

ShopFounders v1.0 Software Product Specification (SPS)



Table of Contents

1	Setting up Environment.....	5
1.1	Setting up the pre-requisites	5
2	Getting source code from GIT Repository	6
2.1	Working directory	6
2.2	ShopFounders GIT repository	6
2.3	Pull the source code.....	6
3	Build & Execute ShopFounders in Windows	7
3.1	Build ShopFounders	7
3.2	Execute ShopFounders	7

Revision History

Version	Date	Author(s)	Description
01	01/02/2018	Aayush Kumar	First release

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1 Setting up Environment

1.1 Setting up the pre-requisites

Required OS: Either windows XP, Windows 7, Windows 8 or Windows 10 (32 or 64 bit).

- **JDK :**
 - Windows : at least version 1.8.0_101 (successfully tested on version 1.8.0_101), and JAVA_HOME set to directory where JDK is installed.
- **Maven 3.0.4** (note that maven 3.0.5 also fits but NOT a later version, it will probably not work)
 - `<groupId>org.apache.maven</groupId>`
 - `<artifactId>apache-maven</artifactId>`
 - `<version>3.0.4</version>`
 - Windows :
 - bin directory added in PATH (so that “mvn” command is known)
- **GIT**
 - Windows :
 - 2.14.x or greater (Very important : During installation, ensure you check the option to install command line feature)
- **NPM**
 - 3.10.8 or greater
- **MongoDB**
 - Version: 3.6 (tested version: 3.6)
 - Dump: download the dump from the link below

<https://github.com/hiddenfounders/web-coding-challenge/blob/master/dump-shops.zip>

- Extract the dump and use the command below to restore it.
mongorestore --db shops shops/

2 Getting source code from GIT Repository

2.1 Working directory

Choose a single directory <MySFRoot> where you will checkout all ShopFounders files.

2.2 ShopFounders GIT repository

ShopFounders base GIT repository is <https://github.com/AayushKumarHbk/ShopFounders>.

There are two directories in it:

- AngularBoot: The NPM-based Angular Front-end
- SpringBoot: The Maven-based back-end using Spring Boot.

2.3 Pull the source code

Pull the source code from specified repository to <MyMesaRoot> directory using the GIT command:

```
git clone "https://github.com/AayushKumarHbk/ShopFounders.git"
```

```
D:\Aayush\demo>git clone "https://github.com/AayushKumarHbk/ShopFounders.git"
Cloning into 'ShopFounders'...
remote: Counting objects: 620, done.
remote: Compressing objects: 100% (359/359), done.
remote: Total 620 (delta 272), reused 550 (delta 202), pack-reused 0Receiving objects: 87
Receiving objects: 100% (620/620), 103.25 KiB | 102.00 KiB/s, done.

Resolving deltas: 100% (272/272), done.
D:\Aayush\demo>
```

Snapshot of source code pulled [Windows machine]

3 Build & Execute ShopFounders in Windows

3.1 Build ShopFounders

1. Open command prompt and Change directory to <MySFRoot>/ ShopFounders /AngularBoot. Use command:

```
cd <MyMesaRoot>/ ShopFounders /AngularBoot
```

2. Type in “**npm install**”
3. Wait till the successful completion.

Front-end is done installing. For Back-end:

4. Change directory to <MySFRoot>/ ShopFounders /SpringBoot. Use command

```
cd <MySFRoot>/ ShopFounders / SpringBoot
```

5. Type in “**mvn clean install**”
6. Wait till the successful completion.

Back-end executable is generated in directory:

<MySFRoot>/ShopFounders/SpringBoot/shop-founders-modules/shop-founders-core/target

3.2 Execute ShopFounders

Starting the backend first:

1. Open Cmd and navigate to directory <MySFRoot>/ ShopFounders / AngularBoot.
2. Execute the command **npm start**

Successful completion is the indication that front-end has started. Now, to start MongoDB:

3. Navigate to MongoDB installation directory > bin and execute the command **mongod**. You should a message as shown in the snapshot below:

```
Administrator: C:\Windows\System32\cmd.exe - mongod
2018-02-02T13:21:08.878+0530 I CONTROL [initandlisten] ** Start the server with
--bind_ip <address> to specify which IP
2018-02-02T13:21:08.879+0530 I CONTROL [initandlisten] ** addresses it should se
rve responses from, or with --bind_ip_all to
2018-02-02T13:21:08.914+0530 I CONTROL [initandlisten] ** bind to all interfaces
. If this behavior is desired, start the
2018-02-02T13:21:08.965+0530 I CONTROL [initandlisten] ** server with --bind_ip
127.0.0.1 to disable this warning.
2018-02-02T13:21:09.007+0530 I CONTROL [initandlisten]
2018-02-02T13:21:09.023+0530 I CONTROL [initandlisten] Hotfix KB2731284 or later update i
s not installed, will zero-out data files.
2018-02-02T13:21:09.043+0530 I CONTROL [initandlisten]
2018-02-02T13:21:09.077+0530 I CONTROL [initandlisten] ** WARNING: The file system cache
of this machine is configured to be greater than 40% of the total memory. This can lead to
increased memory pressure and poor performance.
2018-02-02T13:21:09.078+0530 I CONTROL [initandlisten] See http://dochub.mongodb.org/core
/wt-windows-system-file-cache
2018-02-02T13:21:09.079+0530 I CONTROL [initandlisten]
2018-02-02T13:21:21.421+0530 I FTDC [initandlisten] Initializing full-time diagnostic
data capture with directory 'C:/data/db/diagnostic.data'
2018-02-02T13:21:21.619+0530 I NETWORK [initandlisten] waiting for connections on port 27
017
2018-02-02T13:21:25.725+0530 I NETWORK [listener] connection accepted from 127.0.0.1:5475
2 #1 (1 connection now open)
2018-02-02T13:21:25.818+0530 I NETWORK [conn1] received client metadata from 127.0.0.1:54
752 conn: { driver: { name: "mongo-java-driver", version: "3.4.3-dirty" }, os: { type: "Wi
ndows", name: "Windows 7", architecture: "amd64", version: "6.1" }, platform: "Java/Oracle
Corporation/1.8.0_101-b13" }
```

MongoDB up and running

Once MongoDB starts, the back-end should be started by following some final steps as shown below:

4. Navigate to directory :

<MySFRoot>/ShopFounders/SpringBoot/shop-founders-modules/shop-founders-core/target

5. Execute the command **java -jar shop-founders-core-0.0.1-SNAPSHOT-exec.jar**

```
Administrator: C:\Windows\System32\cmd.exe - java -jar shop-founders-core-0.0.1-SNAPSHOT-exec.jar
2018-02-02 01:32:49.145 INFO 13684 --- [main] s.w.s.m.a.RequestMappingHandle
rMapping : Mapped "[[/error]]" onto public org.springframework.http.ResponseEntity<java.ut
il.Map<java.lang.String, java.lang.Object>> org.springframework.boot.autoconfigure.web.Bas
icErrorController.error(javax.servlet.http.HttpServletRequest)
2018-02-02 01:32:49.146 INFO 13684 --- [main] s.w.s.m.a.RequestMappingHandle
rMapping : Mapped "[[/error],produces=[text/html]]" onto public org.springframework.web.se
rvlet.ModelAndView org.springframework.boot.autoconfigure.web.BasicErrorController.errorHt
ml(javax.servlet.http.HttpServletRequest, javax.servlet.http.HttpServletResponse)
2018-02-02 01:32:49.208 INFO 13684 --- [main] o.s.w.s.handler.SimpleUrlHandler
Mapping : Mapped URL path [/webjars/**] onto handler of type [class org.springframework.w
eb.servlet.resource.ResourceHttpRequestHandler]
2018-02-02 01:32:49.209 INFO 13684 --- [main] o.s.w.s.handler.SimpleUrlHandler
Mapping : Mapped URL path [/**] onto handler of type [class org.springframework.web.servl
et.resource.ResourceHttpRequestHandler]
2018-02-02 01:32:49.246 INFO 13684 --- [main] .m.m.a.ExceptionHandlerException
Resolver : Detected @ExceptionHandler methods in SFExceptionHandler
2018-02-02 01:32:49.312 INFO 13684 --- [main] o.s.w.s.handler.SimpleUrlHandler
Mapping : Mapped URL path [/**/favicon.ico] onto handler of type [class org.springframewo
rk.web.servlet.resource.ResourceHttpRequestHandler]
2018-02-02 01:32:49.697 INFO 13684 --- [main] o.s.j.e.a.AnnotationMBeanExporte
r : Registering beans for JMX exposure on startup
2018-02-02 01:32:50.020 INFO 13684 --- [main] s.b.c.e.t.TomcatEmbeddedServletC
ontainer : Tomcat started on port(s): 8080 (http)
2018-02-02 01:32:50.035 INFO 13684 --- [main] hf.shopfounders.ShopFoundersApp
: ShopFoundersApp::run [ENTER]
2018-02-02 01:32:50.037 INFO 13684 --- [main] hf.shopfounders.ShopFoundersApp
: ShopFoundersApp::run [EXIT]
2018-02-02 01:32:50.042 INFO 13684 --- [main] hf.shopfounders.ShopFoundersApp
: Started ShopFoundersApp in 16.909 seconds (JVM running for 19.377)
```

Back-end displays message: **Started ShopFoundersApp in xx.yyy seconds**

6. Open your browser and go to <http://localhost:4200>

You should see the Sign In screen now. ShopFounders app is now ready to use.