INTRODUCTION TO SPRING BOOT FRAMEWORK

David Corral Plaza

- Introduction to Spring
- Spring Boot
- Preparing workspace
- Creating an REST API
- Persistence in REST API
- Deploying on Heroku
- Bibliography

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WHAT IS SPRING FRAMEWORK?



 Spring Framework is a Java platform that provides comprehensive infrastructure support for developing Java applications.

• Spring handles the infrastructure so you can focus on your application.

It is based on JAVA.

MAIN ADVANTAGES

• Spring Framework is lightweight with respect to size and transparency.

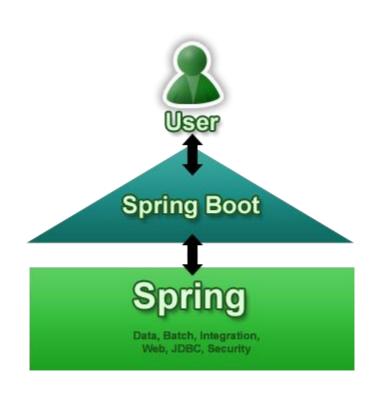
Easy to test, thanks to existing libraries.

• 'Pre-created' projects that make us easier to build applications like REST API, i.e., Spring Boot.

 Allows to perform Dependency Injection easily thanks to the concept of Inversion of Control (IoC)

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WHAT IS SPRING BOOT?



 Spring Boot aims to make it easy to create Spring apps.

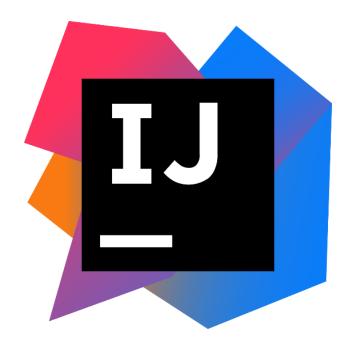
 You can use it to create standalone Java applications that can be started using 'java -jar'.

MAIN ADVANTAGES

- Create stand-alone Spring applications.
- Embed Tomcat, Jetty or Undertow directly (no need to deploy WAR files).
- Provide opinionated 'starter' POMs to simplify your Maven configuration.
- Automatically configure Spring whenever possible.
- Provide production-ready features such as metrics, health checks and externalized configuration.
- Absolutely no code generation and no requirement for XML configuration.

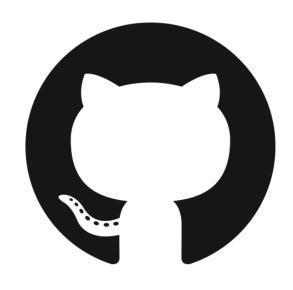
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1- INTELLIJ IDEA



Ultimate edition, in order to save us from download all the stuff.

2- GITHUB ACCOUNT



To store our application.

3- HEROKU ACCOUNT



To deploy our application on the cloud.

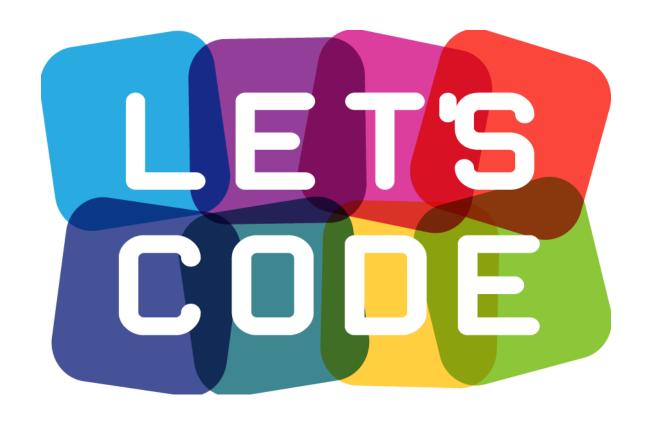
4- MLAB ACCOUNT



To create our Mongo database.

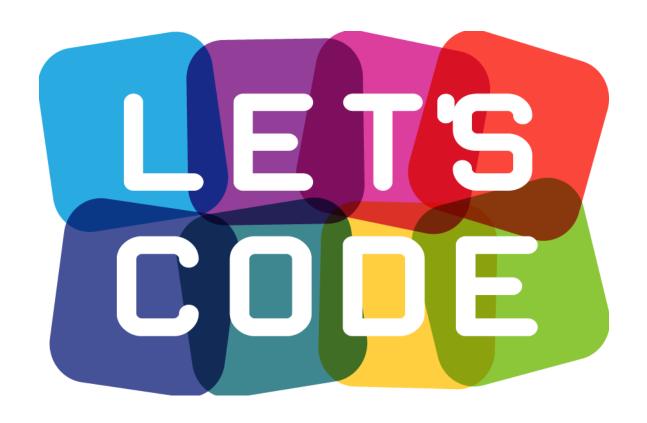
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LET'S CODE: Package com.example.demo



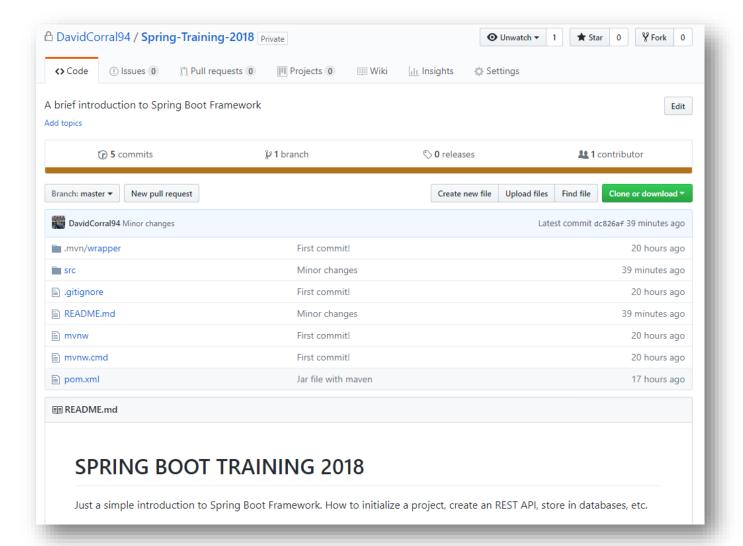
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LET'S CODE: Package com.example.persistence

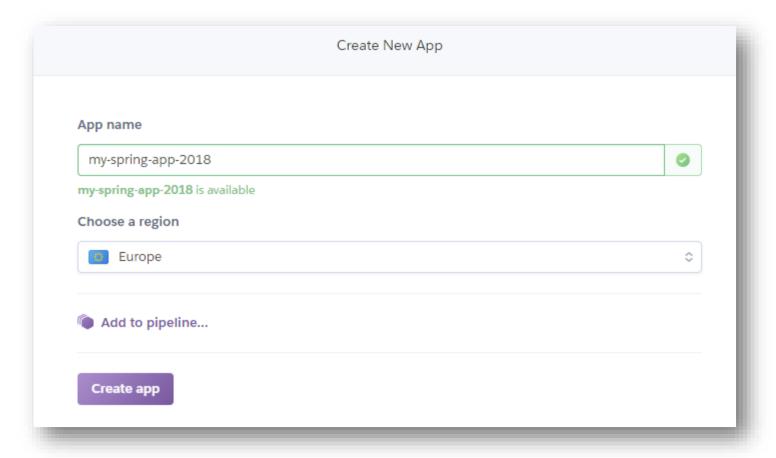


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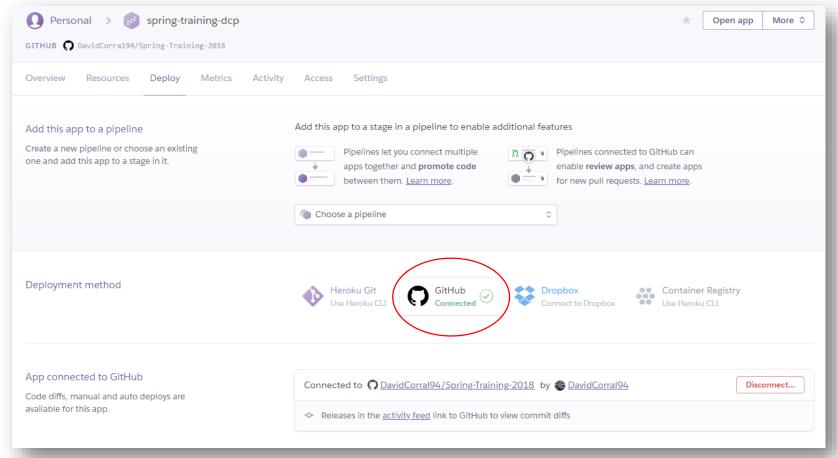
1.- Create a GitHub repository and upload your code.



2.- Create a Heroku application



3.- Click on 'Deploy' tab and connect your app with your GitHub account.

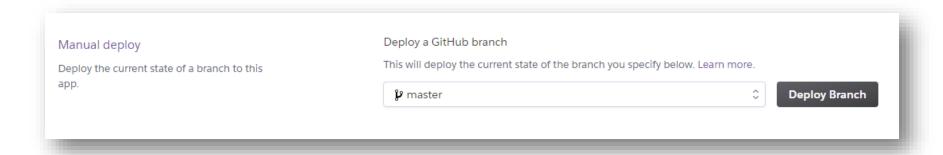


4.- Configure MONGODB URI environment variable. Click on 'Settings' and put you MLAB URI on 'Config Vars'.



STEP 5 & 6

5.- Click on 'Deploy Brach' with master selected



6.- Check on the browser:

https://<app-name>.herokuapp.com/users

```
← → C Secure | https://spring-training-dcp.herokuapp.com/users

[{"id":2,"name":"David Corral","age":24,"location":"Cadiz"},
{"id":0,"name":"David Corral Plaza","age":24,"location":"Puerto Real"},
{"id":1,"name":"David Corral","age":24,"location":"Cadiz"}]
```

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FOR YOUR INTEREST

http://www.baeldung.com/spring-requestmapping

 http://www.baeldung.com/spring-data-mongodbtutorial

 https://devcenter.heroku.com/articles/deployingspring-boot-apps-to-heroku

• https://docs.spring.io/spring/docs/3.0.x/spring-framework-reference/html/overview.html

THANK YOU VERY MUCH!

David Corra Plaza