Depolyment Guide

Depolyment Guide:

Welcome to the BoxJelly project. As a user who wants to deploy and use this project, it is important to understand that the project consists of two parts: the front-end web page, which displays data charts, and the back-end, which communicates with the Garmin Connect platform and processes data. The back-end also includes a basic database program used for storing data. To properly deploy this project and make it fully functional, the front-end, back-end, and database must all be completed in sequence according to the steps in this guide.

1. DataBase:

requiredDebian10 instance (Recommended service provider: Vultr, AWS)

1. Import MongoDB's public GPG key:

First, import MongoDB's public GPG key to ensure the integrity and authenticity of the downloaded packages. Run the following command:

```
wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -
```

2. Add the MongoDB repository:

Create a list file containing the MongoDB repository. For MongoDB 4.4, run the following command:

echo "deb [arch=amd64,arm64] https://repo.mongodb.org/apt/debian buster/mongodb-org/4.4 main" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list

Then, update the local package database:

```
sudo apt update
```

3. Install MongoDB using the following command:

```
sudo apt install -y mongodb-org
```

4. Start the MongoDB service:

After the installation is complete, start the MongoDB service and set it to start automatically at system boot:

```
sudo systemctl start mongod
sudo systemctl enable mongod
```

5. Verify the MongoDB installation:

Check the status of the MongoDB service using the following command:

```
sudo systemctl status mongod
```

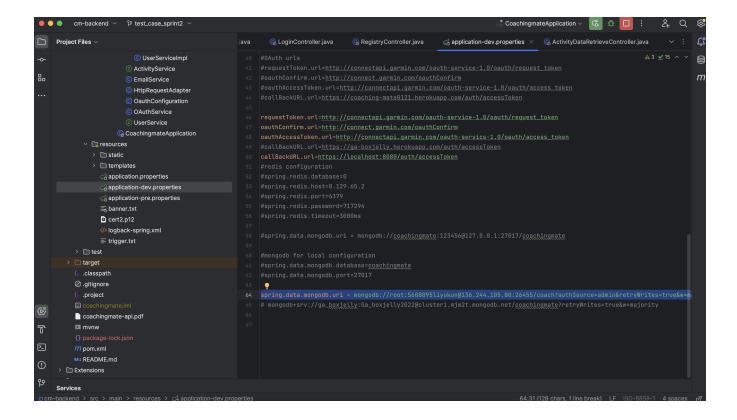
If you see Active: active (running) status, it means MongoDB has been successfully installed and is running.

Now, you have successfully deployed MongoDB on a Vultr Debian 10 instance. To ensure system security, make sure to properly configure MongoDB, manage permissions, and set up the firewall when deploying it in a real-world scenario. For more information, refer to the MongoDB official documentation (https://docs.mongodb.com/manual/administration/security-checklist/).

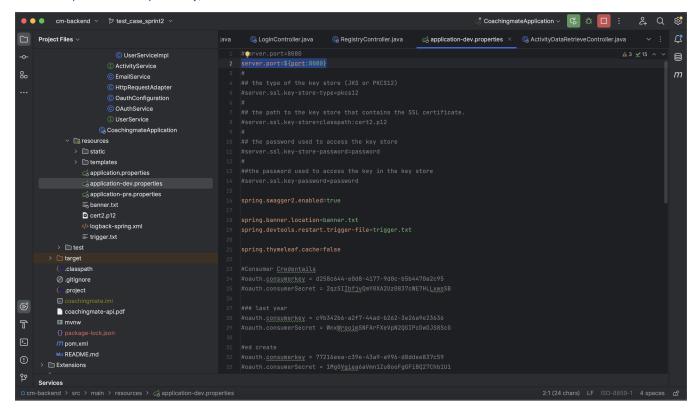
2. BackEnd:

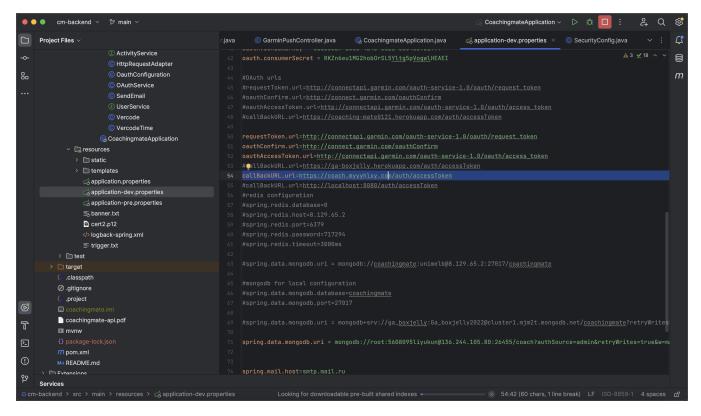
Change the database of your own (ignore this if you want to use the old database from the previous year)

Note: The old database already has a lot of sample data inside, it can be harder to find the new data added



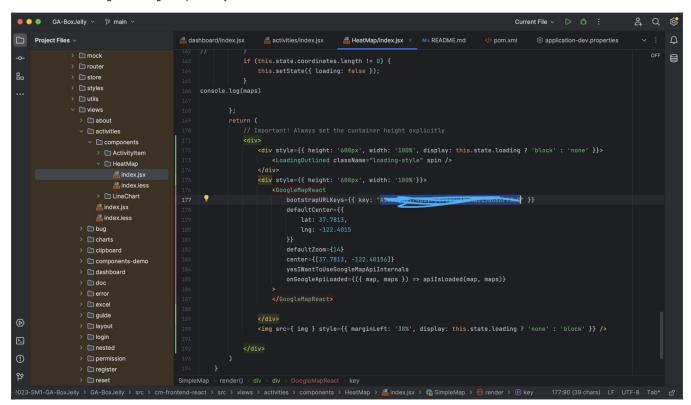
If the default port 8080 is occupied locally, it needs to be modified.





Make sure SMTP service is configured to continue (from line 74).

You should also change the Google Map API key in frontend:



OnSever

1.Update the system:

First, open a terminal on your instance and run the following commands to update all packages:

```
sudo apt update
sudo apt upgrade -y
```

2. To run the jar file, you need Java installed on your instance. It is recommended to use OpenJDK. To install Java 8, run the following command:

```
sudo apt install openjdk-11-jdk -y
```

After the installation is complete, verify that Java was successfully installed:

java -version

3. Download the jar file:

First, make sure 'wget' tools are installed:

```
sudo apt install wget -y
```

Then, use one of the following commands to download the jar file:

4. Run the jar file: Now you can run the downloaded jar file. Use the following command:

```
java -jar coachingmate-0.0.1-SNAPSHOT.jar
```

If you want to run the jar file in the background and keep it running after closing the terminal, you can use the nohup command:

nohup java -jar coachingmate-0.0.1-SNAPSHOT.jar &

3. FrontEnd:

Run locally

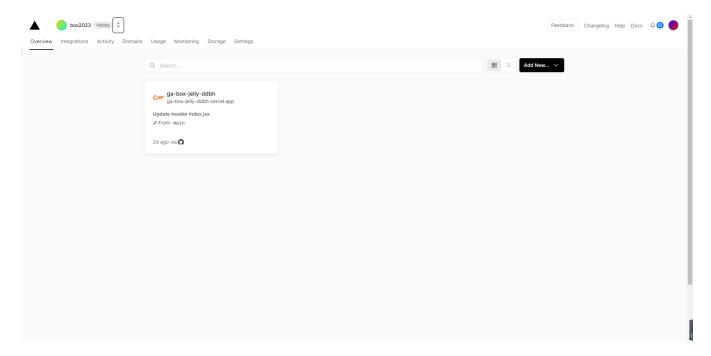
required: pre-installed: Nodejs V16.19.1

- 1. Navigate to src\cm-frontend-react folder
- 2. Run npm install
- 3. Run npm start

Online

Deploy online

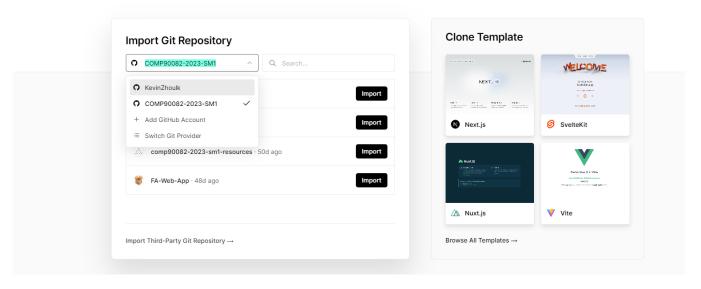
1. Create a new project on Vercel



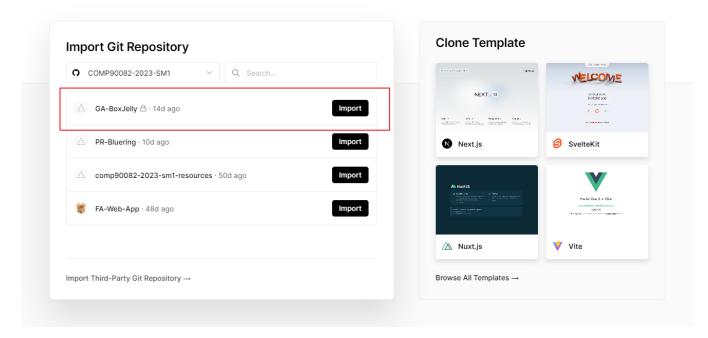
2. Connect it with Github

Let's build something new.

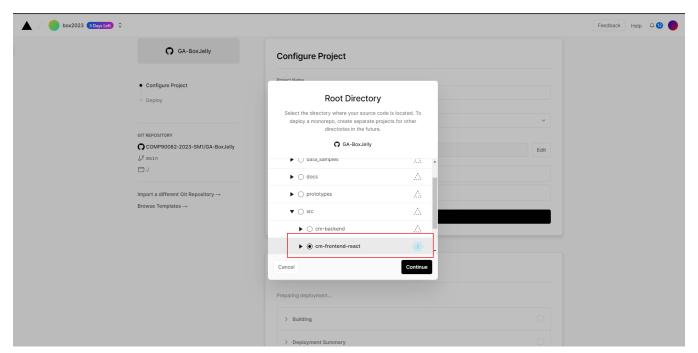
To deploy a new Project, import an existing Git Repository or get started with one of our Templates.



3. Import the required repository



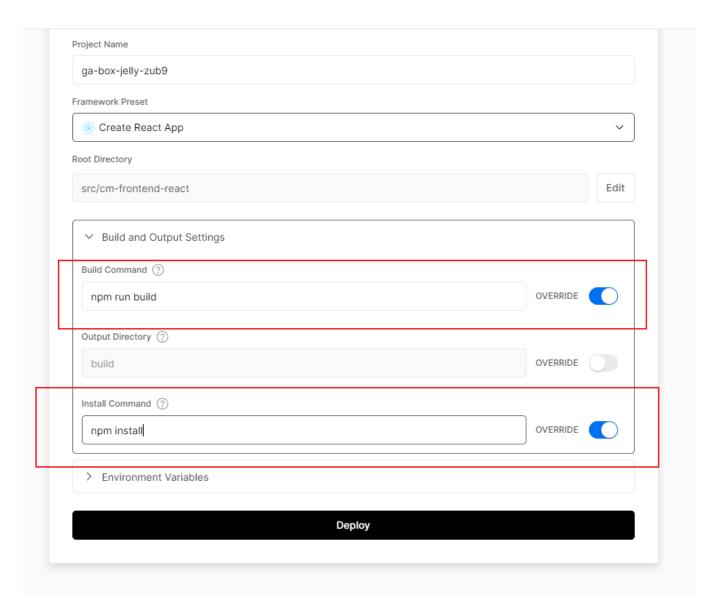
4. Select the source code folder



Note:

Change the build commnad to npm run build

Change the install Command to npm install



5.Click the Deploy button.

3. Remote Backend Deployment (in case you want to deploy the product online):

- 1. Configure src/main/resources/application-dev.properties
 - a. add this line to make your backend access remotely: server.address=0.0.0.0
 - b. change callBackURL.url
 - c. configure oauth.consumerkey and oauth.consumerSecret (and set up endpoint urls in the garmin api tool)
 - d. change your database url
 - e. add your own smtp service
- 2. In src/main/java/coachingmateanalytics/coachingmate/service/SendEmail.java
 - a. Modify url in sendResetEmail
- 3. In src/cm-frontend-react/src/utils/request.js
 - a. Change baseURL in line 13 to your backend url