

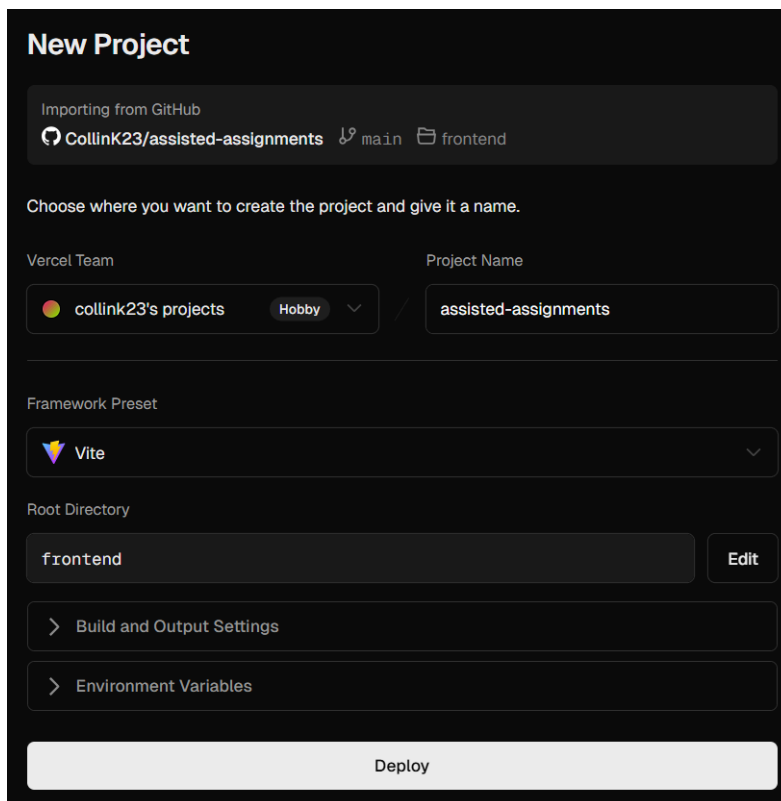
Deployment.md

Deployment

This setup works for the current project, but more scalable deployment methods may be necessary if user demand grows.

1. Frontend Deployment

The current Frontend is deployed on Vercel. To deploy the Frontend on Vercel, create an account and link a GitHub Account. Start a new project, and select this GitHub Repository. Under Framework Preset select Vite, in Root Directory select frontend. In the Environment Variables Section, copy the variables from the frontend .env file.

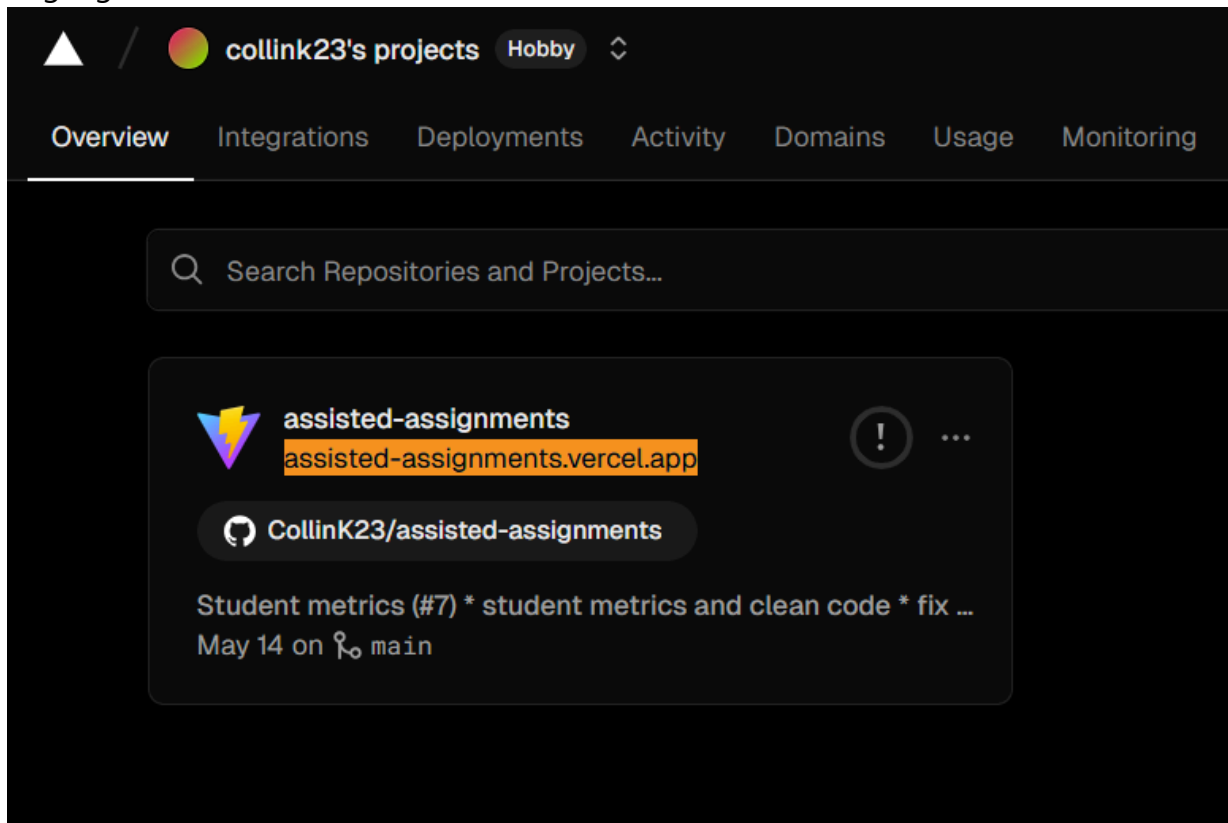


The screenshot shows the 'New Project' form in Vercel. At the top, it says 'Importing from GitHub' and shows the repository 'CollinK23/assisted-assignments' with branches 'main' and 'frontend'. Below this, it asks to 'Choose where you want to create the project and give it a name.' The 'Vercel Team' is set to 'collink23's projects' and the 'Project Name' is 'assisted-assignments'. The 'Framework Preset' is 'Vite'. The 'Root Directory' is 'frontend'. There are expandable sections for 'Build and Output Settings' and 'Environment Variables'. A 'Deploy' button is at the bottom.

Notes:

- You may want to set up a different Auth0 environment for production and development.
- `VITE_API_BASE_URL` will be updated after setting up Backend Deployment.

- Vercel will automatically redeploy the frontend when changes are pushed to the main branch.
- You can now access the website using the URL shown in your Vercel Dashboard (highlighted in the screenshot below).



2. Redis & Database Deployment

Currently, the project uses a Neon PostgreSQL database in production.

Database Deployment: In the Vercel project Dashboard, navigate to Storage > Create Database > Neon > Continue > Choose a Region > Select Installation plan > Continue > Create

Redis Cache Deployment: In the Vercel project Dashboard, navigate to Storage > Create Database > Redis > Continue > Choose a Region > Select a plan > Continue > Create

Notes:

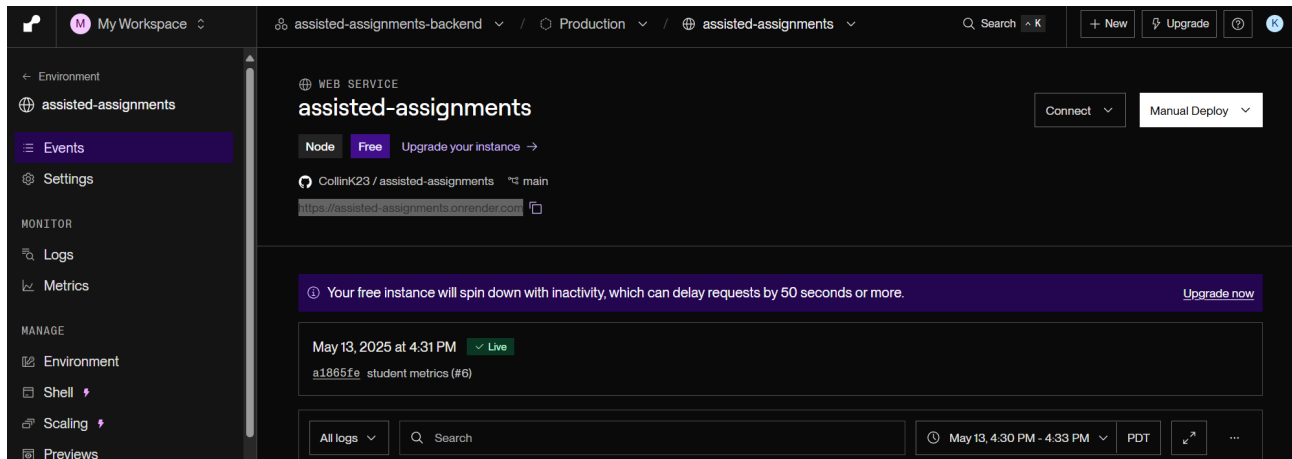
- The values for `REDIS_URL` and `DATABASE_URL` will be needed for the backend deployment.

3. Backend Deployment

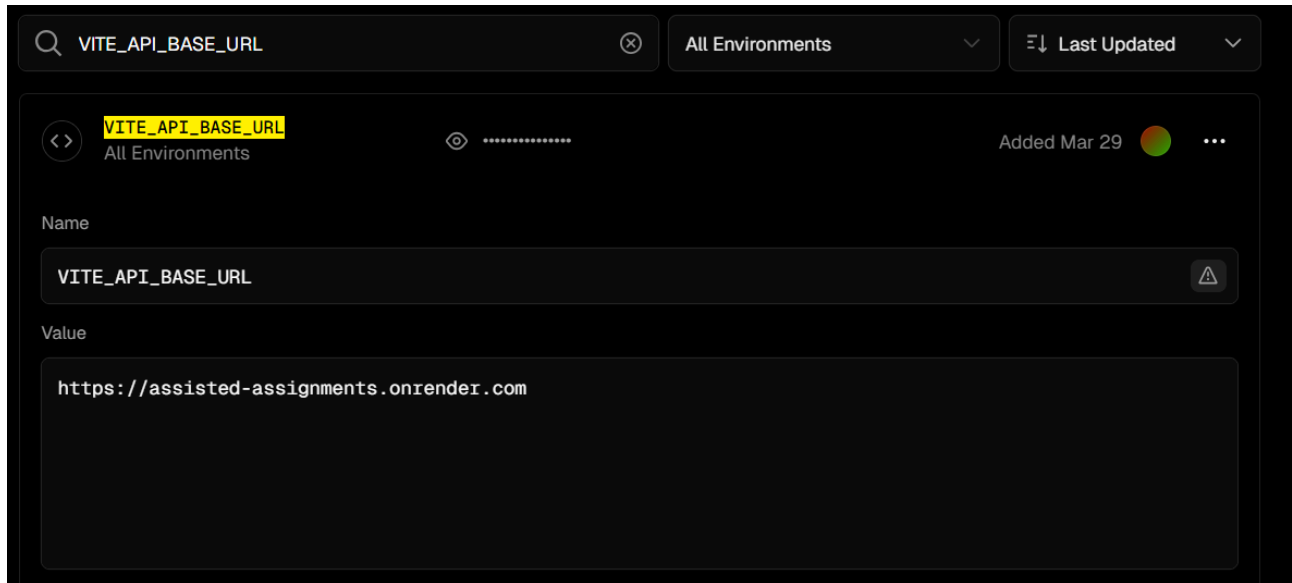
The current Backend is deployed on Render. To deploy the Backend on Vercel, add a new Web Service, connect GitHub as a Git provider, and select this GitHub Repository. In the new web service: create a name, for language select `Node`, for branch enter `main`, select a region, for the root directory enter `backend`, for the build command enter `npm install`, and for the run command enter `npm start`. Select an instance type. In environment variables, copy the variables from the backend `.env` file and update the following values:

```
NODE_ENV=production
REDIS_URL= *The value for the one created in Vercel*
DATABASE_URL = "The value for the one created in Vercel"
```

Deploy the service. Once deployment is complete, you'll receive an `onrender.com` link to access it.



To connect the Frontend with the backend, in the Vercel dashboard: Navigate to Settings > Environment Variables > Find VITE_API_BASE_URL > Edit > Update the value to the onrender.com link that was created in Render.



Notes:

- In Render's free plan, the backend spins down after 15 minutes of inactivity, which can cause a delay when it's accessed again as the server needs to restart.

4. Setup Backend Uptime Monitoring (Optional)

Using a service such as UptimeRobot, we can get around the issue with Render's backend spin-down by sending periodic requests to keep the server awake.

To do this add a HTTP/Website monitor to your backend onrender.com link and add /hello at the end (e.g., https://assisted-assignments.onrender.com/hello). For monitor Interval select any time <= 10 minutes to keep the server active.

UptimeRobot

Monitoring

Incidents

Status pages

Maintenance

Team members

Integrations & API

CK Collin Kimball

Add single monitor

Monitor type

HTTP / website monitoring

URL to monitor

https://https://assisted-assignments.onrender.com/hello

How will we notify you?

☒ E-mail

kimbacol@oregonstate.edu

No delay, no repeat

☐ SMS message

Add phone number

No delay, no repeat

☐ Voice call

Add phone number

No delay, no repeat

☐ Mobile push

Download app for iOS or Android

No delay, no repeat

You can set up notifications for Integrations & Team in the specific tab and edit it later.

Monitor interval

Your monitor will be checked every 5 minutes. We recommend to use at least 1-minute checks available in paid plans

30s1m5m30m1h12h24h

Monitor details

Integrations & Team

Maintenance Info