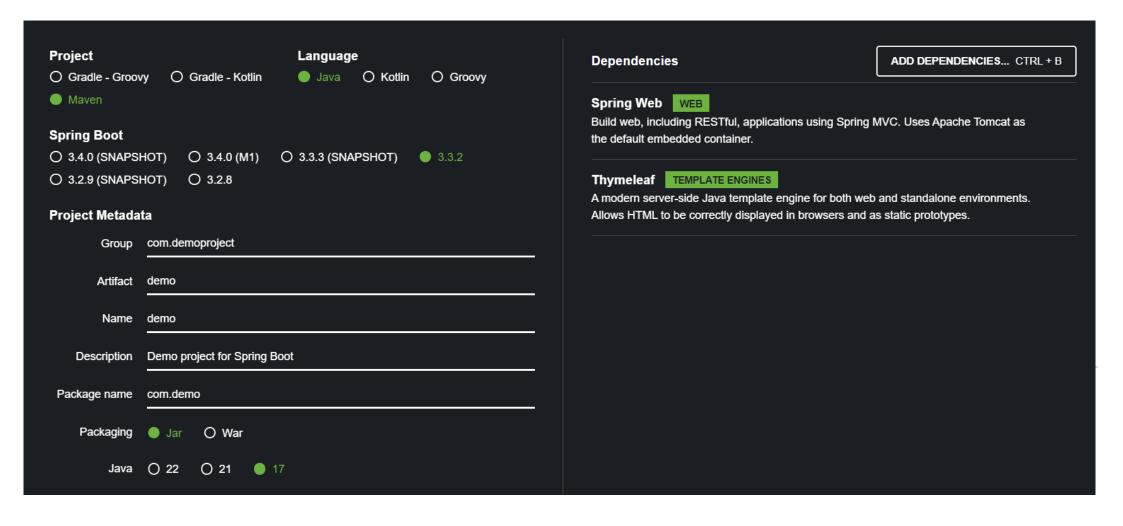
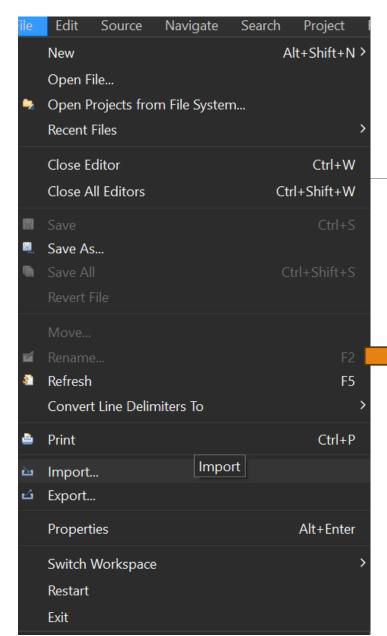


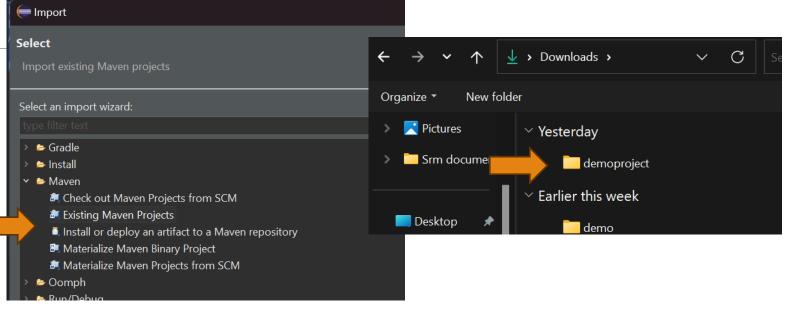
# Spring web project

SREYA B

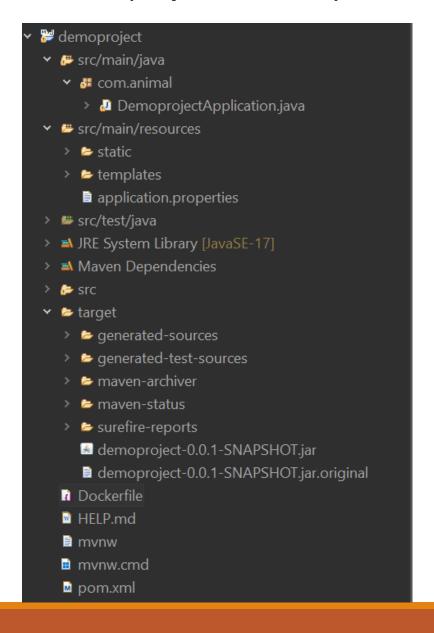
# Creating Maven project with dependencies







# Maven project directory

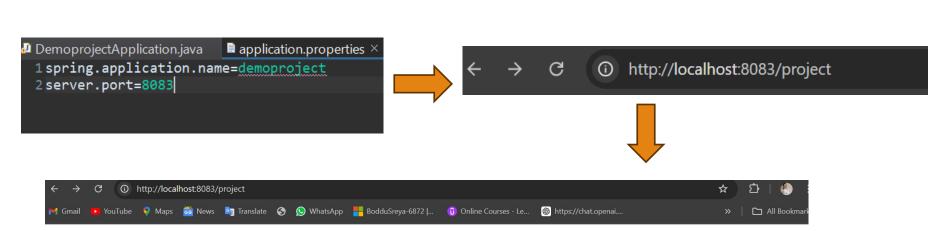


- DemoprojectApplication.java is the main application class, annotated with @SpringBootApplication.
- It serves as the entry point for your Spring Boot application. The main method within this class runs the application.
- Created static and templates folders in src/test/resources.
- Static folder contains another folder called Images.
- This folder holds Thymeleaf templates (.html files). These templates are rendered by the Spring Boot framework and presented as the UI.
- The application.properties file configures settings like server port and database connections for your Spring Boot application.

# Main application class

```
🛮 Dockerfile 🚨 DemoprojectApplication.java 🗴 🗎 application.properties 📑 gallery.html 📑 animalDetail.html
 1 package com.animal;
 a 3 import org.springframework.boot.SpringApplication; ☐
12 @Controller
   @SpringBootApplication
 14 public class DemoprojectApplication {
         @Controller
 18e
                @GetMapping("/project")
                public String showGallery() {
                @GetMapping("/animalDetail/{animal}")
                public String showAnimalDetail(@PathVariable("animal") String animal, Model model) {
                    String animalName;
                    String animalDescription;
                    String animalImage;
                    switch (animal) {
                        case "rhino":
                             animalName = "Rhino";
                            animalDescription = "Rhinoceroses are large, herbivorous mammals.";
                            animalImage = "rhino.jpg";
                        case "bear":
```

```
:: Spring Boot ::
                       (v3.3.2)
2024-07-31T22:36:09.369+05:30 INFO 11104 --- [demoproject] [
                                                 main] com.animal.DemoprojectApplication
                                                                                   : Start
                                                 main] com.animal.DemoprojectApplication
: No ac
                                                 main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomca
main] o.apache.catalina.core.StandardService
: Start
2024-07-31T22:36:11.436+05:30 INFO 11104 --- [demoproject] [
                                                 main] o.apache.catalina.core.StandardEngine
                                                                                  : Start
main] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                   : Initi
                                                 main] w.s.c.ServletWebServerApplicationContext : Root
2024-07-31T22:36:11.571+05:30 INFO 11104 --- [demoproject] [
                                                 main] ConfigServletWebServerApplicationContext : Excep
2024-07-31T22:36:12.155+05:30 WARN 11104 --- [demoproject] [
main] .s.b.a.l.ConditionEvaluationReportLogger :
```



#### **Animal Gallery**

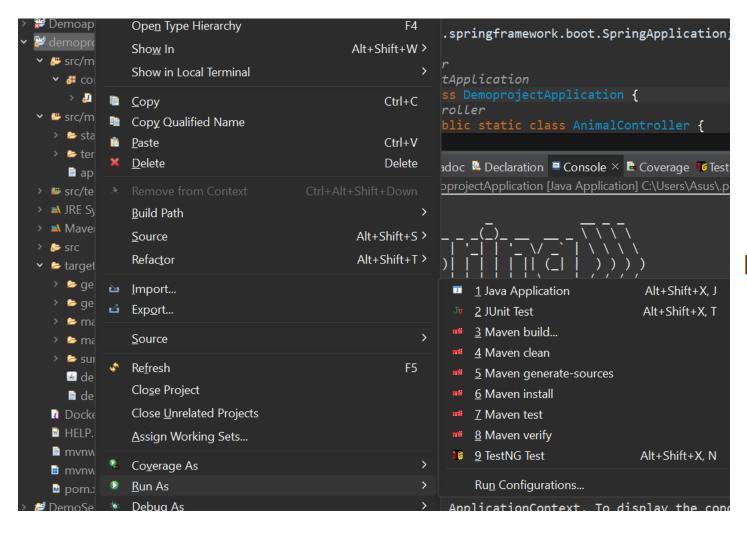


Lion

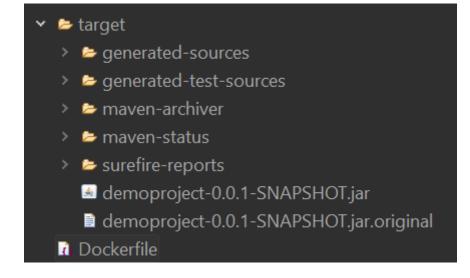


Lions are large carnivorous felines.  $\underline{Back\ to\ Gallery}$ 

# Creation of jar file

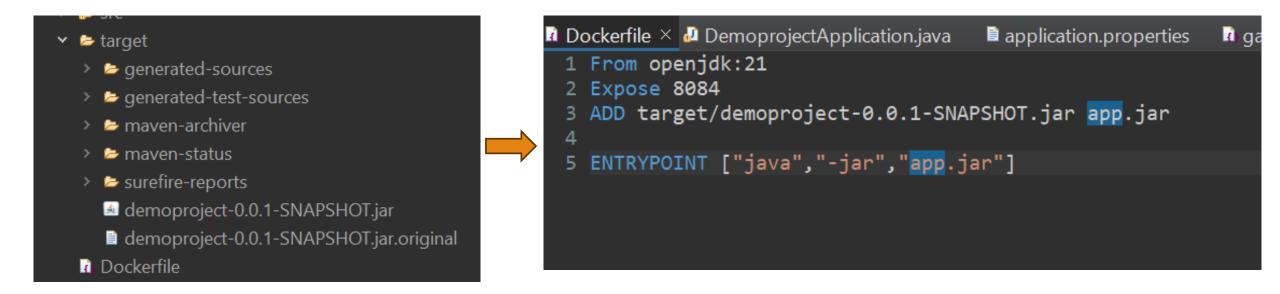


#### Demoproject -> Run as -> Maven install

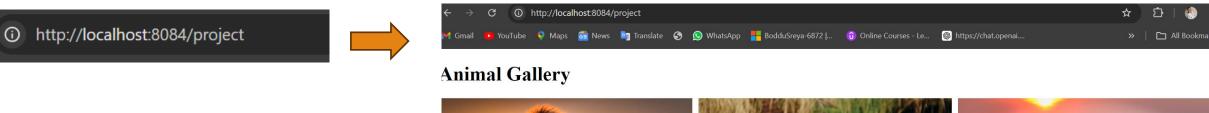




# Creating a dockerfile



- Build docker image: docker build -t app.
- Run docker container : docker run -p 8084:8083 app



Lion















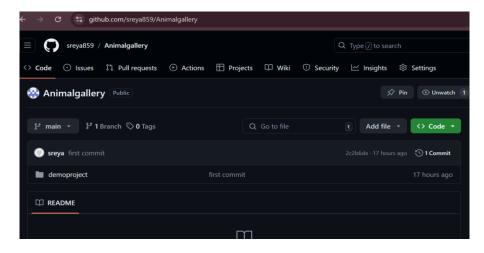


- Login to dockerhub
- Tag the docker image: docker tag app sreya859/app:latest
- Push the image to docker: docker push sreya859/app:latest

```
C:\Users\Asus\Downloads\demoproject\demoproject>docker images
REPOSITORY
                   TAG
                             IMAGE ID
                                            CREATED
                                                             SIZE
                             cd2e13f5a5ec
                                                             528MB
                   latest
                                            5 minutes ago
app
demoage
                   latest
                             9755ee008b17
                                            5 minutes ago
                                                             528MB
                   latest
                            1e9ffd3b40e1
                                            9 minutes ago
                                                             528MB
demoque
sreya859/demoage
                            e6bb6e912b98
                  latest
                                           32 minutes ago
                                                             528MB
C:\Users\Asus\Downloads\demoproject\demoproject>docker ps
CONTAINER ID
                        COMMAND
                                               CREATED
                                                               STATUS
                                                                                                                 NAMES
              IMAGE
                                                                              PORTS
a2a804a9d9a1
                         "java -jar app.jar" 9 seconds ago
                                                                              8084/tcp, 0.0.0.0:8084->8083/tcp
                                                               Up 9 seconds
                                                                                                                 app-container2
              app
C:\Users\Asus\Downloads\demoproject\demoproject>docker tag app sreya859/app:latest
C:\Users\Asus\Downloads\demoproject\demoproject>docker push sreya859/app:latestest
The push refers to repository [docker.io/sreya859/app]
tag does not exist: sreya859/app:latestest
C:\Users\Asus\Downloads\demoproject\demoproject>docker push sreya859/app:latest
The push refers to repository [docker.io/sreya859/app]
2afe7bc0d8b5: Pushed
10359c5dc4ba: Mounted from sreya859/demoage
601b48657e0c: Mounted from sreya859/demoage
b42107e74152: Mounted from sreya859/demoage
latest: digest: sha256:99a4d2dae538adb8fee3393e5e20069d8ba0df45c6737f6b023dc9fb3bf51c86 size: 1166
```

#### Image pushed in docker





#### Jenkins pipeline

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/resolver/maven-resolver-api/1.9.18/maven-resolver-api-1.9.18.jar (157 kB at 1.0 MB/s)

[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\NakshatraLibrary\pom.xml to

C:\WINDOWS\system32\config\systemprofile\.m2\repository\com\amdocs\demo\0.0.1-SNAPSHOT\demo-0.0.1-SNAPSHOT.jar to

C:\WINDOWS\system32\config\systemprofile\.m2\repository\com\amdocs\demo\0.0.1-SNAPSHOT\demo-0.0.1-SNAPSHOT.jar

[INFO]

[INFO] BUILD SUCCESS

[INFO]

[INFO] Total time: 02:27 min

[INFO] Finished at: 2024-08-01T11:07:25+05:30

[INFO]

Finished: SUCCESS
```

# THANK YOU!