

Praxis Group #1





Hello!

I am Juan Jose Lopera

I am here because I love to learn.

You can find me at











Homework #1

Unit Testing

- Really scared when I stopped understanding the lecture.
- Hard learning week (API, Springboot, Testing, Mockup, Integration, JUnit, Jo
- I sat down and tried to do it.
- It was not that difficult :)
- I can do it
- I didn't understand why the test were important.



Homework #2 Refactoring

- > I understood the lecture
- > not too much to say
- > ez
- > tried creational patterns
- > not ez
- > i understood the important of test



Homework #3 Vagrant

- Dark day came to my life
- Couple of tries
- Maven refused to get installed
- My teammate made the code to work
- It doesn't work on my computer
- ♦ I understand the real power of linux





Homework #4 UI Testing

BIG PROBLEMS

Import pain from hell

- Loved the lecture, and the concept of automate things
- trouble agreeing and synchronizing with my partner
- Ez to follow the guide
- Not ez to code with only one hand
- Too much code for a half man, need more time pls
- End up with two fully working repos





Homework #5 lov u docker

I didn't understand a single thing

READ DOCUMENTATION

THE HOMEWORK

Have a lot of problems with the cache

I have to delete the images first upss

Amazed with the concept of container

Started imagining the possibilities

Lot of problems with ENV



Thanks Juan Bolaños



Homework #6 API Testing

+ More coding :c , send help pls

+ Github Copilot comes to rescue <3

+ Time to be creative with those test

+ Intrigued by the security risks



Homework #7 cl/cd

- > AWS... this is going to be fun
- > jenkins? No entiendos
- > Documentation, here I come
- > At least the environment variable problems are now worth it
- > REMINDDER: Thank god for the existence of docker-compose



Homework #8

- Terraform was fun
- It really hurts doing the destroy
- Ez delivery
- Env variables really useful again





Dockerfile

```
FROM maven:3.8.5-openjdk-17-slim
WORKDIR /usr/src/app
COPY . .

ARG DB_H
ARG DB_U
ARG DB_P

ENV DATABASE_HOST = $DB_H
ENV DATABASE_USER = $DB_U
ENV DATABASE_PASSWORD = $DB_P

CMD mvn spring-boot:run
```

Backend

```
stages{
   stage('Test and Report'){
       agent{
                                                                                                                                      Jenkinsfile
           docker "maven"
       environment{
           sh 'mvn clean compile -DDATABASE_HOST=${DB_HOST} -DDATABASE_USER=${DB_USER} -DDATABASE_PASSWORD=${DB_PASSWORD}'
           sh 'mvn clean test -DDATABASE_HOST=${DB_HOST} -DDATABASE_USER=${DB_USER} -DDATABASE_PASSWORD=${DB_PASSWORD}'
           sh 'mvn surefire-report:report -DDATABASE_HOST=${DB_HOST} -DDATABASE_USER=${DB_USER} -DDATABASE_PASSWORD=${DB_PASSWORD}'
           sh 'cp -R target/site/surefire-report.html report/'
           publishHTML (
   stage('Build Backend image'){
       agent any
       steps{
           sh 'docker build --build-arg DB_H=${DB_HOST} --build-arg DB_U=${DB_USER} --build-arg DB_P=${DB_PASSWORD} -t jloperad/praxis-gildedrose_backend:latest .'
   stage('Docker Push Image') {
       agent any
       steps {
           withCredentials([usernamePassword(credentialsId: 'dockerHub', passwordVariable: 'dockerHubPassword', usernameVariable: 'dockerHubUser')]) {
           sh "docker login -u ${env.dockerHubUser} -p ${env.dockerHubPassword}'
           sh 'docker push jloperad/praxis-gildedrose_backend:latest'
           sh 'docker logout'
```

Dockerfile

```
FROM nowh:16.10
WORKDIR /app
COPY . .
RUN npm install
CMD npm start
```

```
pipeline{
                                                                                                   Jenkinsfile
   agent any
   stages{
      stage('Build frontend image'){
         agent any
         steps{
             sh 'docker build -t jloperad/praxis-gildedrose_frontend .'
      stage('Docker Push image') {
         agent any
         steps {
             withCredentials([usernamePassword(credentialsId: 'dockerHubUser')]) {
             sh "docker login -u ${env.dockerHubUser} -p ${env.dockerHubPassword}"
             sh 'docker push jloperad/praxis-gildedrose frontend:latest'
             sh 'docker logout'
```

FrontEnd



Docker-compose

```
image: jloperad/praxis-gildedrose backend:latest
  - 8081:8080
  - DATABASE HOST=group1-rds.cqqmj66dxtlw.us-east-1.rds.amazonaws.com
 - DATABASE USER=postgres
  - DATABASE_PASSWORD=postgres
image: jloperad/praxis-gildedrose_frontend:latest
 - "4200:4200"
  - BACKEND HOST=backend
depends on:
```

CD Pipeline

```
pipeline {
                                                Jenkinsfile
    stage('Delete Running Containers and images'){
      steps{
        sh 'docker rm -f $(docker ps -aq) || true'
        sh 'docker rmi -f $(docker images -a -q) || true'
   stage('Pull latest images'){
      steps{
        sh 'docker pull jloperad/praxis-gildedrose backend'
       sh 'docker pull jloperad/praxis-gildedrose frontend'
    stage("Run images") {
       steps {
          sh 'docker-compose up -d'
```

Jenkinsfile

```
pipeline {
  agent any
  options {
    ansiColor('xterm')
  stages{
    stage("Install dependencies") {
       steps {
            dir("UI-Tests"){
                sh '''npm ci
                npm install mocha mochawesome cypress-mochawesome-reporter --save-dev
                npm install cypress-multi-reporters --save-dev
                npm install mochawesome-merge --save-dev
                npm install mochawesome-report-generator --save-dev
```

```
stage("Test the UI") {
     steps {
          dir("UI-Tests"){
              sh 'TERM=dumb'
              sh 'npm test'
post{
    always{
      publishHTML (
                  target : [
                      allowMissing: false,
                      alwaysLinkToLastBuild: true,
                      reportDir: 'UI-Tests/cypress/reports',
                      reportFiles: 'report.html',
                      reportName: 'UI-Tests Report'
```

UI Testing

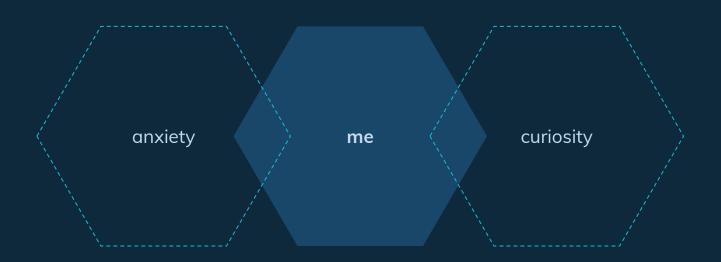
```
pipeline {
                                                                     Jenkinsfile
  agent any
  options {
    ansiColor('xterm')
  stages{
    stage("Install dependencies") {
       steps {
            dir("API-tests"){
                sh 'npm ci'
                sh 'npm install mocha mochawesome cypress-mochawesome-reporter --save-dev'
    stage("Test the UI") {
       steps {
            dir("API-tests"){
```



API Testing



Resume







Conclusions

- ♦ I learned a lot
- Understand a little more of the big picture
- From big mistakes, comes great knowledge
- It's important to understand the why its failing, no only the solution

