

Complete MERN E-Commerce Project with Razorpay Payment Integration & Reset Password Email

1) config.env backend file configuration

JWT_SECRET_KEY=hfdiqwdsafhfdhisfjdgawsd *#Any string of your choice used to sign JWT tokens*

JWT_EXPIRE=3d *#Number of days after which the JWT token expires*

PORT =5000 *#Port number the backend application is running on*

DB_URI="mongodb://localhost:27017/DatabaseName" *#MongoDB connection URI, replace 'DatabaseName' with your database name*

NODE_ENV="DEVELOPMENT"

EXPIRE_COOKIE=7

#SMTP configuration for media management

SMTP_SERVICE="gmail"

SMTP_MAIL="your-email@gmail.com" *#Replace with your email address*

SMTP_PASSWORD="your-app-password" *#Use an app password which was generated for your email*

#Cloudinary configuration for media management

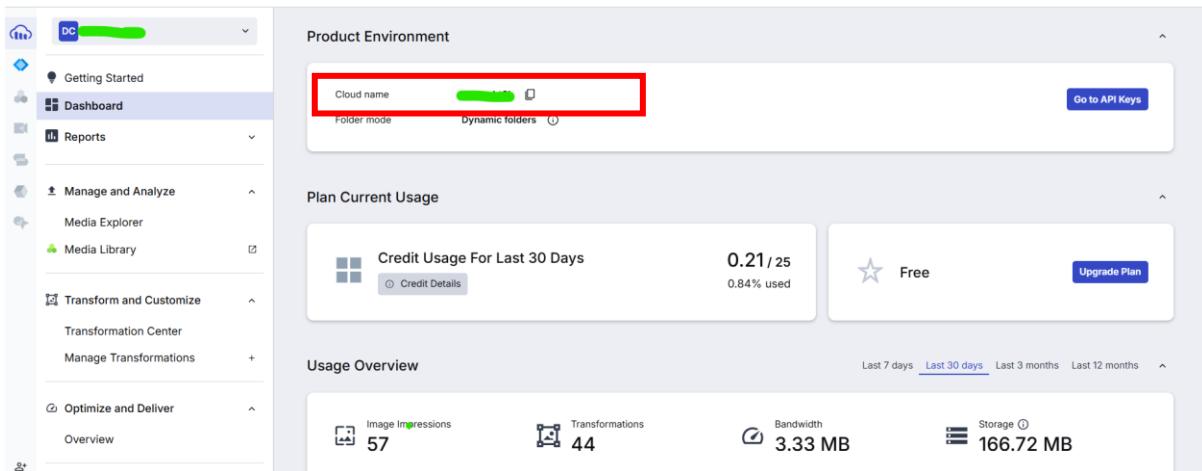
CLOUDINARY_NAME="your-cloud-name" *#Your Cloudinary Cloud name*

API_KEY="your-api-key" *#Your Cloudinary API Key*

API_SECRET="your-api-secret" *#Your Cloudinary API Secret Key*

Link: <https://cloudinary.com/>

➤ Click on Dashboard



Product Environment

Cloud name: [REDACTED] [Go to API Keys](#)

Plan Current Usage

Credit Usage For Last 30 Days: 0.21 / 25 (0.84% used) [Credit Details](#) [Upgrade Plan](#)

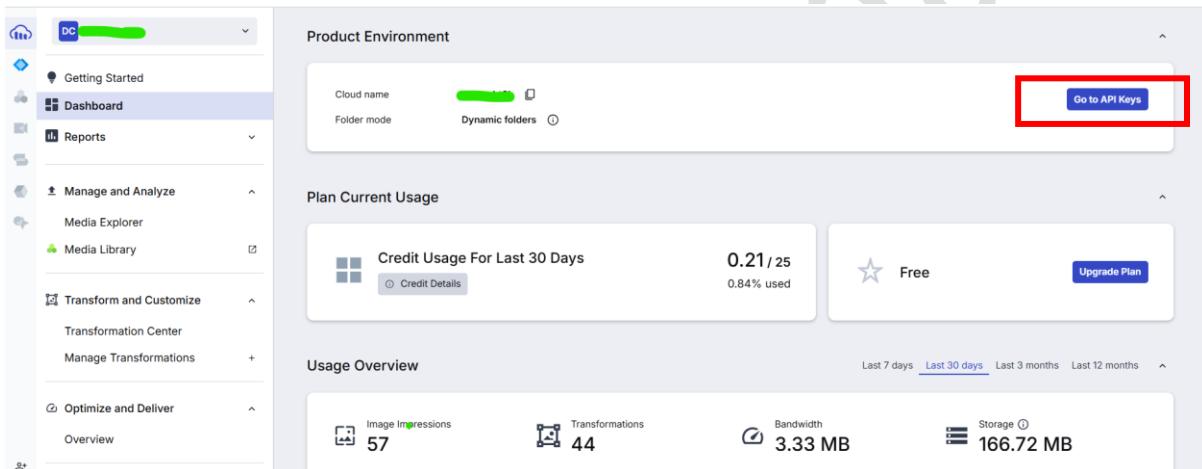
Free

Usage Overview

Last 7 days [Last 30 days](#) [Last 3 months](#) [Last 12 months](#)

Image Impressions	Transformations	Bandwidth	Storage
57	44	3.33 MB	166.72 MB

➤ Click on – Go to API Keys



Product Environment

Cloud name: [REDACTED] [Go to API Keys](#)

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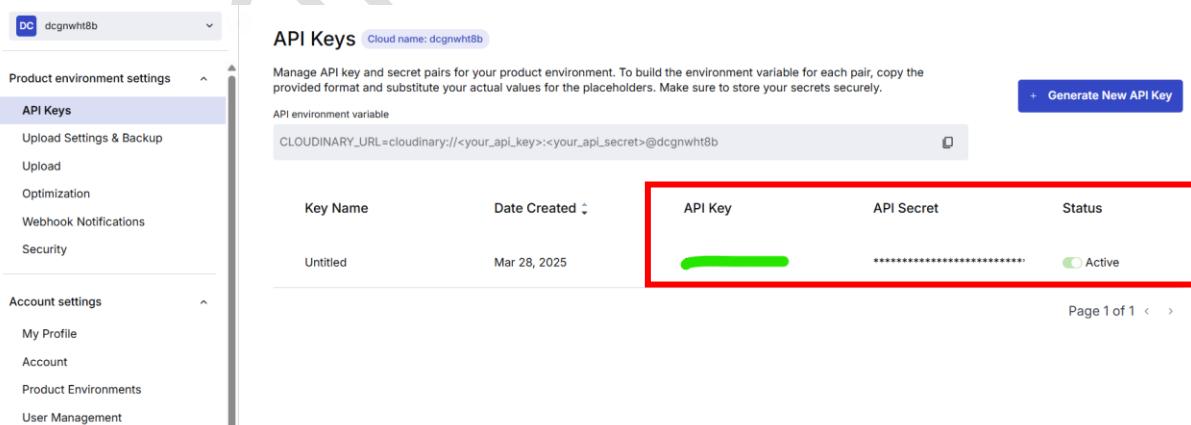
Free

Usage Overview

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➤ Copy API Key and Secret Key



API Keys Cloud name: dcgnwht8b

Manage API key and secret pairs for your product environment. To build the environment variable for each pair, copy the provided format and substitute your actual values for the placeholders. Make sure to store your secrets securely.

+ Generate New API Key

Key Name	Date Created	API Key	API Secret	Status
Untitled	Mar 28, 2025	[REDACTED]	*****	Active

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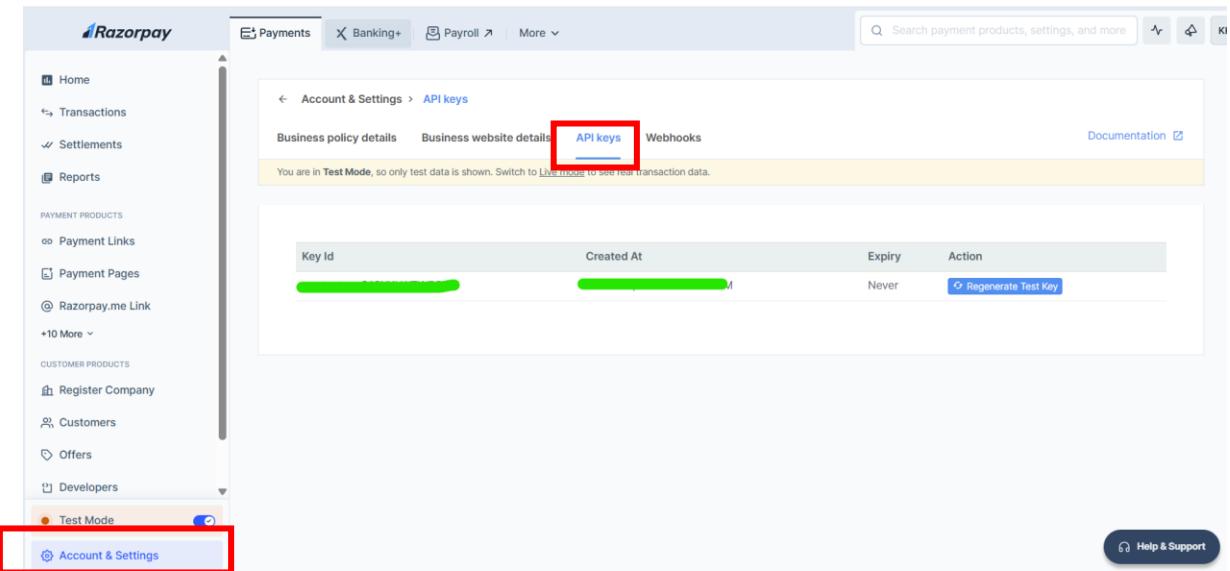
#Razorpay for Payment Integration

RAZORPAY_API_KEY="your-api-key" *#Your Razorpay API Key*

RAZORPAY_API_SECRET="your-api-ssecret" #Your Razorpay Secret Key

Link : <https://razorpay.com/>

- SingUp and Login
- Go to Test Mode
- In Accounts and Settings->click on API Keys
- Here, you will find the Razorpay API Key and Secret Key (download the CSV file)



The screenshot shows the Razorpay dashboard interface. The left sidebar has a 'Test Mode' button highlighted with a red box. The main content area shows the 'Account & Settings' menu with a red box around it. Inside, the 'API keys' tab is also highlighted with a red box. A message at the top says 'You are in Test Mode, so only test data is shown. Switch to Live mode to see real transaction data.' Below is a table with one row of data:

Key Id	Created At	Expiry	Action
[REDACTED]	[REDACTED]	Never	Regenerate Test Key

2)vite.config.js frontend file configuration

Connecting Frontend and Backend

```
import { defineConfig } from 'vite'
import react from '@vitejs/plugin-react'

// https://vite.dev/config/
export default defineConfig({
  plugins: [react()],
  server: {
    proxy: {
      '/api': {
        target: 'http://localhost:5000'
      }
    }
  }
})
```

Target: 'http://localhost:5000' – Give your backend number which is used in backend

3)Refer README.md file for project setup

4)The project is fully customizable, allowing you to tailor the styling, enhance the code, and make any necessary adjustments to meet your requirements.

5)Course Links

Enroll in the courses for a deeper understanding of Redux and Redux Toolkit, which will greatly help you in building and scaling this MERN project.

- React-Redux and Modern Redux Toolkit RTK with Async Thunk :
<https://www.udemy.com/course/react-redux-and-modern-redux-toolkit-rtk-with-async-thunk/?referralCode=0700CFC8564625D3F375>
- Advance MERN Authentication & Secure Email Integration :
<https://www.udemy.com/course/advance-mern-authentication-secure-email-integration/?referralCode=54239C3783027077680B>

6)Social Media Links:

1)Instagram: <https://www.instagram.com/khaiserkhanam/>

2)YouTube: https://www.youtube.com/c/StepbyStep_KhanamCoding

3)LinkedIn: <https://www.linkedin.com/in/khaiserkhanam/>

Notes:

#1 Operating System

This project and the associated video playlist were created on **Windows OS**. However, the project is compatible with **other operating systems** as well (e.g., macOS, Linux).

If the code does not work, it's likely **not an OS issue**. Please verify your project setup and ensure all necessary services are running correctly.

#2 Customization

This project is **completely customizable**. Feel free to:

- Tailor the styling to fit your needs.
- Modify or enhance the codebase according to your requirements.
- Add new features or functionalities as needed.

#3 Community Contribution

If you create something new or improve an existing feature, please consider **sharing your updates** with the community — we'd love to celebrate your work together! 

#4 Courses & Feedback

Check out my **premium courses on Udemy** and:

- Provide your honest feedback and ratings.
- Share suggestions or improvements you'd like to see in future versions.

----- THANK YOU -----