Name-Anant Srivastava

Reg-240958248
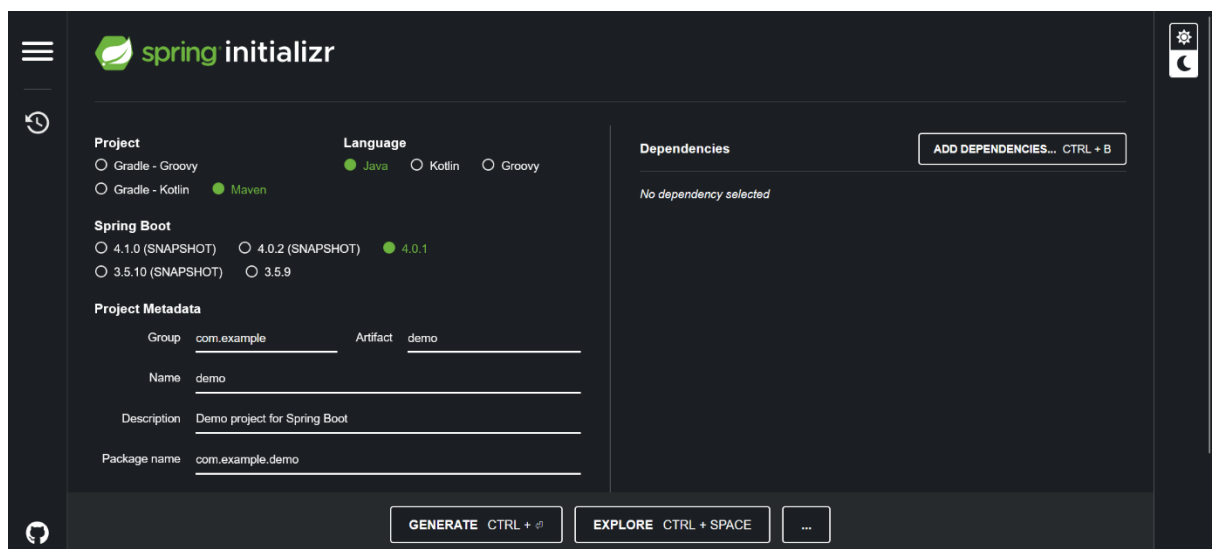
CSFT

Roll-68

Aim

To create a Spring Boot REST API, manage the project using Maven and Git, and deploy the application on Azure Cloud.
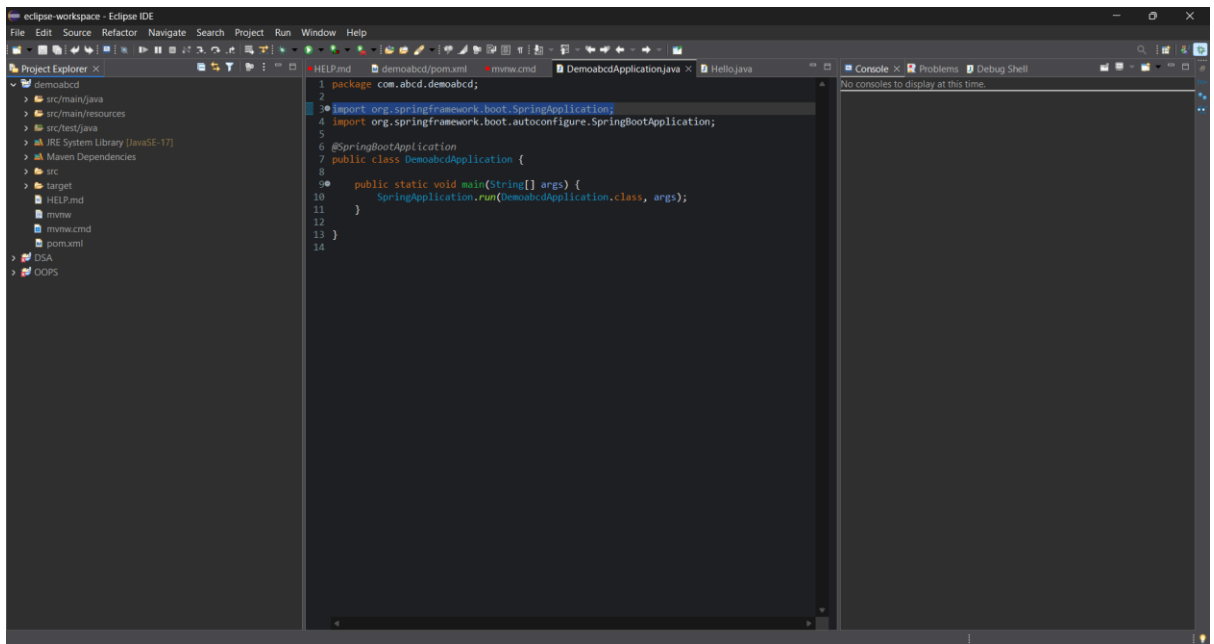
Software Requirements

Java (JDK 17), Maven, Eclipse IDE, Git, GitHub, Azure Cloud Shell, MySQL, Postman.
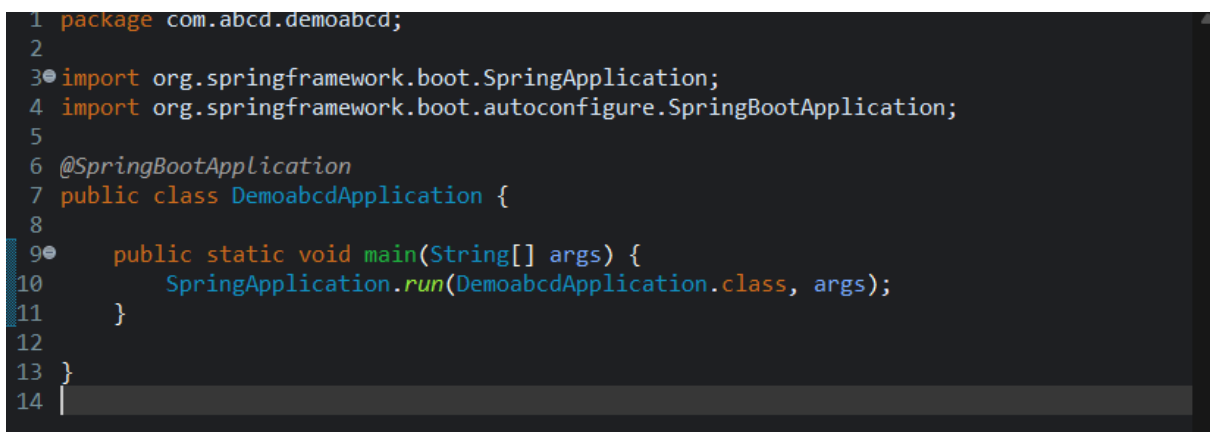
Procedure

1. Create a Spring Boot project using **Spring Initializr** with Maven and Spring Web dependency.
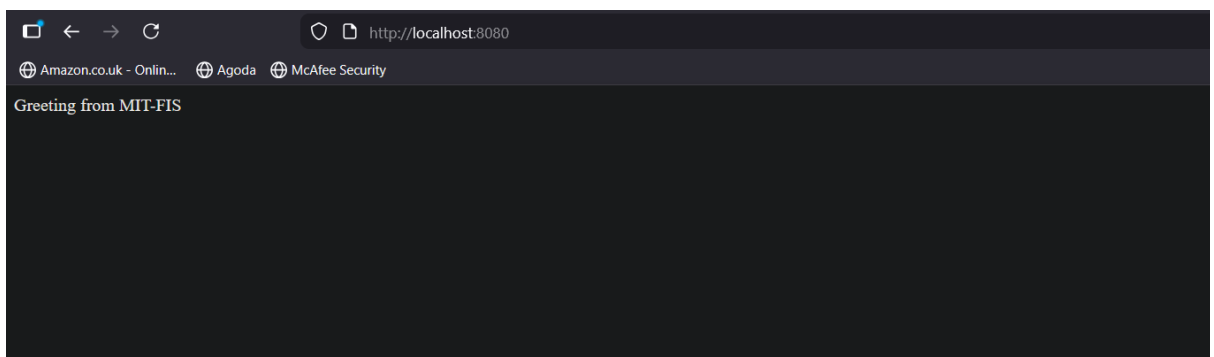

2. Import the project into **Eclipse IDE**.

3. Write a simple REST controller using @RestController and @GetMapping.

```
1  package com.abcd.demoabcd;
2
3  import org.springframework.boot.SpringApplication;
4  import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6  @SpringBootApplication
7  public class DemoabcdApplication {
8
9      public static void main(String[] args) {
10          SpringApplication.run(DemoabcdApplication.class, args);
11      }
12
13  }
14
```

4. Run the application locally on port 8080.

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5. Initialize Git, commit the project, and push it to GitHub.

```
      stash
PS C:\Users\hp\Downloads\demoabcd> git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\hp\Downloads\demoabcd>
```

```
PS C:\Users\hp\Downloads\demoabcd> git log
commit dc355f3d109e30472369a47a6ce1c60a1ef79fa4 (HEAD -> main, origin/main)
Author: Anant Srivastava <anant1.mitmpl2024@learner.manipal.edu>
Date:   Fri Jan 16 09:45:15 2026 +0530

    updated for submission

commit deed21ecce7facab602c80f05569290587f5109e
Author: Anant Srivastava <anant1.mitmpl2024@learner.manipal.edu>
Date:   Fri Jan 9 09:21:26 2026 +0530

    Hello
```

6. Open **Azure Cloud Shell**, clone the GitHub repository.

```
anant [ ~ ]$ git clone https://github.com/Anxnt111/Demoabcd.git mywebapp
Cloning into 'mywebapp'...
remote: Enumerating objects: 29, done.
remote: Counting objects: 100% (29/29), done.
remote: Compressing objects: 100% (17/17), done.
remote: Total 29 (delta 2), reused 29 (delta 2), pack-reused 0 (from 0)
Receiving objects: 100% (29/29), 10.40 KiB | 5.20 MiB/s, done.
Resolving deltas: 100% (2/2), done.
anant [ ~ ]$ cd mywebapp
anant [ ~/mywebapp ]$ mvn com.microsoft.azure:azure-webapp-maven-plugin:2.13.0:config
[INFO] Scanning for projects...
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/3.2.5/spring-boot-starter-parent-3.2.5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-starter-parent/3.2.5/spring-boot-starter-parent-3.2.5.pom (13 kB at 25 kB
/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-dependencies/3.2.5/spring-boot-dependencies-3.2.5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-dependencies/3.2.5/spring-boot-dependencies-3.2.5.pom (111 kB at 1.5 MB/s
)
Downloading from central: https://repo.maven.apache.org/maven2/org/assertj/assertj-bom/3.24.2/assertj-bom-3.24.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/assertj/assertj-bom/3.24.2/assertj-bom-3.24.2.pom (3.7 kB at 28 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/io/zipkin/brave/brave-bom/5.16.0/brave-bom-5.16.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/io/zipkin/brave/brave-bom/5.16.0/brave-bom-5.16.0.pom (12 kB at 358 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/io/zipkin/reporter2/zipkin-reporter-bom/2.16.3/zipkin-reporter-bom-2.16.3.pom
Downloaded from central: https://repo.maven.apache.org/maven2/io/zipkin/reporter2/zipkin-reporter-bom/2.16.3/zipkin-reporter-bom-2.16.3.pom (6.9 kB at 140 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/com/datastax/oss/java-driver-bom/4.17.0/java-driver-bom-4.17.0.pom
```

```
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/spring-framework-bom/6.1.6/spring-framework-bom-6.1.6.pom (5.8 kB at 157 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/integration/spring-integration-bom/6.2.4/spring-integration-bom-6.2.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/integration/spring-integration-bom/6.2.4/spring-integration-bom-6.2.4.pom (10 kB at 308 kB
/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/pulsar/spring-pulsar-bom/1.0.5/spring-pulsar-bom-1.0.5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/pulsar/spring-pulsar-bom/1.0.5/spring-pulsar-bom-1.0.5.pom (2.7 kB at 55 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/restdocs/spring-restdocs-bom/3.0.1/spring-restdocs-bom-3.0.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/restdocs/spring-restdocs-bom/3.0.1/spring-restdocs-bom-3.0.1.pom (2.6 kB at 74 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/security/spring-security-bom/6.2.4/spring-security-bom-6.2.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/security/spring-security-bom/6.2.4/spring-security-bom-6.2.4.pom (5.3 kB at 167 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/session/spring-session-bom/3.2.2/spring-session-bom-3.2.2.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/session/spring-session-bom/3.2.2/spring-session-bom-3.2.2.pom (2.9 kB at 93 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/ws/spring-ws-bom/4.0.10/spring-ws-bom-4.0.10.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/ws/spring-ws-bom/4.0.10/spring-ws-bom-4.0.10.pom (3.5 kB at 103 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/testcontainers/testcontainers-bom/1.19.7/testcontainers-bom-1.19.7.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/testcontainers/testcontainers-bom/1.19.7/testcontainers-bom-1.19.7.pom (10 kB at 347 kB/s)
[INFO]
[INFO] ----------------------< com.abcd:demoabcd >----------------------
[INFO] Building demoabcd 0.0.1-SNAPSHOT
[INFO]   from pom.xml
[INFO] --------------------------------[ jar ]--------------------------------
[INFO]
[INFO] --- azure-webapp:2.13.0:config (default-cli) @ demoabcd ---
Please choose which part to config [Application]:
* 1: Application
  2: Runtime
  3: DeploymentSlot
Enter your choice: []
```

7. Configure Azure Web App using Maven plugin.

8. Build and deploy the application to Azure.

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