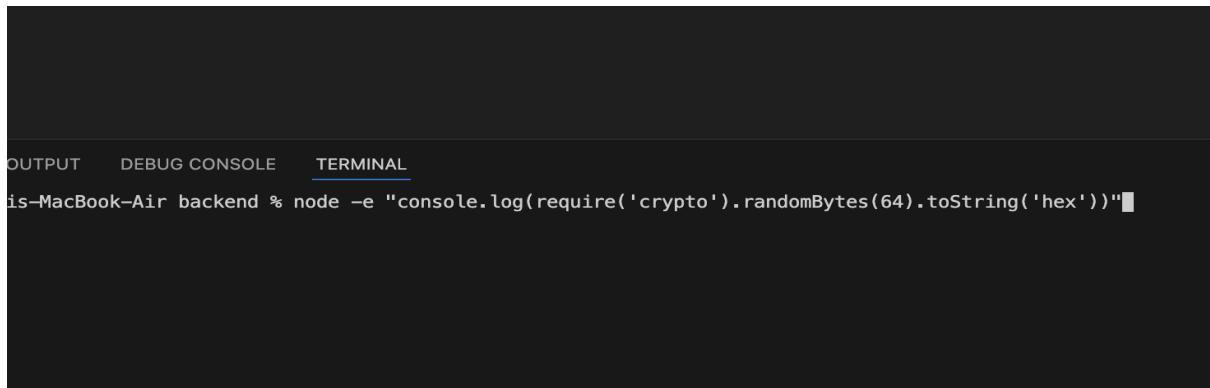
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```
1 MONGO_URI=mongodb+srv://test:__YOUR_PASSWORD_HERE__@invoicegenerator.zsdtank.mongodb.net/?retryWrites=true&w=majority&appName=mongoready
2 JWT_SECRET=YOUR_JWT_SECRET_HERE
3 PORT=8000
4 GEMINI_API_KEY=YOUR_API_KEY_HERE
```

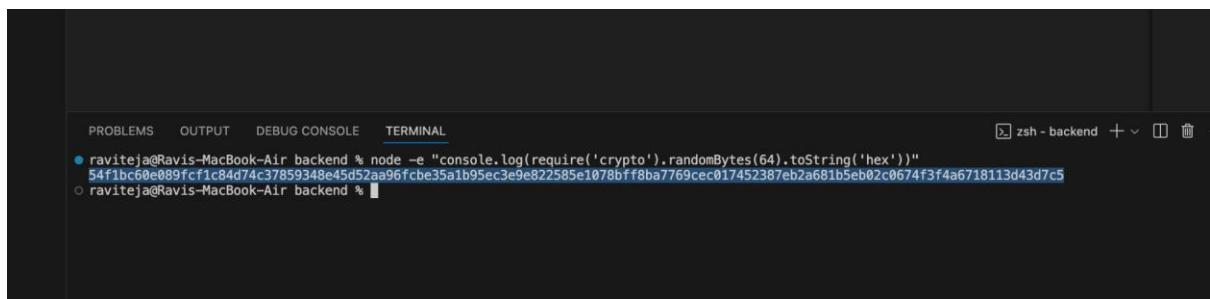
5. Generate JWT Secret:

- Run the following command in your terminal:

```
node -e "console.log(require('crypto').randomBytes(64).toString('hex'))"
```

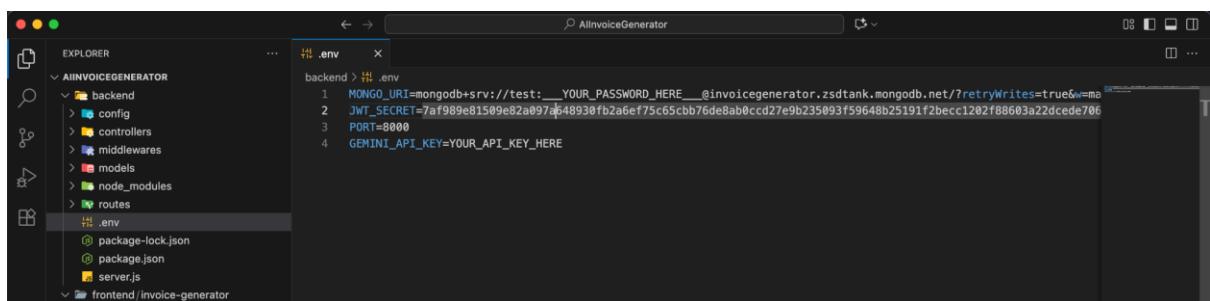


```
OUTPUT DEBUG CONSOLE TERMINAL
is-MacBook-Air backend % node -e "console.log(require('crypto').randomBytes(64).toString('hex'))"
54f1bc60e089fcfc1c84d74c37859348e45d52aa96fcbe35a1b95ec3e9e822585e1078bff8ba7769cec017452387eb2a681b5eb02c0674f3f4a6718113d43d7c5
```



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL zsh - backend + ▾ □ ▻
● raviteja@Ravis-MacBook-Air backend % node -e "console.log(require('crypto').randomBytes(64).toString('hex'))"
54f1bc60e089fcfc1c84d74c37859348e45d52aa96fcbe35a1b95ec3e9e822585e1078bff8ba7769cec017452387eb2a681b5eb02c0674f3f4a6718113d43d7c5
○ raviteja@Ravis-MacBook-Air backend %
```

- Copy the output and set it as `JWT_SECRET` in your `.env` file.

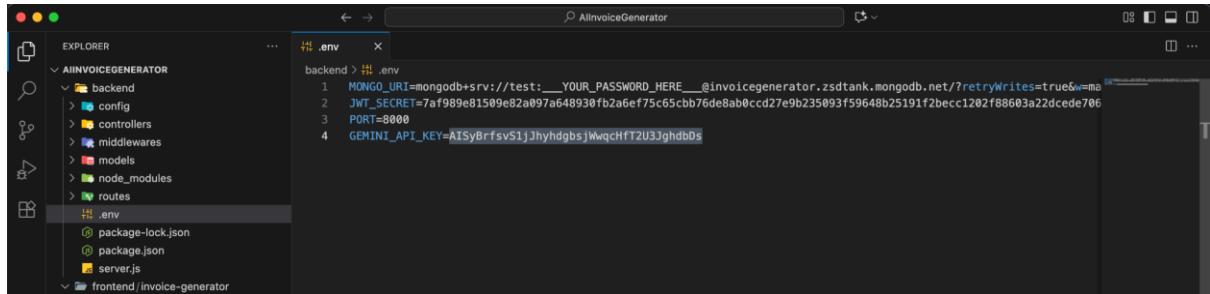


6. Set Up Gemini API Key:

- Go to [Google AI Studio](#)
- Click "Get API Key" and then "Create API Key".

The screenshot shows the Google AI Studio interface. On the left, there's a sidebar with links like 'Studio', 'Dashboard', 'API keys' (which is selected and highlighted in grey), 'Usage & Billing', 'Changelog', 'Documentation', 'Get API key', 'View status', and 'Settings'. The main content area is titled 'API Keys' and contains a section for 'Quickly test the Gemini API' with a 'Code' snippet for cURL. Below this, it says 'Your API keys are listed below. You can also view and manage your project and API keys in Google Cloud.' A table at the bottom lists projects with columns for 'Project number', 'Project name', 'API key', 'Created', and 'Plan'. A red box highlights the 'Create API key' button in the top right corner.

- Copy the API key and paste it into your `.env` file.



- Now, start the server by running:

```
npm run dev
```

Frontend

- Navigate to the `frontend/invoice-generator` folder.

```
cd frontend/invoice-generator
```

- Run the following command to install the required dependencies:

```
npm install
```

- After the installation is complete, start the React development server by running:

```
npm run dev
```

This will start the frontend server and open the app in your default web browser.