Deploying "Ask for a Date" App on Docker Container

This project demonstrates a seamless deployment process of the "Ask for a Date" app from development to production using:

- **GitHub** for version control
- **AWS EC2** for infrastructure
- **Docker** for containerization
- **Nginx** for serving the app

Objective

Deploy a fully functional "Ask for a Date" app on a Docker container, accessible via the container, ensuring efficient and scalable deployment.

Components

- **GitHub Repository**: stores the app's codebase
- **AWS EC2 Instance**: hosts the Docker container
- **Docker Container**: runs the app
- **Nginx**: serves the app

Deployment Steps

1. **Create a GitHub Repository**: store the app's codebase
2. **Set up an AWS EC2 Instance**: host the Docker container
3. **Create a Dockerfile**: define the app's environment and dependencies
4. **Build a Docker Image**: create a Docker image from the Dockerfile
5. **Run a Docker Container**: run the app on the Docker container
6. **Configure Nginx**: serve the app

dockerfile Verify Open In Editor

```
# Use an official Nginx image as a base
FROM nginx:alpine

# Copy the app's codebase into the container
COPY . /app

# Expose the app's port
EXPOSE 80

# Run Nginx when the container starts
CMD ["nginx", "-g", "daemon off;"]
```

Example Nginx Configuration

```
http {
    server {
        listen 80;
        server_name example.com;

        location / {
            root /app;
            index index.html;
        }
    }
}
```

This project demonstrates a streamlined deployment process using Docker, AWS EC2, and Nginx, ensuring a scalable and efficient deployment of the "Ask for a Date" app.