



Git Hub Repository

push your code to the GitHub repository.



Docker Compose

runs multiple containers at once by building the component images using their Docker files and pulling them from a registry.



Coolify: Deployment Tool

pulls the latest code from GitHub and uses Docker Compose to build and deploy the containers on the AWS EC2 instance.



AWS EC2 Instance

pulls the latest code from GitHub and uses Docker Compose to build and deploy the containers on the AWS EC2 instance.



Backend

Django
Port: 8001



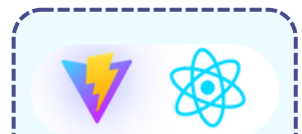
DB Web Interface

phpMyAdmin
PMA_Host: mysql_db



Database

MySQL
Port: 3306



Frontend

React + Vite
Port: 80



Caddy: Proxy Server

serving static files and handling caching effectively in the frontend

Workflow

- Code Push: we push our code to the GitHub repository.
- Coolify Deployment: Coolify pulls the latest code from GitHub and uses Docker Compose to build and deploy the containers on the AWS EC2 instance.
- Docker Containers:
 - a. Backend: Runs the Django application with gunicorn, exposing port 8001.
 - b. Frontend: Runs the React application built with Vite, exposing port 80.
 - c. MySQL Database: Stores your application's data, exposing port 3306.
 - d. phpMyAdmin: Provides a web interface to manage the MySQL database.
- Caddy Configuration: serving static static files and handling caching effectively in the frontend