

Developing the Ruby on Rails Application

Building the Demo Application

(Only run this if you skipped around) Initialize the project

Download all of the Docker images and start the server

```
docker-compose up
```

Then in a new terminal...

OSX/Windows users will want to remove --user "\$(id -u):\$(id -g)"

```
docker exec --user "$(id -u):$(id -g)" dockerzon_dockerzon_1 rake db:reset
```

Shut down docker-compose by hitting CTRL+C first and then run

```
docker-compose stop
```

(Everyone can follow along from here) Start up everything with Docker Compose

```
docker-compose up
```

Migrate the database

Then in a new terminal...

OSX/Windows users will want to remove --user "\$(id -u):\$(id -g)"

```
docker exec --user "$(id -u):$(id -g)" dockerzon_dockerzon_1 rake db:migrate
```

Visit the application in your browser

Replace `localhost` with your Docker VM's IP address if you're running OSX or Windows.

<http://localhost:8000>

- You should see the website and a glorious Dockerzon

(New terminal) Log in to the redis-cli

```
docker exec -it dockerzon_redis_1 redis-cli
```

Get a list of all keys

```
KEYS *
```

Get the value of the hit counter

```
GET dockerzon::cache:total_hits
```

Exit the container

```
CTRL+D
```

Load up the Rails console

```
docker exec -it dockerzon_dockerzon_1 rails c
```

```
# List all of the records
```

```
Javelin.all
```

```
# Sum all of the thrown javelins
```

```
Javelin.sum(:thrown)
```

```
# Count all of the records
```

```
Javelin.count
```

```
# List all of the thrown javelins
```

```
Javelin.all.pluck(:thrown)
```

```
# Exit the container
```

```
CTRL+D
```

(Info) Steps performed to create the demo application

```
# Generate a pages controller
```

```
# OSX/Windows users will want to remove --user "${id -u}:${id -g}"
```

```
docker exec --user "${id -u}:${id -g}" \
```

```
dockerzon_dockerzon_1 rails g controller Pages home health_check
```

```
# Add the hit counter and hostname to app/controllers/pages.rb and  
app/views/pages/home.erb
```

```
# Add the dockerzon image to app/assets/images/dockerzon.jpg and style up the  
home page in app/assets/stylesheets/application.scss
```

```
# Set the default route in config/routes.rb
```

```
# Generate a Javelin model
```

```
docker exec --user "${id -u}:${id -g}" \
```

```
dockerzon_dockerzon_1 rails g model Javelin thrown:integer
```

```
# Migrate the database
```

```
docker exec --user "${id -u}:${id -g}" \
```

```
dockerzon_dockerzon_1 rake db:migrate
```

```
# Generate a Throw Javelins job
```

```
docker exec --user "${id -u}:${id -g}" \
```

```
dockerzon_dockerzon_1 rails g job throw_javelins
```

```
# Edit jobs/throw_javelins_job.rb
```

```
# Restart docker-compose to pickup the new job
```