Ruby on Rails Docker CMD Startup Script

Overview

Docker CMD startup script to create or migrate database then start the server

## Snippet

#!/bin/sh

# wait for db

# ...

if bundle exec rails db:exists ; then

echo 'Running database migrations...'

bundle exec rails db:migrate

else

echo 'Creating and seeding application database...'

bundle exec rails db:create

bundle exec rails db:migrate

bundle exec rails db:seed

fi

# other startup commands

# ...

bundle exec rails server -b 0.0.0.0

## Text

Docker ```CMD``` startup script for a containerized Ruby on Rails project to create or migrate the project database then start the application server.

### Dependencies

The script requires the custom rake task ```db:exists```. Make sure the task is added to the project repository and copied into the container image in the Dockerfile.

Details of the rake task can be found here: [Check if Ruby On Rails Database Exists Using Rake](https://www.cpcwood.com/code-snippets/13-check-if-ruby-on-rails-database-exists-using-rake)

### Usage

#### Add Script to Repository

Add script to the project repository under a suitable directory and filename, for example: ```./.docker/scripts/app-startup.sh```

Ensure the script file is executable: ```sudo chmod +x ./.docker/scripts/app-startup.sh```

#### Wait for Database to be Ready

Add a command at the top of the script which waits for the database to be ready. This is database specific, for example, for MySQL:

```sh

# wait for db

until mysqladmin ping -h "$DB\_HOST" --silent ; do

sleep 1

done

```

For PostgreSQL:

```sh

# wait for db

until pg\_isready -U "$DB\_USERNAME" -h "$DB\_HOST" ; do

sleep 1

done

```

Make sure the relevant environment variables such as ```DB\_HOST``` are available in the container.

#### Add Additional Startup Commands

Add any additional required startup commands to the script, for example generating a sitemap using the sitemap\_generator gem: ```bundle exec rails sitemap:refresh:no\_ping```

#### Add and Run in Dockerfile

Make sure the script file is copied into the container image in the Dockerfile.

Run the script as the default command in the Dockerfile using the ```CMD``` instruction, for example:

```docker

CMD ["./.docker/scripts/app-startup.sh"]