

# Introduction

- Here are two parts for our whole project :

- Vessel App front-end : Originally it's a purely front-end Application with angularjs , but We have provided a back-end. The back end is supported by SpringBoot , Though we didn't add any logic in the back end. This Application is completely independent from the later mentioned Activiti App. they communicate with each other by cross-domain request.
- Activiti App : it is responsible for monitoring the ship's voyaging State.

- How to configure and run the project :

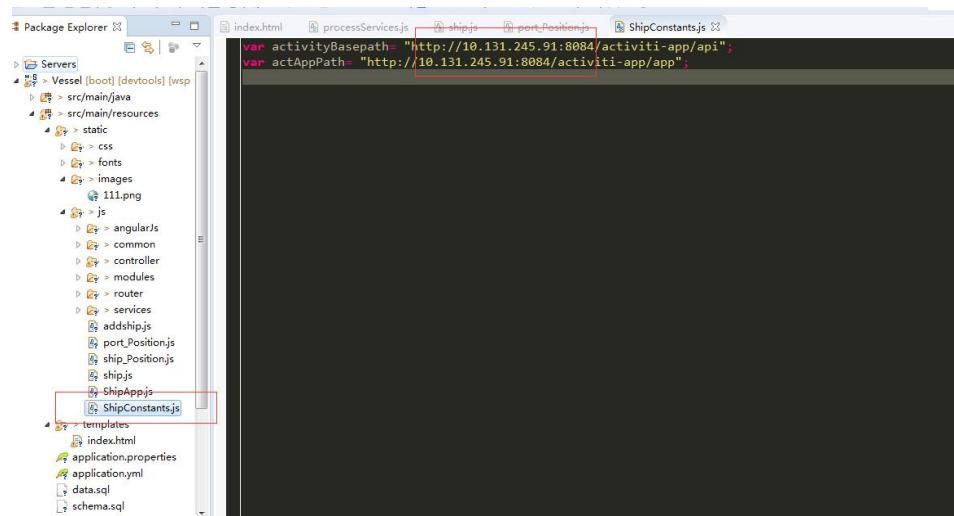
- Development environment :

- STS ( spring-tool-suite-3.9.0.RELEASE ).
- Here we need two computers , A and B , to deploy our project, computer A for the deployment of Vessel Application and the other computer B for deployment of Activiti Application.

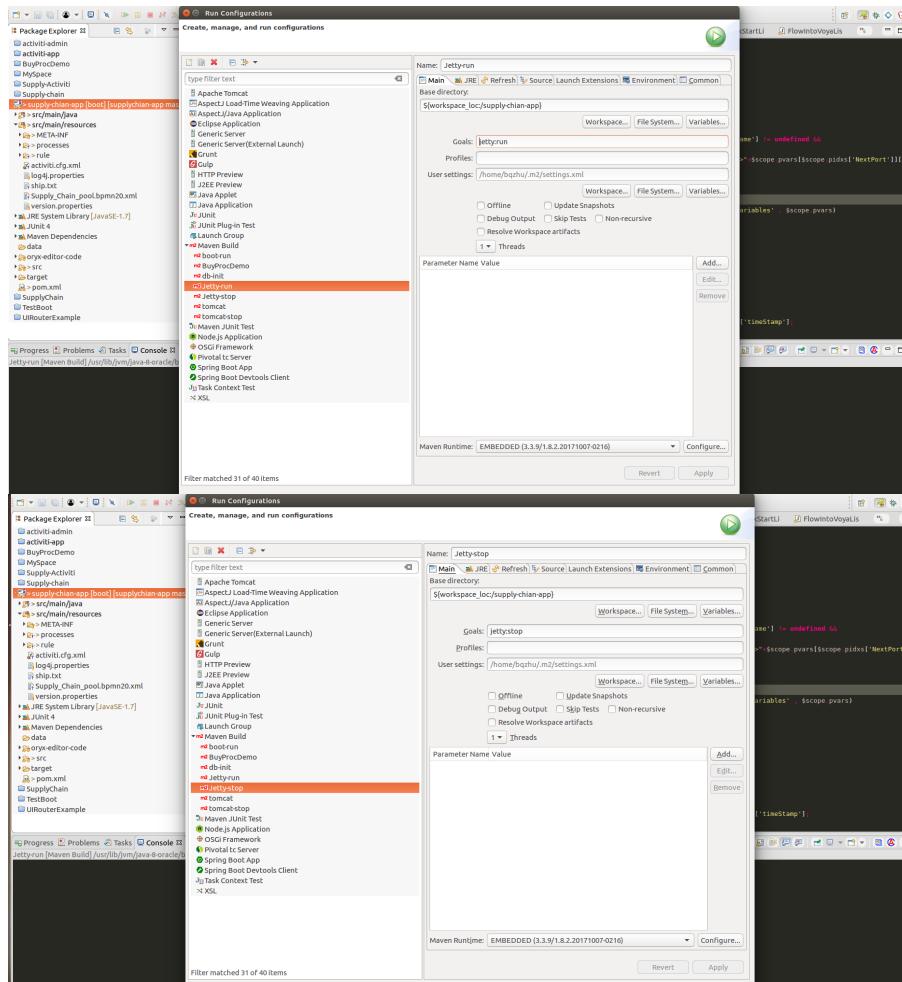
- Vessel App :

- Extract Vessel.zip and import the project into STS :

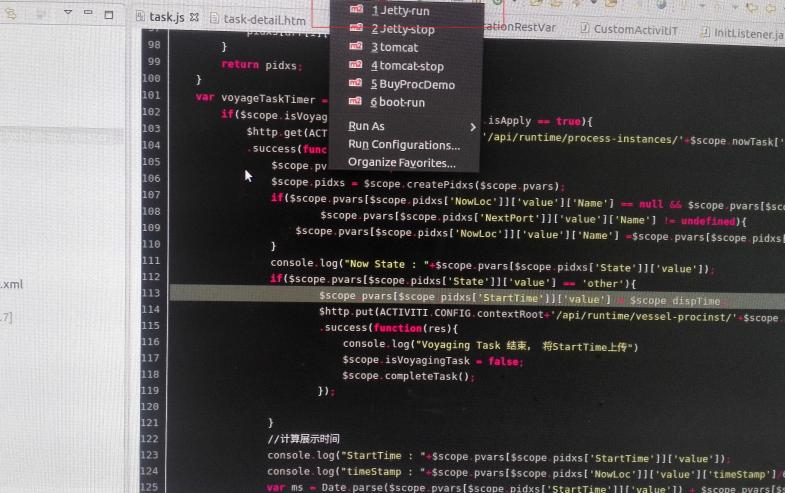
- Right-click the project name Vessel , then enter -> Maven -> Update Project , and then wait to load the dependency, if there is a jar conflict or lack of this process, clear the local maven repository under your home directory, and then repeat the above steps. Wait a while until the dependencies are loaded.
- Before running the project, we need to modify the file "10.131.245.91:8084" in the file ShipConstans.js for the computer B plus the port number 8084, like "ip: 8084".



- Right-click the project name Vessel , then enter -> Run As -> Spring Boot App
  - Enter http://localhost:8080/Vessel/index in the browser.
- Extract the file supply-chain-app.tar.gz and import the project into STS .
  - Right-click the project name supply-chain-app , then enter -> Maven -> Update Project , waiting to load dependencies, after loading is completed , right-click the project name, followed by -> Run As -> Run configurations ... , Click Maven build, add jetty-run , jetty-stop command.



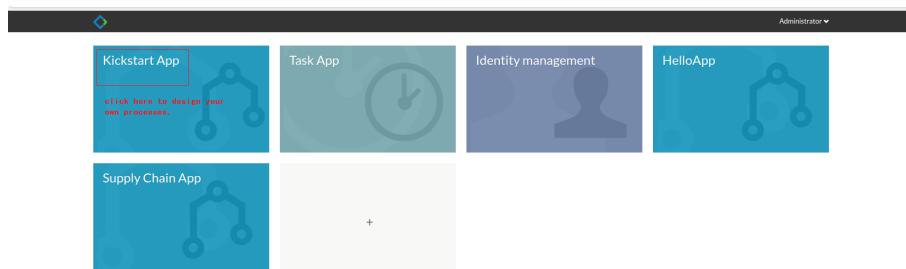
- As shown below, click `jetty-run`, start Activiti App.



The screenshot shows the Eclipse IDE interface with the following details:

- Top Bar:** Refactor, Source, Refactor, Navigate, Search, Project, Run, Window, Help.
- Left Side:** Package Explorer (with files like app-boot.bpmn20.xml, sources, in\_pool.bpmn20.xml, properties, library [JavaSE-1.7], dependencies, code, problems, Tasks, Console, Properties, Type Hierarchy, Navigator, Outline).
- Central Area:** Code editor showing `task.js` and `task-detail.htm`. The `task.js` file contains JavaScript code related to BPMN tasks.
- Context Menu (opened at line 102):**
  - 1 Jetty-run
  - 2 Jetty-stop
  - 3 Tomcat
  - 4 Tomcat-stop
  - 5 BuyProcDemo
  - 6 bootRun
- Bottom Status Bar:** Build[1] /usr/lib/jvm/java-8-oracle/bin/java (Dec 28, 2017, 9:03:26 PM)

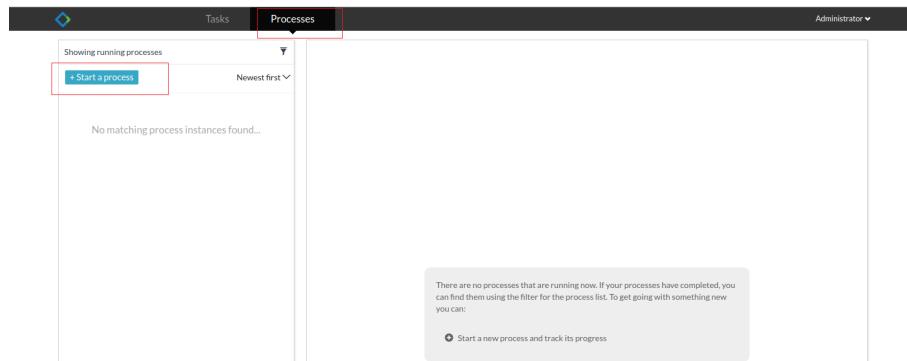
- Enter `localhost: 8084 / activiti-app / index` in the browser, enter the login page, user name: admin, password: test.
  - Go to the following page and click Import Process, upload `Supply_Chain_pool.bpmn20.xml`, then create `supply-chain-app` and add `Supply Chain pool` process into it , go to Processes page and start Vessel process.



This screenshot shows the 'Business Process Models' section. It includes a search bar, a list of processes ('My processes'): 'Supply Chain pool' (last updated today at 8:55 PM) and 'HelloTest' (last updated last Tuesday at 6:00 PM), and a 'Create Process' button. A red box highlights the 'Processes' tab in the navigation bar.

This screenshot shows the 'Apps' section. It includes a search bar, a list of app definitions ('My app definitions'): 'Shared with Me' and 'Shared with others', and two app cards: 'Supply Chain App' (version v11) and 'HelloApp' (version v4). A red box highlights the 'Apps' tab in the navigation bar.

This screenshot shows the detailed view for the 'Supply Chain App' definition. It includes a preview image, a note about no description, and buttons for 'Show all definitions', 'Import App', 'Publish', and 'App Editor'. A red box highlights the 'App Editor' button. Below this, it shows the 'App definition details: Supply Chain App' section with a preview image and a note to edit the app.



Select a process to start from the list below

< Back to process instances

Manager

Coordinator

Supplier

Vessel

Sailor: \*

船号 \*

This is the recommended input of the ship number. If you do not want to use the ship number, you can prepare more ship data.

Start process