Java Programming (CSE1007)

Digital Assignment - 3

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17BCE1330

Question:

Create a Web Application using Spring-Boot

Web Application Created: A To-Do List

Code:

Pom.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSc
hema-
instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/x
sd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.2.2.RELEASE</version>
        <relativePath /> <!-- lookup parent from repository -->
    </parent>
    <groupId>com.example</groupId>
    <artifactId>spring-boot</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>spring-boot</name>
    <description>Demo project for Spring Boot</description>

    <properties>
        <java.version>1.8</java.version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
```

```
        </dependency>

        <!-- tag::actuator[] -->
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-actuator</artifactId>
        </dependency>
        <!-- end::actuator[] -->
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-thymeleaf</artifactId>
        </dependency>
        <!-- tag::tests[] -->
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
            <exclusions>
                <exclusion>
                    <groupId>org.junit.vintage</groupId>
                    <artifactId>junit-vintage-engine</artifactId>
                </exclusion>
            </exclusions>
        </dependency>
        <!-- end::tests[] -->
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>
```

Controller.java

```
package com.example.springboot;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.bind.annotation.RequestMapping;

@RestController
public class HelloController {

    @RequestMapping("/")
    public String viewHome() {
        return "To-
Do List for JAVA Programming DA3 by Robin Thomas deployed in following link: https://radia
```

```
nt-cliffs-58750.herokuapp.com GitHub Repo for APP: https://github.com/TheRealHazzard/To-Do-list-Version-3 ";
    }

}
```

Application.java

```
package com.example.springboot;

import java.util.Arrays;

import org.springframework.boot.CommandLineRunner;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ApplicationContext;
import org.springframework.context.annotation.Bean;

@SpringBootApplication
public class Application {

    public static void main(String[] args) {
        SpringApplication.run(Application.class, args);
    }

}
```

Application.properties:

```
server.contextPath=/example
server.port=8085
```

Steps to Run application:

1) Run the following command at the root directory:

```
./mvnw spring-boot:run
```

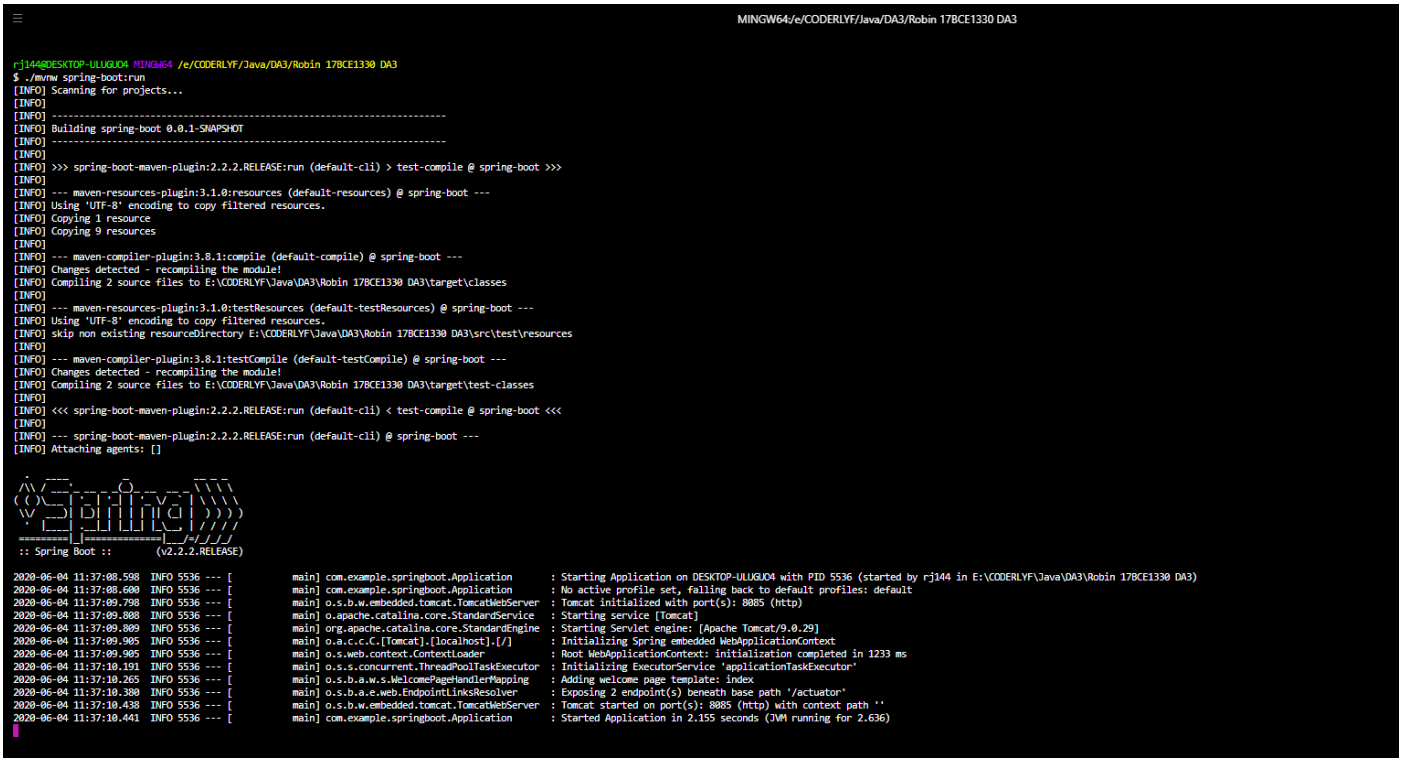
2) Open localhost:8085 in any web browser
3) Navigate to the link that appears on screen
4) You have reached the application page. Use The “+” icon to add a note.
5) Tick the checkbox to delete a note.

GitHub repo: https://github.com/TheRealHazzard/To-Do-list-Version-3

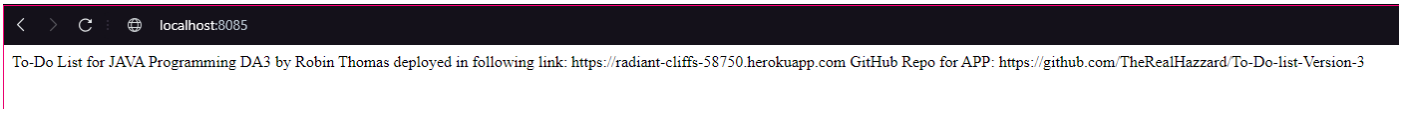
Deployed on Heroku at : https://radiant-cliffs-58750.herokuapp.com

Output Screenshots:

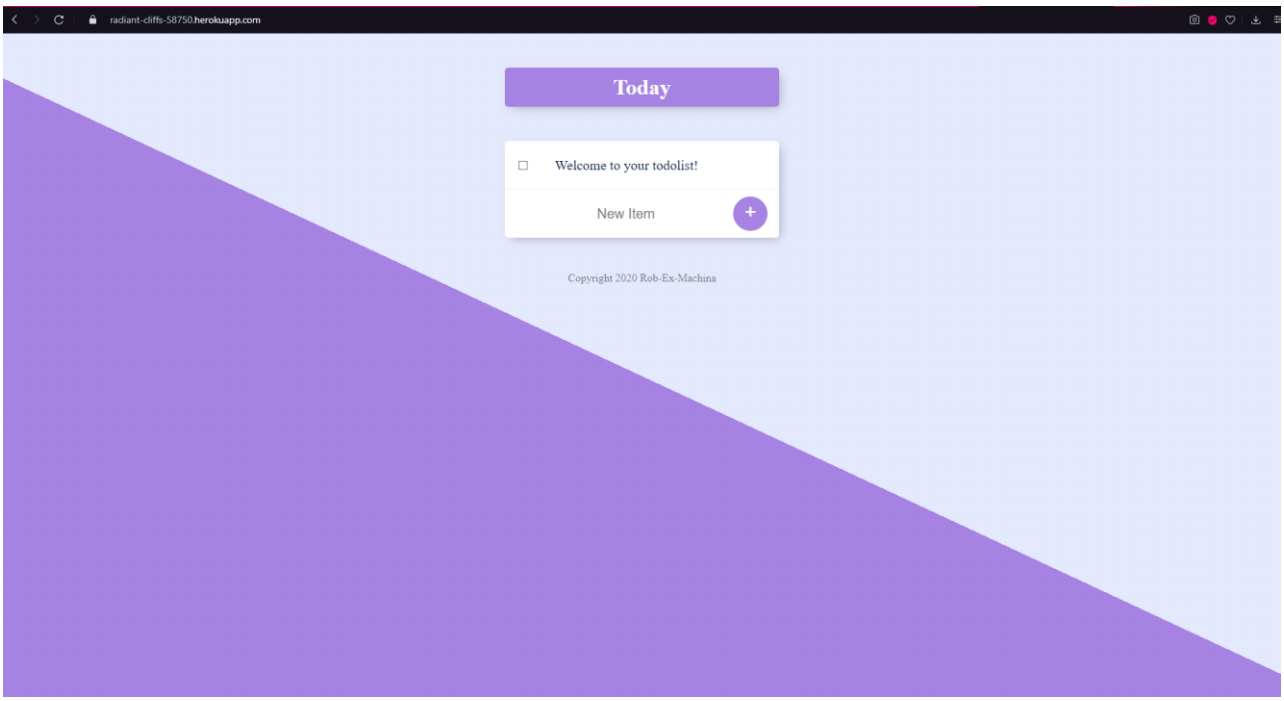
Cli:



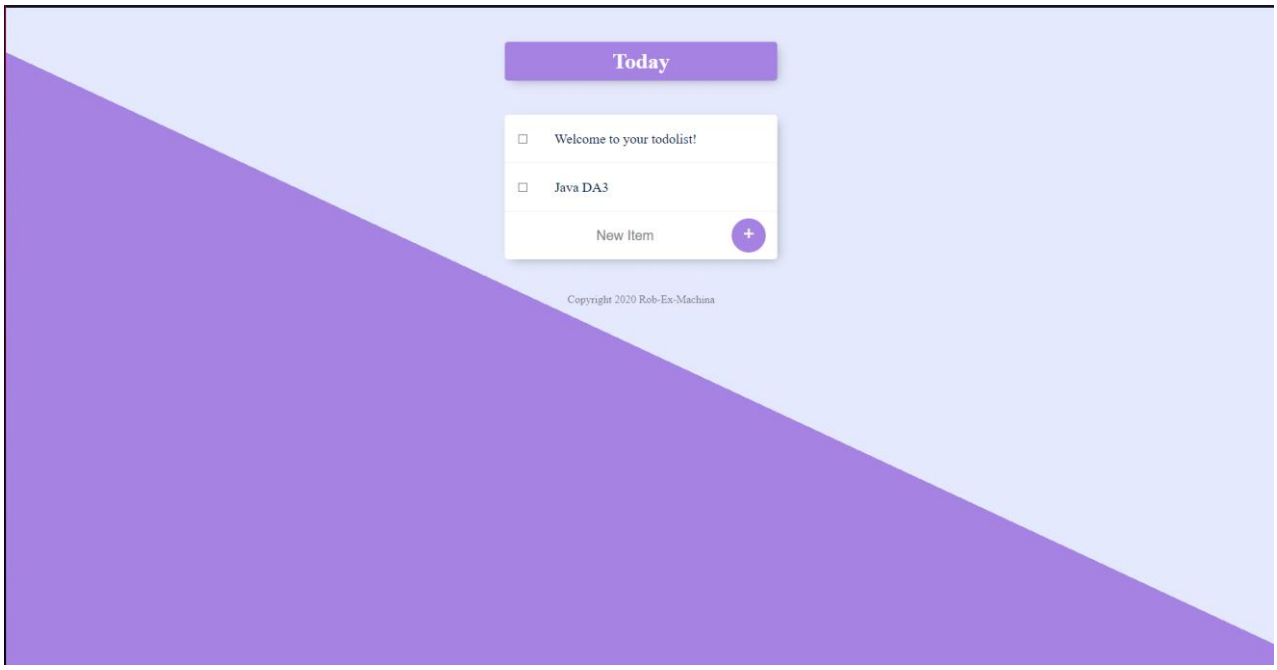
Localhost:8085:



Deployed final app:



Added a list item:



Note: MongoDB atlas is used to store the notes in a database.