

# Feb 28 Symphony Hackathon Guide

## General Information

1. Read the client side documentation if you are interested in client side hacks: <https://dev6.symphony.com/hackathon/SymphonyClientArchitecture.pdf>
2. Read the REST API documentation: <https://dev6.symphony.com/hackathon/SymphonyRestAPI.pdf>

## Download and Getting set-up

1. Have VirtualBox (<https://www.virtualbox.org/wiki/Downloads>) and Vagrant (<http://www.vagrantup.com/downloads.html>) installed on your host machine.
2. Go to <https://dev6.symphony.com/hackathon/index.html>, accept our terms and conditions, enter your name, and click 'I accept' to download the VM.
3. Unzip the VM
4. cd into the vm directory
5. run `vagrant up` to launch the VM
  - a. user: vagrant, pwd: vagrant

## Front end:

1. The project SFE-Client-App should already be in your recent projects area. If it is, open it. If it isn't, go to File -> Reopen Project -> SFE-Client-App and open it from there.
2. Open the terminal from within IntelliJ. If you'd prefer to use a separate terminal window, open one and set the current directory to /home/vagrant/IdeaProjects/SFE-Client-App.
3. Run ./run.sh
4. Open a browser window and navigate to <https://dev6.symphony.com>. Log in to your account (username: **your last name + your first name, all lower case, no special characters, for example for "John Doe" your username is "doejohn"**. Password is **Symphony!123456**)
5. You can now view your locally deployed app by navigating to <https://local001.symphony.com:3000>. Every time you save a JavaScript file, the code will be concatenated and injected into the browser automatically.
  - a. You may need to add a security exception when you try to open the page

The HelloWorld module (located in SFE-Client-App/src/js/modules/HelloWorld) should be your starting point in order to get an idea of how a Symphony front-end module is built. Customize it as you see fit.

## Back end:

### Running the HelloWorld

- a. Launch IntelliJ
- b. If the project **Symphony** is not opened by default, go to **File -> Reopen Project -> Symphony**
- c. Open HelloWorld.java if it is not opened already.
  - i. Run the HelloWorld.java
  - ii. Launch the browser and log into <https://dev6.symphony.com> and post a message in your profile
  - iii. Post a message
  - iv. Switch back to IntelliJ, you should see the message in its JSON form printed out in the console

In a nutshell, the HelloWorld.java:

- a. connects to the Symphony firehose
- b. receives heartbeats from the firehose every 30 seconds
- c. receives messages delimited by newline characters whenever a message is ingested in Symphony

While the HelloWorld is written in Java, the flow above is language agnostic. You can use perl, python, etc to consume messages in Symphony