

A guide to deploy a MERN app on Render

Backend (Node) Server Folder

1. A completed MERN app is uploaded (pushed) in your Github's Repository.

RAJMEH753 / zomato_clone_1

Type to search

<> Code Issues Pull requests Actions Projects Security Insights Settings

zomato_clone_1 Public

Unpin Stop ignoring 0 Fork 1 Star 2

main 1 Branch 0 Tags Go to file Add file <> Code About

Prof-TG Final Changes done (13/04/2024) b88f0a2 · 11 hours ago 9 Commits

Client Final Changes done (13/04/2024) 11 hours ago

Server Final Changes done (13/04/2024) 11 hours ago

.gitattributes Initial commit last month

.gitignore Initial commit last month

README

No description, website, or topics provided.

Activity 2 stars 0 watching 1 fork

Releases No releases published Create a new release

2. Visit to [Render.com](#)

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3. Click on **Dashboard** (in the top-right corner) and create an account (preferably through your [GitHub account](#) to connect the repository in a single step) or Login.

4. After login, it will redirect to Render's **Dashboard** page.

The screenshot shows the Render dashboard with the following interface elements:

- Header:** Render logo, Dashboard, Blueprints, Env Groups, Docs, Community, Help, New + (highlighted in blue), User profile (Rajeev Mehra), and a dropdown menu.
- Section:** Overview
- Search Bar:** Q. Search services
- Filter Buttons:** Active 4, Suspended 0, All 4
- Table:** Displays service details:

Service Name	Status	Type	Runtime	Region	Last Deployed	Actions
Weather_App	Deployed	Static Site	Static	Global	a month ago	...
netflix_full_clone	Deployed	Web Service	Node	Singapore	a month ago	...
countDown2025	Deployed	Static Site	Static	Global	a month ago	...
netflix-clone	Deployed	Static Site	Static	Global	2 months ago	...

5. If you have any existing projects hosted in Render can be seen on this page, neither will show as empty.

Click on the **New +** button on the top part of the nav bar and select **Web Services** from the dropdown.

The screenshot shows the Render dashboard with a modal window open over the service list, specifically for creating a new Web Service. The modal contains the following information:

- Section:** Web Service
- Description:** Web services are kept up and running at all times, with native SSL and HTTP/2 support. Add a persistent disk or custom domain. Scale up and down with ease.
- Buttons:** Learn more, Static Site, Web Service (highlighted in purple), Private Service, Background Worker, Cron Job, PostgreSQL, Redis, Blueprint.
- Table:** Displays service details (same as the main dashboard):

Service Name	Status	Type	Runtime	Region	Last Deployed	Actions
Weather_App	Deployed	Static Site	Static	Global	a month ago	...
netflix_full_clone	Deployed	Web Service	Node	Singapore	a month ago	...

6. Redirects you to a page to create a new web service select **Build and deploy from a Git repository** and click the **Next button** present below.

The screenshot shows the Render platform's 'Create a new Web Service' interface. At the top, there are navigation links for Dashboard, Blueprints, Env Groups, Docs, Community, and Help. On the far right, there is a 'New +' button, a user profile icon for 'Rajeev Mehra', and a dropdown menu. The main section is titled 'Create a new Web Service' with the sub-instruction 'Connect a Git repository, or use an existing image.' Below this, there are two options:

- Build and deploy from a Git repository
Connect a GitHub or GitLab repository.
- Deploy an existing image from a registry ADVANCED
Pull a public image from any registry or a private image from Docker Hub, GitHub, or GitLab.

A large blue 'Next' button is located at the bottom right of the form.

7. If you have already chosen the repository, it will show all the repositories existing in the account, neither you need first to select your repository to connect to get the list of repositories existing in your linked account.

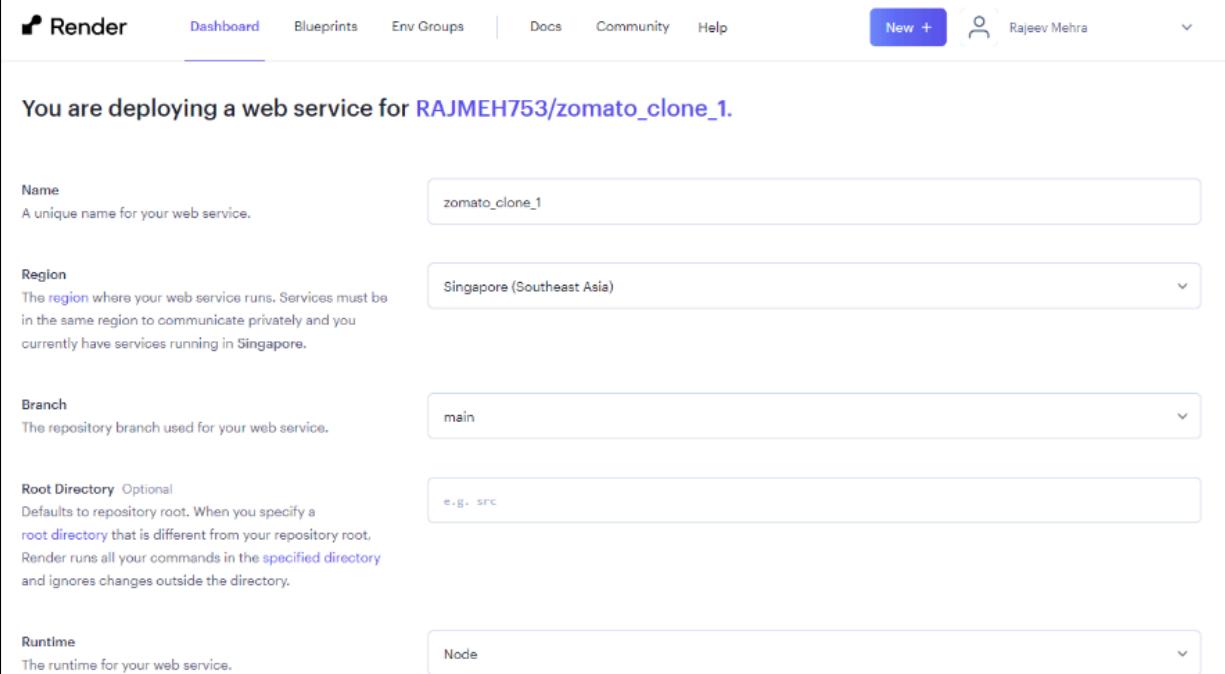
The screenshot shows the 'Connect a repository' page. At the top, there are navigation links for Dashboard, Blueprints, Env Groups, Docs, Community, and Help. On the far right, there is a 'New +' button, a user profile icon for 'Rajeev Mehra', and a dropdown menu. The main section is titled 'Create a new Web Service' with the sub-instruction 'Connect your Git repository or use an existing public repository URL.' Below this, there is a search bar labeled 'Search...' and a list of repositories from the user's GitHub account ('@RAJMEH753'):

- RAJMEH753 / zomato_clone_1 + 12 hours ago Connect
- RAJMEH753 / Zomato_Clone + 3 days ago Connect
- RAJMEH753 / weather_app_python + 16 days ago Connect
- RAJMEH753 / sample-80 + a month ago Connect
- RAJMEH753 / Node_Video + a month ago Connect
- RAJMEH753 / weather_app + a month ago Connect

To the right of the repository list, there are sections for connecting to other platforms:

- GitHub**: Shows the user '@RAJMEH753' with 10 repos. Buttons: 'Configure account' and '+ Connect account'.
- GitLab**: Shows '+ Connect account'.
- Bitbucket**: Shows '+ Connect account'.

8. Select your respective repository to be hosted by clicking on the **Connect** button next to it. It will take you to the next page like below.



The screenshot shows the Render web service deployment configuration page. At the top, there are navigation links: Dashboard, Blueprints, Env Groups, Docs, Community, Help, a New + button, and a user profile for Rajeev Mehra. Below the header, a message says "You are deploying a web service for RAJMEH753/zomato_clone_1." The configuration fields are as follows:

- Name:** zomato_clone_1
- Region:** Singapore (Southeast Asia)
- Branch:** main
- Root Directory (Optional):** e.g., src
- Runtime:** Node

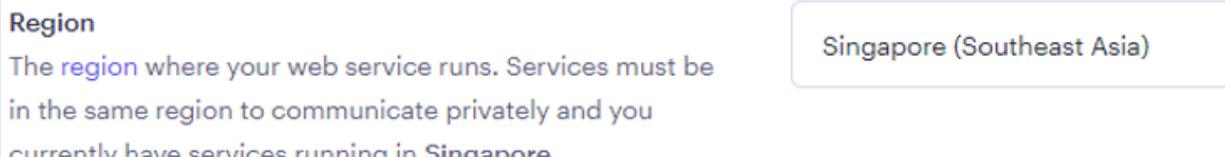
9. Start entering all the details as listed below:

- a. Enter a unique name for your Web Service



The screenshot shows a configuration field for the "Name" of the web service. The label "Name" is on the left, and the input field contains "zomato_clone_1". Below the label, a placeholder text says "A unique name for your web service."

- b. By default it will choose a Region with the best service as per location you can still manually change. (Will not showcase any difference in publishing a website.)



The screenshot shows a configuration field for the "Region" of the web service. The label "Region" is on the left, and the input field contains "Singapore (Southeast Asia)". Below the label, a placeholder text says "The region where your web service runs. Services must be in the same region to communicate privately and you currently have services running in Singapore."

- c. Choose the main branch (default) if you have any other branch in your git to be published can be chosen.



The screenshot shows a configuration field for the "Branch" of the web service. The label "Branch" is on the left, and the input field contains "main". Below the label, a placeholder text says "The repository branch used for your web service."

- d. Choose the respective folder in git which you would select to operate upon.

Root Directory Optional
Defaults to repository root. When you specify a [root directory](#) that is different from your repository root, Render runs all your commands in the [specified directory](#) and ignores changes outside the directory.

Server

- > Client
- > Server
- .gitattributes
- .gitignore

In Git the folder structure

- e. Select Runtime from the given option as **Node**, on which our code runs.

Runtime
The runtime for your web service.

Node

- f. In Build Command, type the build query to be run. And do make the following Changes in the Server's (Node) `package.json` file also as mentioned below.

Build Command
This command runs in the root directory of your repository when a new version of your code is pushed, or when you deploy manually. It is typically a script that installs libraries, runs migrations, or compiles resources needed by your app.

Server/

\$ npm run build

```
{
  "name": "zomato_backend",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "dev": "nodemon app.js",
    "build": "npm i"
  },
  "author": "",
  "license": "ISC",
  "dependencies": {
    "cookie-session": "^2.1.0",
    "cors": "^2.8.5",
    "dotenv": "^16.4.5",
    "express": "^4.18.3",
    "mongoose": "^8.2.0",
    "nodemon": "^3.1.0",
    "passport": "^0.5.3",
    "passport-google-oauth2": "^0.2.0",
    "razorpay": "^2.9.2"
  }
}
```

Add this line of
“build”: “npm i”

- g. In Start Command, type the command line to start the application, like here in the above one I have used **dev** so I have mentioned **npm run dev**, and if you have written it as **start** then mention it as **npm run start**.

Start Command

This command runs in the root directory of your app and is responsible for starting its processes. It is typically used to start a webserver for your app. It can access environment variables defined by you in Render.

```
{
  "name": "zomato_backend",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  // Debug
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1",
    "dev": "nodemon app.js",
    "build": "npm i"
  },
  "author": "",
  "license": "ISC",
  "dependencies": [
    "cookie-session": "^2.1.0",
    "cors": "^2.8.5",
    "dotenv": "^16.4.5",
    "express": "^4.18.3",
    "mongoose": "^8.2.0",
    "nodemon": "^3.1.0",
    "passport": "^0.5.3",
    "passport-google-oauth2": "^0.2.0",
    "razorpay": "^2.9.2"
  ]
}
```

Add this line of
“dev”: “nodemon app.js”

- h. Choose the **Instance Type**, basically the payment structure, for free choose the **hobby projects**.

Instance Type

<p>For hobby projects</p>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Free \$0 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 512 MB (RAM) 0.1 CPU </div>	<div style="color: #f0c987; font-size: 0.8em;">⚠ Upgrade to enable more features</div> <p>Free instances spin down after periods of inactivity. They do not support SSH access, scaling, one-off jobs, or persistent disks. Select any paid instance type to enable these features.</p>
<p>For professional use</p> <p>For more power and to get the most out of Render, we recommend using one of our paid instance types. All paid instances support:</p> <ul style="list-style-type: none"> Zero Downtime SSH Access Scaling One-off jobs Support for persistent disks 	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Starter \$7 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 512 MB (RAM) 0.5 CPU </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Standard \$25 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 2 GB (RAM) 1 CPU </div>
	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Pro \$85 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 4 GB (RAM) 2 CPU </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Pro Plus \$175 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 8 GB (RAM) 4 CPU </div>
	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Pro Max \$225 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 16 GB (RAM) 4 CPU </div>	<div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> Pro Ultra \$450 / month </div> <div style="border: 1px solid #ccc; padding: 5px;"> 32 GB (RAM) 8 CPU </div>

Need a [custom instance type](#)? We support up to 512 GB RAM and 64 CPUs.

- i. Next in **Environment Variables**, choose the option of Add from .env and paste all the env commands present in the server folder.

KEY_ID	rzp_test_UI77aZ9xCX3yQ7
KEY_SECRET	7jv60KodbwgtPhMAxvy10By0
MONGO_URL	mongodb+srv://admin:R0jBkS9L0JASnaXQ@zomato-clone-clone-1-1.onrender.com?retryWrites=true&w=majority
GOOGLE_CLIENT_ID	52578293545-1cGFoQ6gcpZcG3Z3-X9b67W4V6RM
GOOGLE_CLIENT_SECRET	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
REACT_URL	https://zomato-clone-1-1.onrender.com

- j. Rest leave it as it is and click on **Create Web Service** button.

Create Web Service

- k. The installation and running of the server starts.

April 15, 2024 at 6:51 PM *** Building
b299b48 Update app.js

[Cancel deploy](#)

And wait till it is live.

April 15, 2024 at 6:51 PM Live
b299b48 Update app.js

- l. Find the link (URL) on which your web page is live.



- m. Use this link as we used in Postman with the URL in the browser.

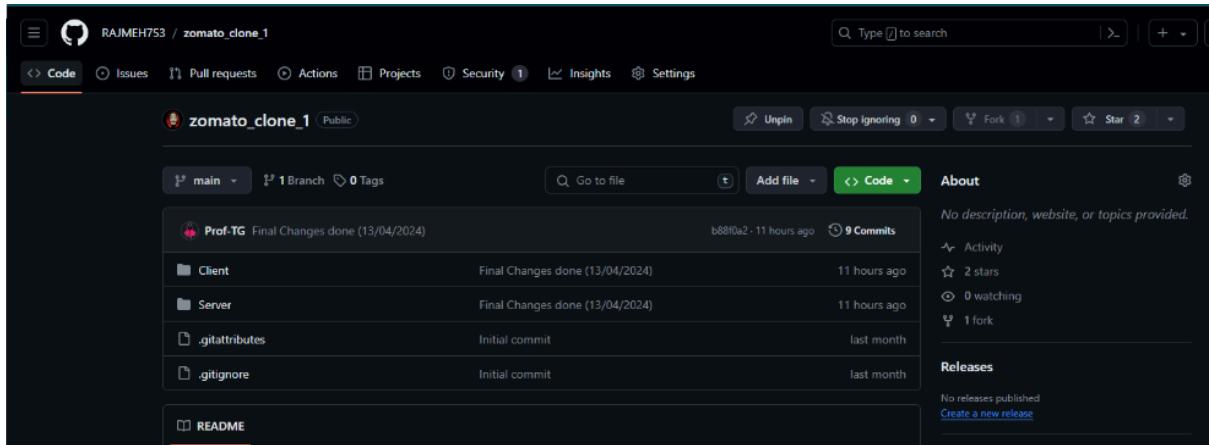
```

{
  "message": "Mealytype Fetched Successfully",
  "meal": [
    {
      "id": "6",
      "name": "Nightlife",
      "content": "Start your day with exclusive Nightlife options",
      "image": "6.png"
    },
    {
      "id": "3",
      "name": "Dinner",
      "content": "Start your day with exclusive Dinner options",
      "image": "3.png"
    },
    {
      "id": "7",
      "name": "Snacks",
      "content": "Start your day with exclusive Snacks options",
      "image": "4.png"
    },
    {
      "id": "1",
      "name": "Breakfast",
      "content": "Start your day with exclusive breakfast options",
      "image": "1.png"
    },
    {
      "id": "5",
      "name": "Drink",
      "content": "Start your day with exclusive Drinks options",
      "image": "5.png"
    },
    {
      "id": "2",
      "name": "Lunch",
      "content": "Start your day with exclusive Lunch options",
      "image": "2.png"
    }
  ]
}

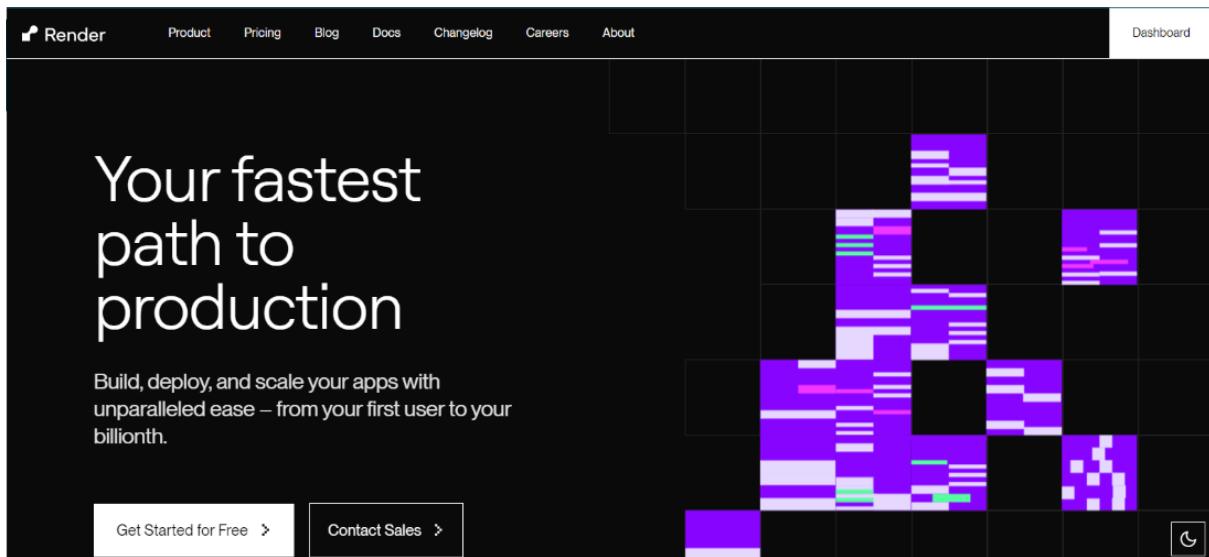
```

Frontend (React) Client Folder

1. A completed MERN app is uploaded (pushed) in your Github's Repository.



2. Visit to [Render.com](#)



3. Click on **Dashboard** (in the top-right corner) and create an account (preferably through your [GitHub account](#) to connect the repository in a single step) or Login.

4. After login, it will redirect to Render's **Dashboard page**.

The screenshot shows the Render Dashboard's Overview page. At the top, there is a navigation bar with links for Dashboard, Blueprints, Env Groups, Docs, Community, Help, and a New + button. A user profile for 'Rajeev Mehra' is also visible. Below the navigation is a search bar labeled 'Search services'. A filter bar at the top right shows 'Active 4', 'Suspended 0', and 'All 4'. A table below lists four services:

Service Name	Status	Type	Runtime	Region	Last Deployed	Actions
Weather_App	Deployed	Static Site	Static	Global	a month ago	...
netflix_full_clone	Deployed	Web Service	Node	Singapore	a month ago	...
countDown2025	Deployed	Static Site	Static	Global	a month ago	...
netflix-clone	Deployed	Static Site	Static	Global	2 months ago	...

5. If you have already chosen the repository, it will show all the repositories existing in the account, neither you need first to select your repository to connect to get the list of repositories existing in your linked account.

The screenshot shows the 'Create a new Static Site' page. At the top, there is a navigation bar with links for Dashboard, Blueprints, Env Groups, Docs, Community, Help, and a New + button. A user profile for 'Rajeev Mehra' is also visible. Below the navigation is a heading 'Create a new Static Site' with the sub-instruction 'Connect your Git repository or use an existing public repository URL.' On the left, there is a 'Connect a repository' section with a search bar and a list of repositories from the user's GitHub account:

- RAJMEH753 / zomato_clone_1 + a day ago
- RAJMEH753 / zomato_Clone + 4 days ago
- RAJMEH753 / weather_app_python + 17 days ago
- RAJMEH753 / sample-80 + a month ago
- RAJMEH753 / Node_Video + a month ago
- RAJMEH753 / weather_app + a month ago

Each repository entry has a 'Connect' button next to it. To the right of this section, there are links for connecting to other platforms:

- GitHub**: @RAJMEH753 + 10 repos, Configure account
- GitLab**: Connect account
- Bitbucket**: Connect account

6. Select your respective repository to be hosted by clicking on the **Connect button** next to it. It will take you to the next page like below.

7. If you have any existing projects hosted in Render can be seen on this page, neither will show as empty.

Click on the **New +** button on the top part of the nav bar and select **Web Services** from the dropdown.

The screenshot shows the Render dashboard with the 'Overview' tab selected. At the top right, there is a 'New +' button with a plus sign, which has been clicked to open a dropdown menu. The 'Web Service' option is highlighted in blue. The main area displays two services: 'Weather_App' and 'netflix_full_clone', both in a 'Deployed' status. To the right, there is a sidebar with filtering options: 'Active 4', 'Suspended 0', and 'All 4'. Below the sidebar, there is a section titled 'LAST DEPLOYED' showing the deployment times for each service.

8. Redirects you to a page to create a new web service select **Build and deploy from a Git repository** and click the **Next button** present below.

The screenshot shows the 'Create a new Web Service' page. The title is 'Create a new Web Service' and a sub-instruction says 'Connect a Git repository, or use an existing image.' Below this, there is a question 'How would you like to deploy your web service?'. Two options are available: 'Build and deploy from a Git repository' (selected) and 'Deploy an existing image from a registry'. A small 'ADVANCED' link is next to the second option. At the bottom right of the page is a large blue 'Next' button.

9. If you have already chosen the repository, it will show all the repositories existing in the account, neither you need first to select your repository to connect to get the list of repositories existing in your linked account.

The screenshot shows the Render platform's 'Create a new Web Service' page. At the top, there is a navigation bar with links for Dashboard, Blueprints, Env Groups, Docs, Community, Help, a 'New +' button, and a user profile for Rajeev Mehra. Below the navigation, the main area is titled 'Create a new Web Service' and includes a sub-instruction: 'Connect your Git repository or use an existing public repository URL.' A search bar labeled 'Search...' is present. On the left, a section titled 'Connect a repository' lists six GitHub repositories connected to the account, each with a 'Connect' button. The repositories are:

- RAJMEH753 / zomato_clone_1 + 12 hours ago
- RAJMEH753 / Zomato_Clone + 3 days ago
- RAJMEH753 / weather_app_python + 16 days ago
- RAJMEH753 / sample-B0 + a month ago
- RAJMEH753 / Node_Video + a month ago
- RAJMEH753 / weather_app + a month ago

To the right of this list, there are three sections for connecting to other platforms:

- GitHub**: Shows the user's GitHub account (@RAJMEH753) with 10 repos. There is a 'Configure account' link.
- GitLab**: Shows a '+ Connect account' link.
- Bitbucket**: Shows a '+ Connect account' link.

10. Select your respective repository to be hosted by clicking on the **Connect** button next to it. It will take you to the next page like below.

The screenshot shows the Render web service deployment configuration page. At the top, there are navigation links: Dashboard, Blueprints, Env Groups, Docs, Community, Help, and a New + button. The user is Rajeev Mehra. Below the header, the text "You are deploying a web service for RAJMEH753/zomato_clone_1." is displayed. The configuration fields are as follows:

- Name:** zomato_clone_1
- Region:** Singapore (Southeast Asia)
- Branch:** main
- Root Directory (Optional):** e.g., src
- Runtime:** Node

11. Start entering all the details as listed below:

- a. Enter a unique name for your Web Service

The Name configuration field is shown. The label "Name" is on the left, and the input field contains "zomato_clone_1". A placeholder text "A unique name for your web service." is visible below the input field.

- b. By default it will choose a Region with the best service as per location you can still manually change. (Will not showcase any difference in publishing a website.)

The Region configuration field is shown. The label "Region" is on the left, and the input field contains "Singapore (Southeast Asia)". A placeholder text "The region where your web service runs. Services must be in the same region to communicate privately and you currently have services running in Singapore." is visible below the input field.

- c. Choose the main branch (default) if you have any other branch in your git to be published can be chosen.

The Branch configuration field is shown. The label "Branch" is on the left, and the input field contains "main". A placeholder text "The repository branch used for your web service." is visible below the input field.

- n. Choose the respective folder in git which you would select to operate upon.

Root Directory Optional

Defaults to repository root. When you specify a [root directory](#) that is different from your repository root, Render runs all your commands in the specified directory and ignores changes outside the directory.

Client

In Git the folder structure
 > Client
 > Server
 .gitattributes
 .gitignore

- o. Select Runtime from the given option as **Node**, on which our code runs.

Runtime

The runtime for your web service.

Node

- p. In Build Command, type the install query to be run.

Build Command

This command runs in the root directory of your repository when a new version of your code is pushed, or when you deploy manually. It is typically a script that installs libraries, runs migrations, or compiles resources needed by your app.

Client/ \$ npm install

- q. In Start Command, type the command line to start the application.

Start Command

This command runs in the root directory of your app and is responsible for starting its processes. It is typically used to start a webserver for your app. It can access environment variables defined by you in Render.

Client/ \$ npm start

- r. Choose the **Instance Type**, basically the payment structure, for free choose the **hobby projects**.

Instance Type

<p>For hobby projects</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Free \$0 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 512 MB (RAM) 0.1 CPU </td> </tr> </table>	Free \$0 / month	512 MB (RAM) 0.1 CPU	<p>Upgrade to enable more features</p> <p>Free instances spin down after periods of inactivity. They do not support SSH access, scaling, one-off jobs, or persistent disks. Select any paid instance type to enable these features.</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Starter \$7 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 512 MB (RAM) 0.5 CPU </td> </tr> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Standard \$25 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 2 GB (RAM) 1 CPU </td> </tr> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Pro \$85 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 4 GB (RAM) 2 CPU </td> </tr> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Pro Plus \$175 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 8 GB (RAM) 4 CPU </td> </tr> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Pro Max \$225 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 16 GB (RAM) 4 CPU </td> </tr> <tr> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> Pro Ultra \$450 / month </td> <td style="width: 50%; padding: 10px; border: 1px solid #ccc; border-radius: 5px;"> 32 GB (RAM) 8 CPU </td> </tr> </table>	Starter \$7 / month	512 MB (RAM) 0.5 CPU	Standard \$25 / month	2 GB (RAM) 1 CPU	Pro \$85 / month	4 GB (RAM) 2 CPU	Pro Plus \$175 / month	8 GB (RAM) 4 CPU	Pro Max \$225 / month	16 GB (RAM) 4 CPU	Pro Ultra \$450 / month	32 GB (RAM) 8 CPU
Free \$0 / month	512 MB (RAM) 0.1 CPU														
Starter \$7 / month	512 MB (RAM) 0.5 CPU														
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Pro Max \$225 / month	16 GB (RAM) 4 CPU														
Pro Ultra \$450 / month	32 GB (RAM) 8 CPU														

Need a [custom instance type](#)? We support up to 512 GB RAM and 64 CPUs.

- s. Next in **Environment Variables**, choose the option of Add from .env and paste all the env commands present in the server folder.

The screenshot shows a configuration interface for environment variables. On the left, there is a field labeled "REACT_APP_BASE_URL". To its right is a text input box containing the URL "https://zomato-clone-1-taes.onrender.com". A small trash can icon is located at the top right of the input box.

- t. Rest leave it as it is and click on **Create Web Service** button.

A large blue button with the text "Create Web Service" centered on it.

- u. The installation and running of the server starts.



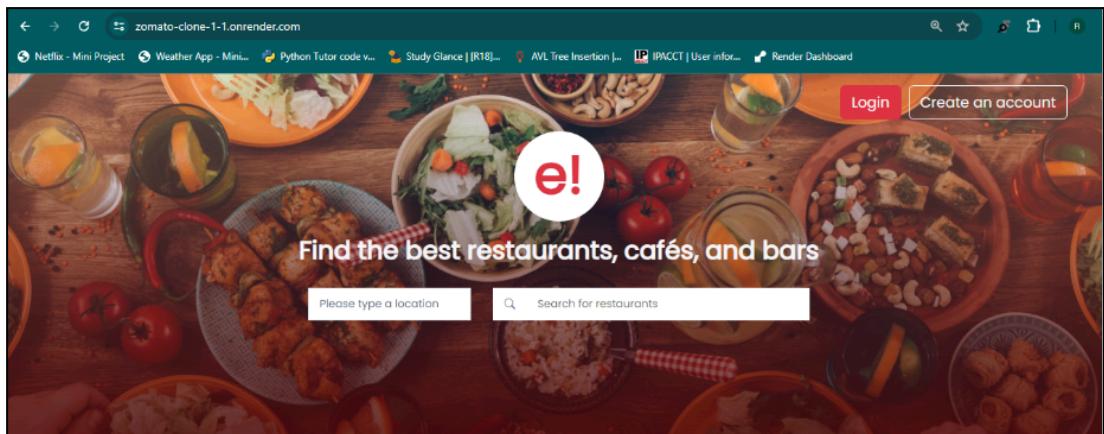
And wait till it is live.



- v. Find the link (URL) on which your web page is live.



- w. Use this link in the URL address bar in the browser.



Note: Please let us know if any errors or any steps missing to update the document related to it