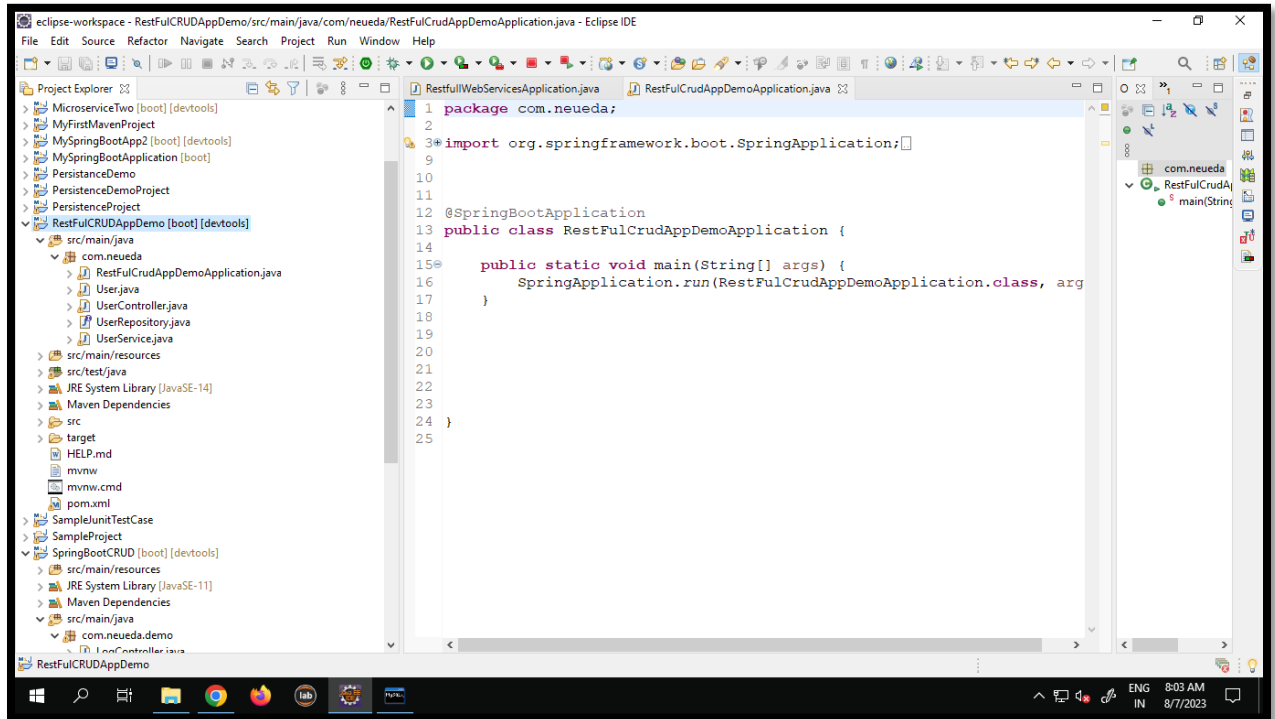


Swagger Implementation to RestFul WebApp

1. First Create SpringbootCRUD App: <https://github.com/Nikunj-Java/neueda/tree/main/Lab-2/SpringBootCRUD>



2. Now lets start with Swaager
 - a. Add the dependencies for swagger

```
<dependency>
  <groupId>io.springfox</groupId>
  <artifactId>springfox-swagger2</artifactId>
  <version>2.7.0</version>
</dependency>
```

```
<dependency>
  <groupId>io.springfox</groupId>
  <artifactId>springfox-swagger-ui</artifactId>
  <version>2.7.0</version>
</dependency>
```

b. Also check your parent pom.xml file must have below parent tag

```
<parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-
parent</artifactId>
    <version>2.6.7</version>
    <relativePath /> <!-- lookup parent from
repository -->
</parent>
```

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/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.6.7</version>
        <relativePath /> <!-- lookup parent from repository --
>
    </parent>
    <groupId>com.simplilearn.demo</groupId>
    <artifactId>SpringBootCRUD</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>SpringBootCRUD</name>
    <description>SpringBootCRUD</description>
    <properties>
        <java.version>11</java.version>
    </properties>
    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-data-
jpa</artifactId>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
        </dependency>
```

```

<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <scope>runtime</scope>
</dependency>
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-test</artifactId>
    <scope>test</scope>
</dependency>

<dependency>
    <groupId>org.junit.jupiter</groupId>
    <artifactId>junit-jupiter-api</artifactId>
    <version>5.8.2</version>
    <scope>test</scope>
</dependency>
<dependency>
    <groupId>org.junit.jupiter</groupId>
    <artifactId>junit-jupiter-engine</artifactId>
    <version>5.8.2</version>
    <scope>test</scope>
</dependency>

<dependency>
    <groupId>com.allenru</groupId>
    <artifactId>cross-origin</artifactId>
    <version>1.0.1</version>
</dependency>

<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-devtools</artifactId>
</dependency>

<dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger2</artifactId>
    <version>2.7.0</version>
</dependency>

<dependency>
    <groupId>io.springfox</groupId>
    <artifactId>springfox-swagger-ui</artifactId>
    <version>2.7.0</version>
</dependency>

```

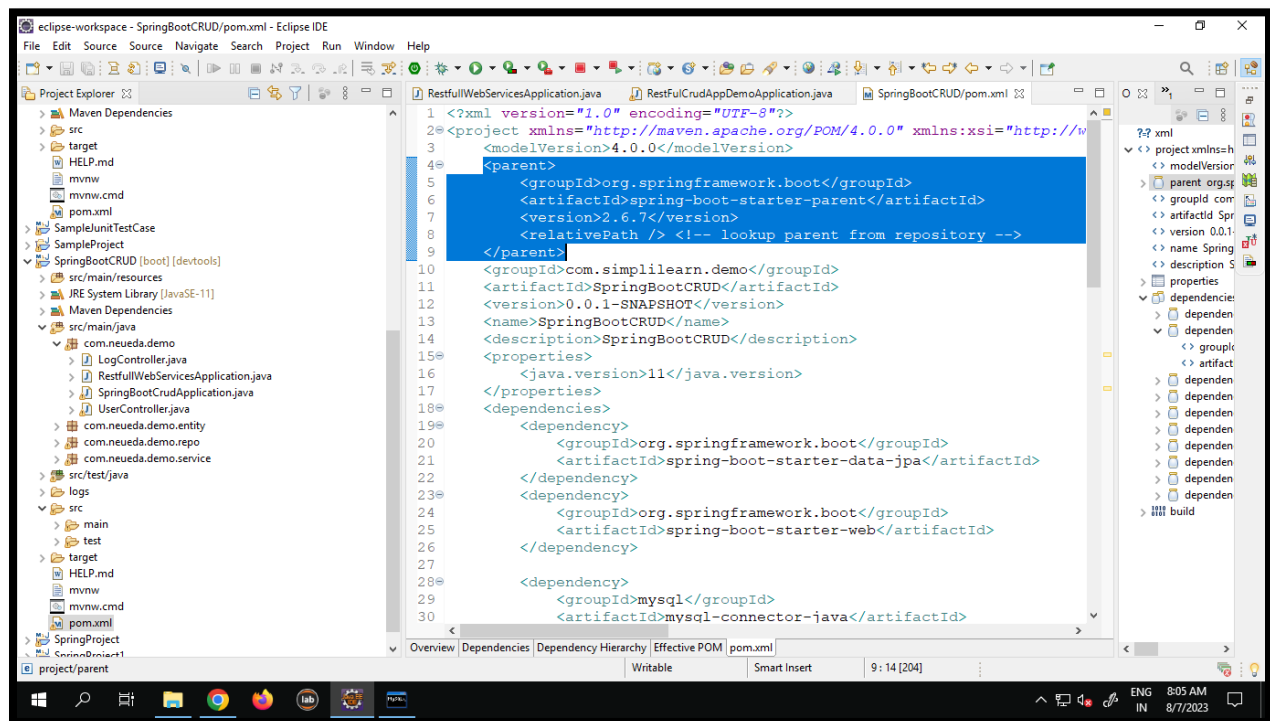
```

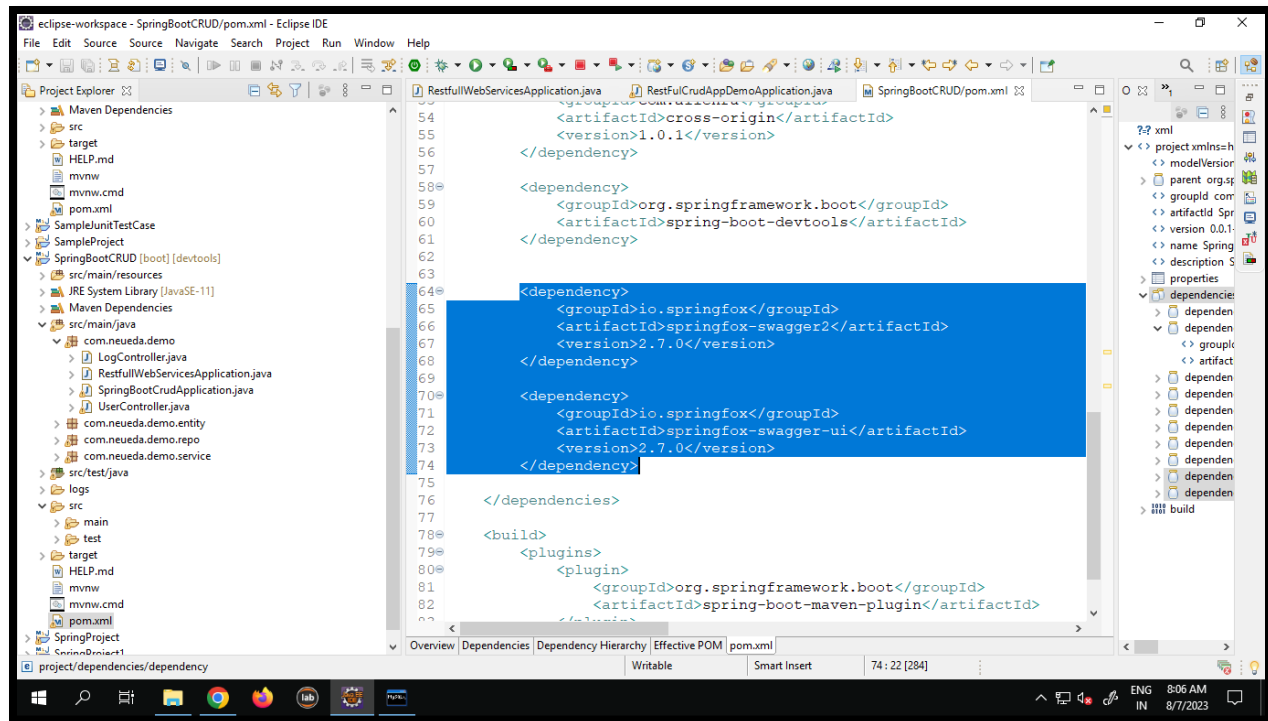
</dependencies>

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

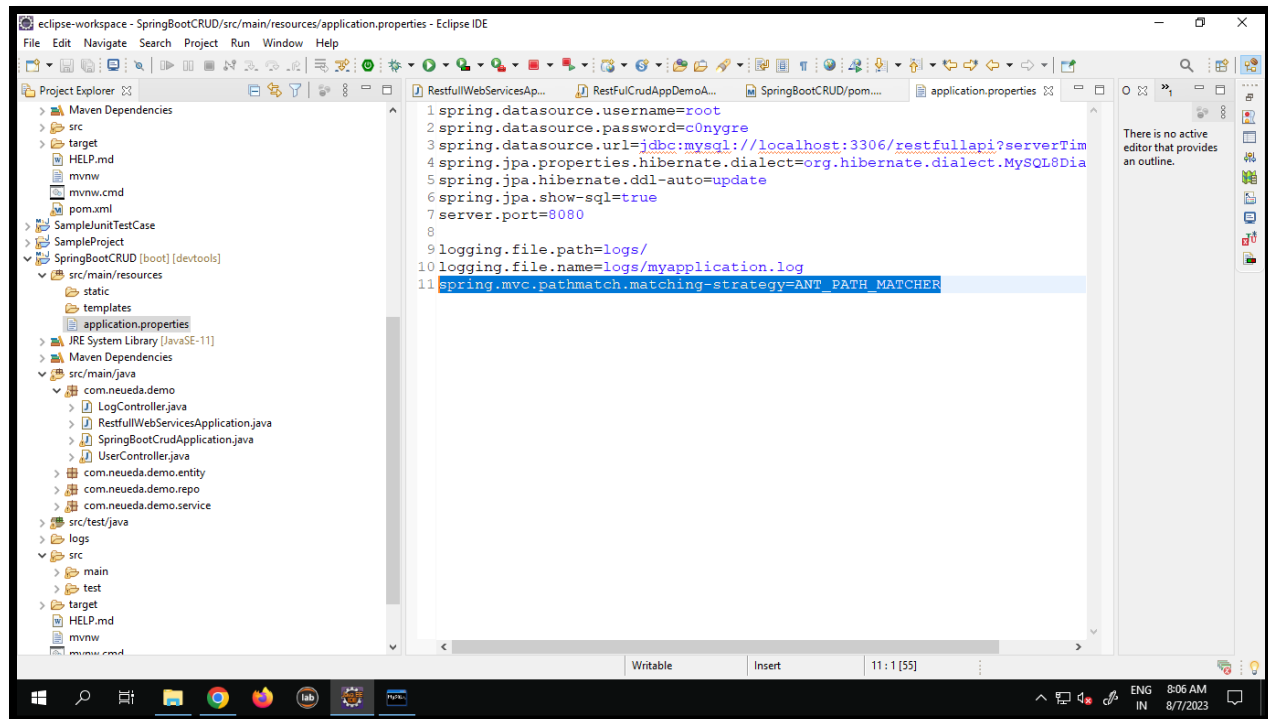
</project>

```





- c. Goto applications.properties file and add the below line
`spring.mvc.pathmatch.matching-strategy=ANT_PATH_MATCHER`



- d. Now goto to your main app and add the below Annotation

Note: Make sure you change your package name

```
package com.neueda.demo;
```

```
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
```

```
import springfox.documentation.builders.RequestHandlerSelectors;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2;
```

```
@SpringBootApplication
```

```
@EnableSwagger2
```

```
@Configuration
```

```
public class RestfullWebServicesApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(RestfullWebServicesApplication.class, args);
```

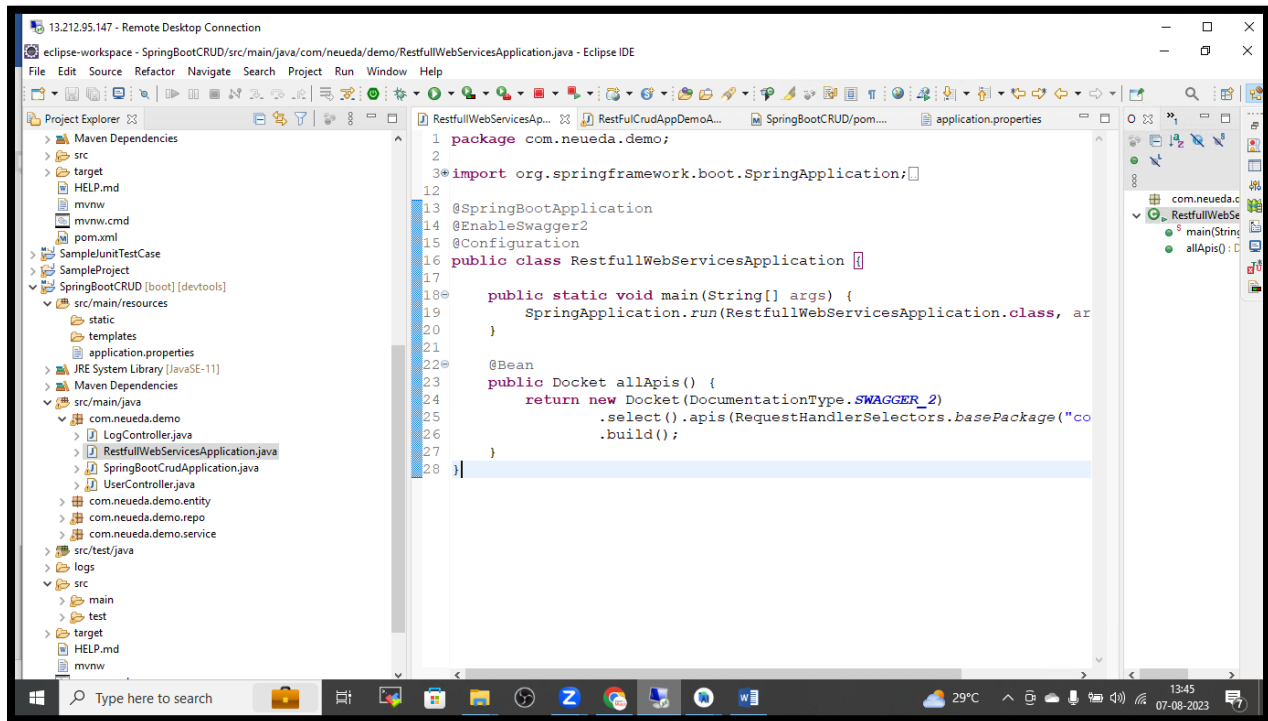
```

    }

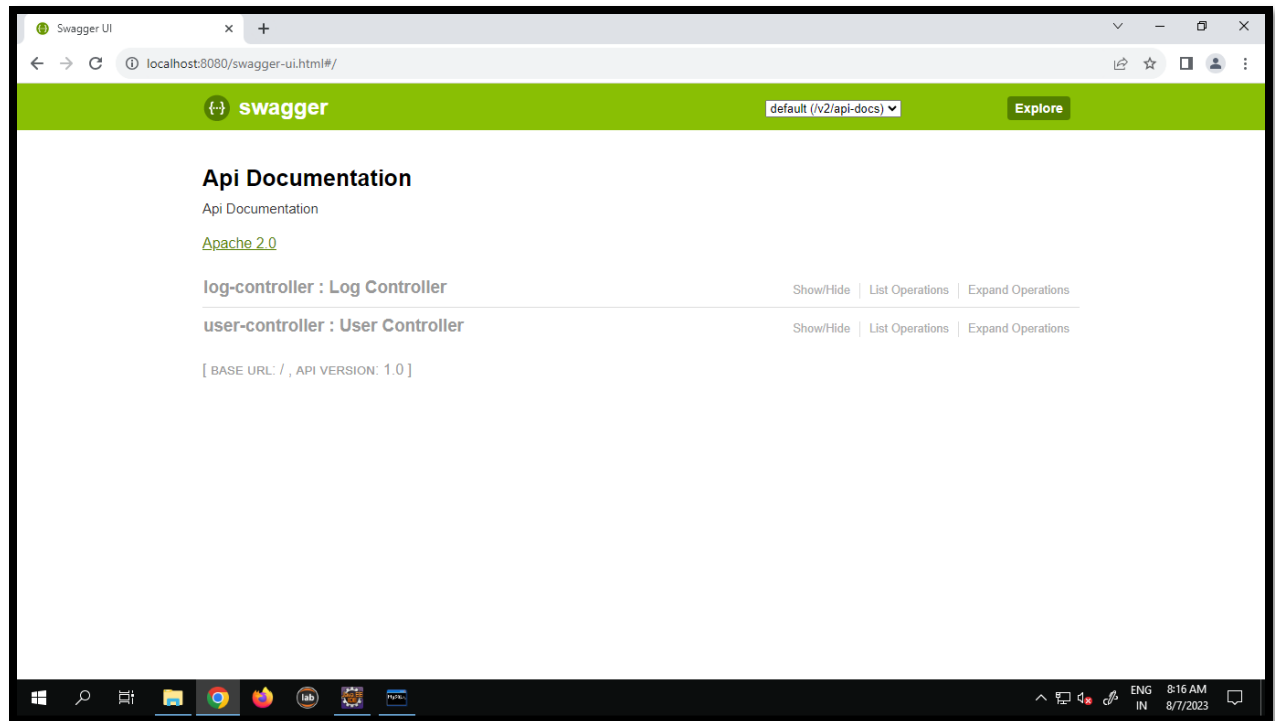
    @Bean
    public Docket allApis() {
        return new Docket(DocumentationType.SWAGGER_2)

        .select().apis(RequestHandlerSelectors.basePackage("com.neueda.demo"))
        .build();
    }
}

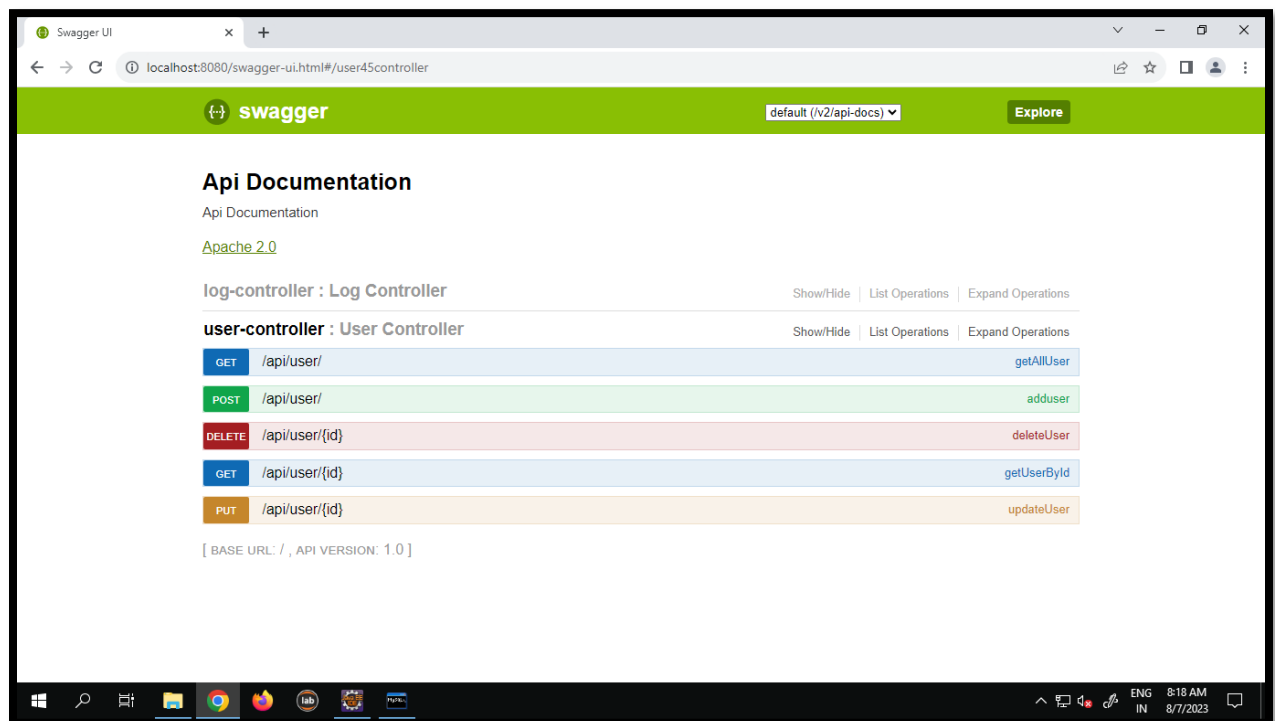
```



- e. Goto the browser and type:
<http://localhost:8080/swagger-ui.html>



f. Now you will have all controls over api



Thankyou