

Deployment Guideline

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There are multiple ways to deploy. The following describes the main two ways: deploying on your own server and deploying on the cloud.

Deploying on own server

Deploying on your own server requires checking the running environment:
The following are the recommended operating environments:

- Back-end: JDK 1.8+, Maven 3.6.3+
- Front-end: node v14.17.6+, react 16.9.34+
- Database: MongoDB 5.0.8

Install Softwares

Install Java

[Official tutorial for JDK installation](#)

Install Maven

[Official tutorial for Maven installation](#)

take mac os for example

- download apache-maven-3.6.3-bin.tar.gz
- tar xzvf apache-maven-3.6.3-bin.tar.gz
- Alternatively, use your preferred archive extraction tool.
- Add the bin directory of the created directory apache-maven-3.6.3 to the PATH environment variable
- Confirm with mvn -v in a new shell.

Install node

[Official tutorial for nodejs installation](#)

Install MongoDB

[Official tutorial for mongoDB installation](#)

Run this project

Configuration files

backend: src/coaching-mate/src/main/resources/application-dev.properties

create your MongoDB database with {database name}, and set the database name and password to

```
spring.data.mongodb.uri = mongodb+srv://{database name}:{password}@cluster1.mjm2t.mongodb.net/coachingmate?retryWrites=true&w=majority
```

front-end: src/utlis/request.js - change the api url.

Backend deployment

1. run mvn install. All files will be packaged into jar files.
2. Execute on the command line: java -jar ***.jar

Frontend deployment

1. run npm build. All files will be packaged into dist dir
2. copy the dist dir to the root of the website server(for example: nginx)

Deploying on Heroku

There are several steps we need to do to run our app on heroku

1. create a new application on heroku

Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

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Filter apps and pipelines

Step 1

New

Step 2

Create new app

Create new pipeline

2. text our app name and region

Create New App

App name

coaching-mate-ga-boxjelly

coaching-mate-ga-boxjelly is available

Choose a region

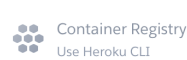
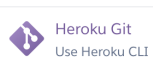
United States

Add to pipeline...

Create app

3. Select Heroku git and install heroku cli

Deployment method



Deploy using Heroku Git

Use git in the command line or a GUI tool to deploy this app.

Install the Heroku CLI

Download and install the [Heroku CLI](#).

If you haven't already, log in to your Heroku account and follow the prompts to create a new SSH public key.

```
$ heroku login
```

Clone the repository

Use Git to clone ga-boxjelly's source code to your local machine.

```
$ heroku git:clone -a ga-boxjelly
$ cd ga-boxjelly
```



Deploy your changes


Make some changes to the code you just cloned and deploy them to Heroku using Git.

```
$ git add .
$ git commit -am "make it better"
$ git push heroku master
```

4. Run above-mentioned command one by one

5. find our app and click the Openapp button

 Personal >  ga-boxjelly


 [Open app](#) [More](#)

Overview Resources Deploy Metrics Activity Access Settings


Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.


Add this app to a stage in a pipeline to enable additional features



Pipelines let you connect multiple apps together and **promote code** between them. [Learn more.](#)



Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests. [Learn more.](#)

 Choose a pipeline

6 find our URL in the build log

Activity Feed > Build Log

ID 5c784884-fad5-480c-8348-53efbb848749

```
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ coachingmate ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 8 source files to /tmp/build_e80e25fc/target/test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ coachingmate ---
[INFO] Tests are skipped.
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ coachingmate ---
[INFO] Building jar: /tmp/build_e80e25fc/target/coachingmate-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.3.3.RELEASE:repackage (repackage) @ coachingmate ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ coachingmate ---
[INFO] Installing /tmp/build_e80e25fc/target/coachingmate-0.0.1-SNAPSHOT.jar to /tmp/codon/tmp/cache/.m2/repository/coachingmate-
analytics/coachingmate/0.0.1-SNAPSHOT/coachingmate-0.0.1-SNAPSHOT.jar
[INFO] Installing /tmp/build_e80e25fc/pom.xml to /tmp/codon/tmp/cache/.m2/repository/coachingmate-analytics/coachingmate/0.0.1-SNAPSHOT/coachingmate-0.0.1-
SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 8.064 s
[INFO] Finished at: 2022-05-23T03:21:01Z
[INFO] -----
-----> Discovering process types
Procfile declares types    -> (none)
Default types for buildpack -> web
-----> Compressing...
Done: 89M
-----> Launching...
Released v17
https://ga-boxjelly.herokuapp.com/ deployed to Heroku
```

*** Loading output