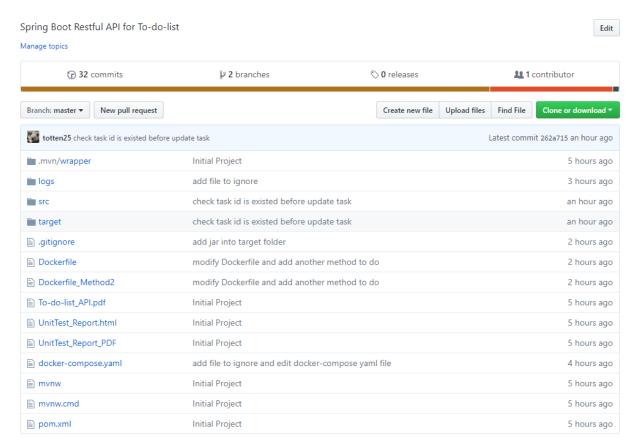# To-do-list Setup

1) Prerequisite (It can run on other UNIX systems and software version)

Test environment:

- Ubuntu OS 18.04 64bit

- docker 18.09.0

- docker-compose 1.13.0

2) Go to https://github.com/totten25/To-do-list

Spring Boot Restful API for To-do-list   Edit

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totten25 check task id is existed before update task   Latest commit 262a715 an hour ago

📁 .mvn/wrapper	Initial Project	5 hours ago
📁 logs	add file to ignore	3 hours ago
📁 src	check task id is existed before update task	an hour ago
📁 target	check task id is existed before update task	an hour ago
📄 .gitignore	add jar into target folder	2 hours ago
📄 Dockerfile	modify Dockerfile and add another method to do	2 hours ago
📄 Dockerfile_Method2	modify Dockerfile and add another method to do	2 hours ago
📄 To-do-list_API.pdf	Initial Project	5 hours ago
📄 UnitTest_Report.html	Initial Project	5 hours ago
📄 UnitTest_Report_PDF	Initial Project	5 hours ago
📄 docker-compose.yaml	add file to ignore and edit docker-compose yaml file	4 hours ago
📄 mvnw	Initial Project	5 hours ago
📄 mvnw.cmd	Initial Project	5 hours ago
📄 pom.xml	Initial Project	5 hours ago

To-do-list_API.pdf   -> API to access to-do-list service

UnitTest_Report_PDF -> UnitTest report of to-do-list service

3) Clone project into your machine

git clone https://github.com/totten25/To-do-list.git

```
totten25@ubuntu:~/other_project$ git clone https://github.com/totten25/To-do-list.git
Cloning into 'To-do-list'...
remote: Enumerating objects: 22, done.
remote: Counting objects: 100% (22/22), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 372 (delta 1), reused 14 (delta 1), pack-reused 350
Receiving objects: 100% (372/372), 38.19 MiB | 4.02 MiB/s, done.
Resolving deltas: 100% (124/124), done.
totten25@ubuntu:~/other_project$ ls
To-do-list
totten25@ubuntu:~/other_project$ |
```

4) Switch into To-do-list directory and make sure your permission are granted to execute docker-compose and docker program

```
totten25@ubuntu:~/other_project/To-do-list$ ls -al
total 764
drwxrwxr-x 7 totten25 totten25   4096 Mar 17 20:00 .
drwxrwxr-x 3 totten25 totten25   4096 Mar 17 20:00 ..
-rw-rw-r-- 1 totten25 totten25    118 Mar 17 20:00 docker-compose.yaml
-rw-rw-r-- 1 totten25 totten25    554 Mar 17 20:00 Dockerfile
-rw-rw-r-- 1 totten25 totten25    718 Mar 17 20:00 Dockerfile_Method2
drwxrwxr-x 8 totten25 totten25   4096 Mar 17 20:00 .git
-rw-rw-r-- 1 totten25 totten25    529 Mar 17 20:00 .gitignore
drwxrwxr-x 2 totten25 totten25   4096 Mar 17 20:00 logs
drwxrwxr-x 3 totten25 totten25   4096 Mar 17 20:00 .mvn
-rw-rw-r-- 1 totten25 totten25   9113 Mar 17 20:00 mvnw
-rw-rw-r-- 1 totten25 totten25   5810 Mar 17 20:00 mvnw.cmd
-rw-rw-r-- 1 totten25 totten25   3404 Mar 17 20:00 pom.xml
drwxrwxr-x 4 totten25 totten25   4096 Mar 17 20:00 src
drwxrwxr-x 3 totten25 totten25   4096 Mar 17 20:00 target
-rw-rw-r-- 1 totten25 totten25 567851 Mar 17 20:00 To-do-list_API.pdf
-rw-rw-r-- 1 totten25 totten25  10703 Mar 17 20:00 UnitTest_Report.html
-rw-rw-r-- 1 totten25 totten25 127657 Mar 17 20:00 UnitTest_Report_PDF
```

5) You have to execute command as following below (all command in one line)

```
docker-compose rm app && docker-compose up -d --build && docker-compose logs -f app
```

The description as shown below

    5.1) docker-compose rm app -> try to check existing docker-compose container is existed then remove it.

    If you have existing container, you have to answer y and hit enter as following below

```
totten25@ubuntu:~/other_project/To-do-list$ docker-compose rm app && docker-compose up -d --build && docker-compose logs -f app
Going to remove todolist_app_1
Are you sure? [yN] y
```

    5.2) docker-compose up –d –build -> build image and then start container in background

    5.3) docker-compose logs –f app -> monitor and verify that app is started successfully

6) Container started successful (red square) and output as shown below

```
app_1  |       ...]
app_1  | 2019-03-17 13:10:38.310  INFO 1 --- [        main] org.hibernate.Version              : HHH000412: Hibernate Core {5.3.7.Final}
app_1  | 2019-03-17 13:10:38.313  INFO 1 --- [        main] org.hibernate.cfg.Environment       : HHH000206: hibernate.properties not found
app_1  | 2019-03-17 13:10:38.611  INFO 1 --- [        main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.0.4.Final}
app_1  | 2019-03-17 13:10:39.192  INFO 1 --- [        main] org.hibernate.dialect.Dialect       : HHH000400: Using dialect: org.hibernate.dialect.H2Dialect
app_1  | 2019-03-17 13:10:40.441  INFO 1 --- [        main] o.h.t.schema.internal.SchemaCreatorImpl : HHH000476: Executing import script 'org.hibernate.tool.schema.internal.exe
rceInputNonExistentImpl@22ffa91a'
app_1  | 2019-03-17 13:10:40.447  INFO 1 --- [        main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
app_1  | 2019-03-17 13:10:41.431  INFO 1 --- [        main] o.h.h.i.QueryTranslatorFactoryInitiator : HHH000397: Using ASTQueryTranslatorFactory
app_1  | 2019-03-17 13:10:42.411  INFO 1 --- [        main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 2 endpoint(s) beneath base path '/actuator'
app_1  | 2019-03-17 13:10:42.603  INFO 1 --- [        main] pertySourcedRequestMappingHandlerMapping : Mapped URL path [/v2/api-docs] onto method [public org.springframework.htt
ntity<springfox.documentation.spring.web.json.Json> springfox.documentation.swagger2.web.Swagger2Controller.getDocumentation(java.lang.String,javax.servlet.http.HttpServletRequest)
app_1  | 2019-03-17 13:10:42.909  WARN 1 --- [        main] aWebConfiguration$JpaWebMvcConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries
formed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
app_1  | 2019-03-17 13:10:43.610  INFO 1 --- [        main] d.s.w.p.DocumentationPluginsBootstrapper : Context refreshed
app_1  | 2019-03-17 13:10:43.673  INFO 1 --- [        main] d.s.w.p.DocumentationPluginsBootstrapper : Found 1 custom documentation plugin(s)
app_1  | 2019-03-17 13:10:43.795  INFO 1 --- [        main] s.d.s.w.s.ApiListingReferenceScanner : Scanning for api listing references
app_1  | 2019-03-17 13:10:44.263  INFO 1 --- [        main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
app_1  | 2019-03-17 13:10:44.269  INFO 1 --- [        main] com.todolist.task.TaskApplication   : Started TaskApplication in 14.853 seconds (JVM running for 16.038)
```

7) Stop container (when you want to stop it)

    docker-compose stop app

8) Start container (<u>when you want to start it without build program</u>)

    docker-compose start app && docker-compose logs –f app

9) If you want to build project again please go back to No. 5