

# ShopFounders v1.0 Software Product Specification (SPS)



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# 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

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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**”. (**Very Important:** Make sure port 27017 is not in use, as it may affect the maven ‘test’ phase due to port not being free for Embed MongoDB. Thus, resulting in test failure and ultimately the build failure.)
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.