### Donwload and install git program from internet

Check the installed version:

```
Last login: Sun Sep 3 10:03:25 on ttys000
|prince@Princes-MacBook-Air ~ % git -v
git version 2.39.2 (Apple Git-143)
| prince@Princes-MacBook-Air ~ %
```

#### DAY 7

- Git & GitHub
- Git is like a time machine for your code.
- It is a tool that keeps a record of every version of your code, so you can always go back to a previous state if something goes wrong.
- Install Git: If you haven't already, download and install Git on your computer. You can get it from the official Git website: <a href="https://git-scm.com/downloads">https://git-scm.com/downloads</a>
- If you want to work with git in your project →
- Run git init inside the root folder of your project
- This command tells Git to start tracking changes in your project folder.

#### git status

 After making changes to your project (e.g., writing code), you'll want to save those changes in Git.

### git add .

- The . means "add all changes." You can replace it with specific file names if needed.
- gitignore
- The .gitignore file is a special configuration file used in Git repositories to specify files and difectories that should be ignored by Git.
- These ignored files and directories won't be tracked by Git or included in version control.
- · Create .gitignore File

```
.gitignore
1  # Ignore node_modules directory
2  node_modules/
3
4  # Other entries...
5
```

This saves a snapshot of your project's current state.

```
git commit -m "Initial commit"
```

- If you want to collaborate with others or back up your code online, you can create a remote repository on platforms like GitHub
- Link Your Local and Remote Repositories
- If you created a remote repository, you can link it to your local one

git remote add origin https://github.com/yourusername/hotels.git

- Push Changes to Remote
- To send your local commits to the remote repository, use the git push command

git push -u origin master

- Pull Changes
- If you're collaborating with others, you can fetch their changes and merge them into your code using git pull.

# Create repository on github after creating your account.

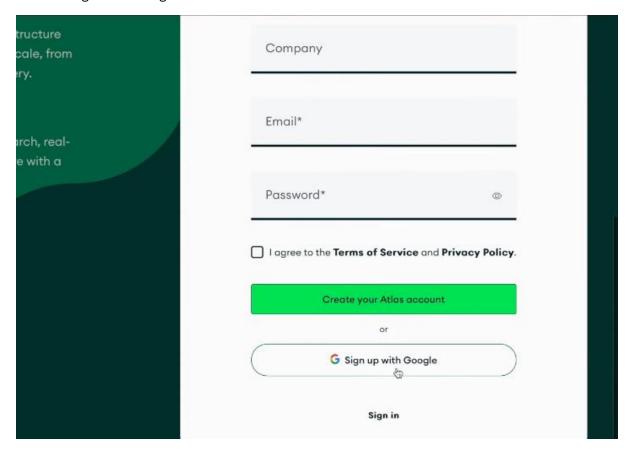
Perform the following commands in the vs terminal to upload the project in the repository

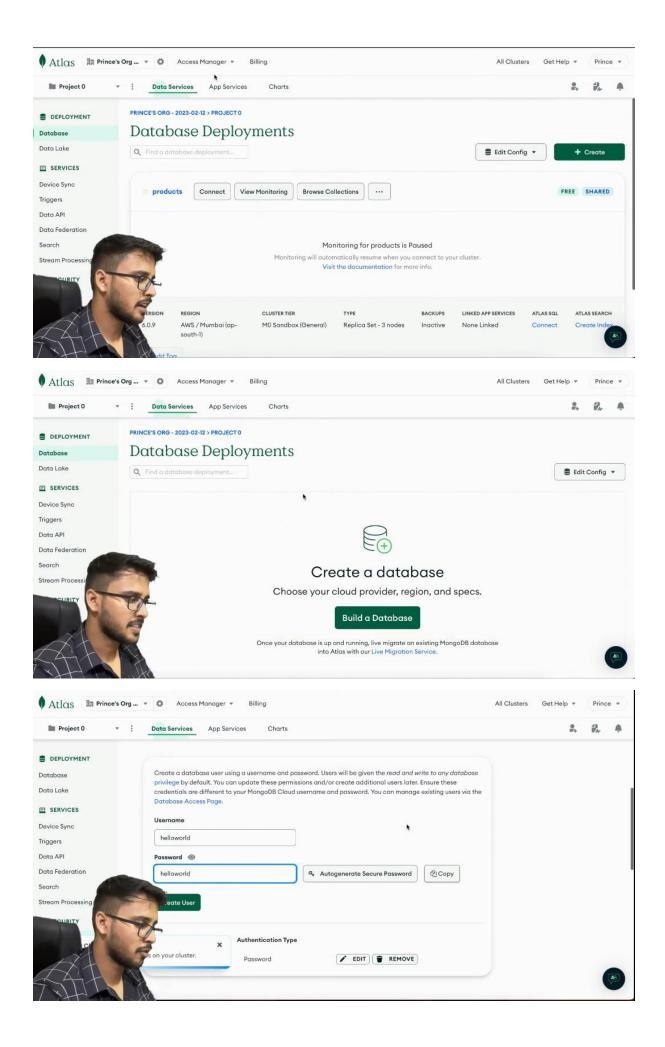
...or push an existing repository from the command line

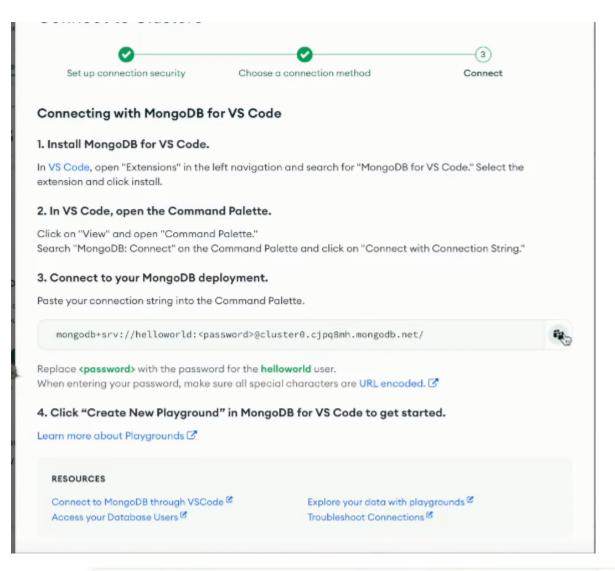
git remote add origin git@github.com:Prince-1501/node\_hotels.git git branch -M main git push -u origin main

- Host MongoDB database
- Now we are running locally MongoDB database.
- All data operation is performed in a local database, so let's host our database server and make our DB online presence
- MongoDB Atlas provides a Free cluster for users where you can host your database for free.
- MongoDB Atlas offers a cloud-based platform for hosting MongoDB databases
- The free tier allows developers to explore and experiment with the database without incurring any costs.
- https://www.mongodb.com/atlas/database
- Create an account for free ( I already have an account )
- Show Step-by-step Process to host MongoDB Atlas

### Create / login on monogdb atlas





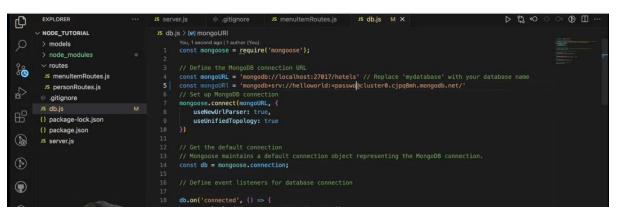


. . .... .

mongodb+srv://helloworld:<password>@cluster0.cjpq8mh.mongodb.net/



## Monodb url:



- Dotenv
- The dotenv module in Node.js is used to manage configuration variables and sensitive information in your applications.
- It's particularly useful for keeping sensitive data like API keys, database connection strings, and other environment-specific configurations separate from your code.

### npm install dotenv

- Create a . env File
- · This is where you'll store your environment-specific configuration variables.
- format VAR\_NAME=value.



# PORT=3000 API\_KEY=your-api-key DB\_CONNECTION\_STRING=your-db-connection-string

 In your server file (usually the main entry point of your application), require and configure the dotenv module.

# require('dotenv').config();

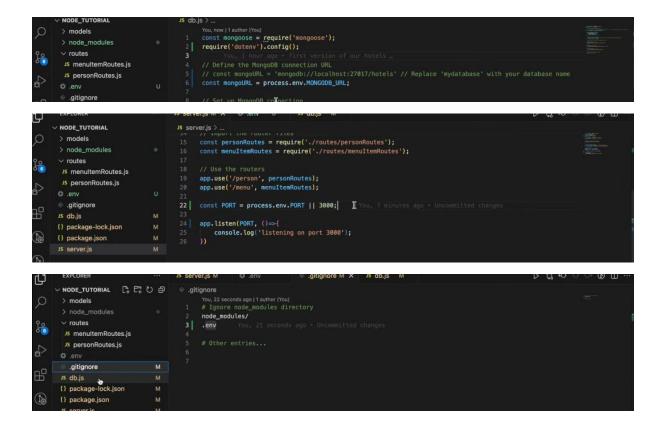
Access Configuration Variables:

```
const port = process.env.PORT || 3000; // Use 3000 as a default
if PORT is not defined
const apiKey = process.env.API_KEY;
const dbConnectionString = process.env.DB_CONNECTION_STRING;
```

Remember to keep your .env file secure and never commit it to a public

version control system like Git, as it may contain sensitive information. Typically, you should include the .env file in your project's .gitignore file to prevent accidental commits.

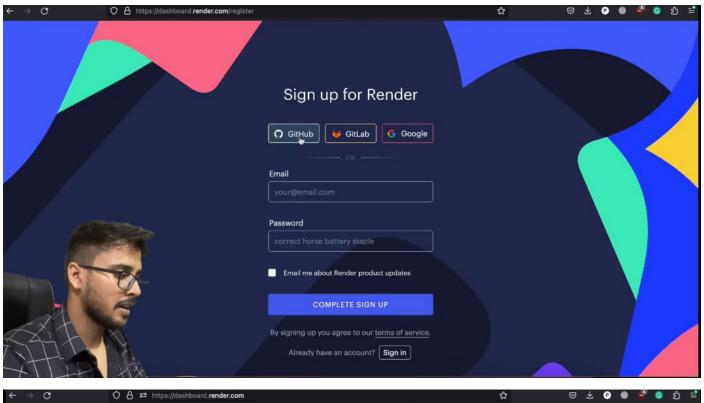
- Test MongoDB Cluster Postman
- Now we can test the MongoDB Cluster and check whether our data is present or not in the online DB

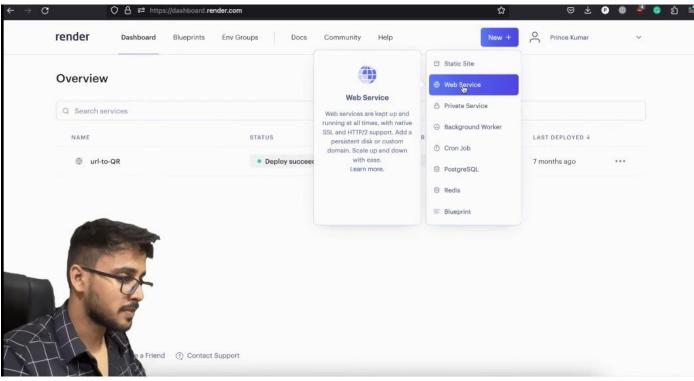


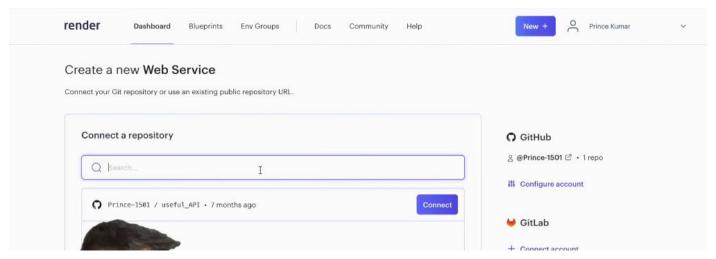
#### Host NodeJS Server

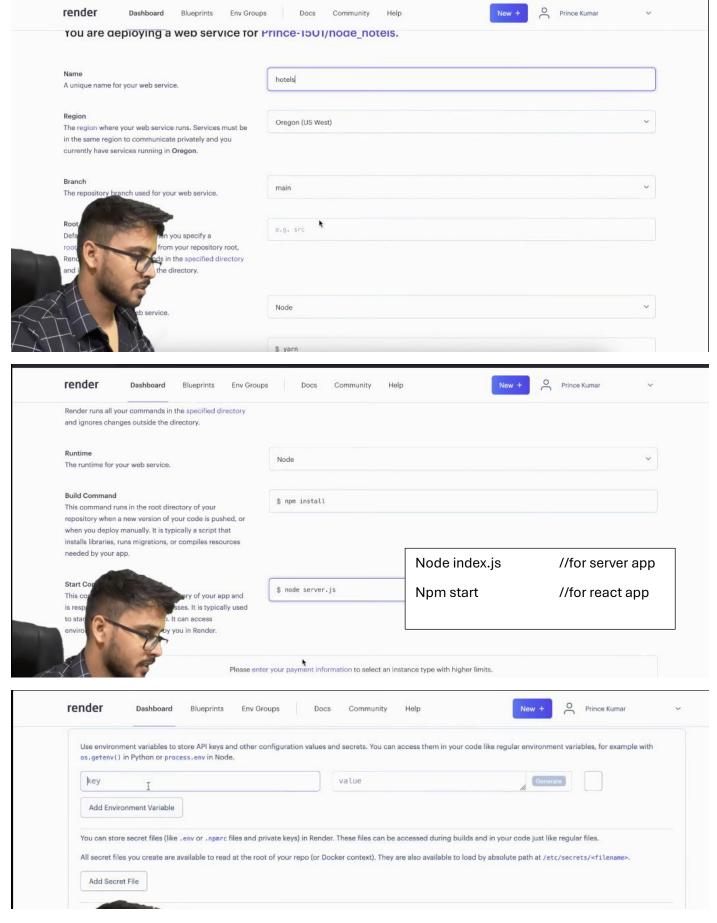
- Now we are going to host our server so that our Application or Endpoints is accessible to all the user over the Internet.
- We are using localhost and our endpoints are only accessible within our computer
- We have to make it publicly available, so there are lots of company who helps us to make our application run 24\*7
- Like, AWS, Google Clond, etc. but these charge too much amount for our application
- So we are going to use some free services to host our nodeJS application, which lots of company provides for developer purpose.
- · Like, Heroku, Netlify, Render, etc

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If network error occurs during fetching data from mongodb through this online url,

Add the ip address 0.0.0.0 in the whitelist of ip address on the monogdb atlas server through database->security->network access