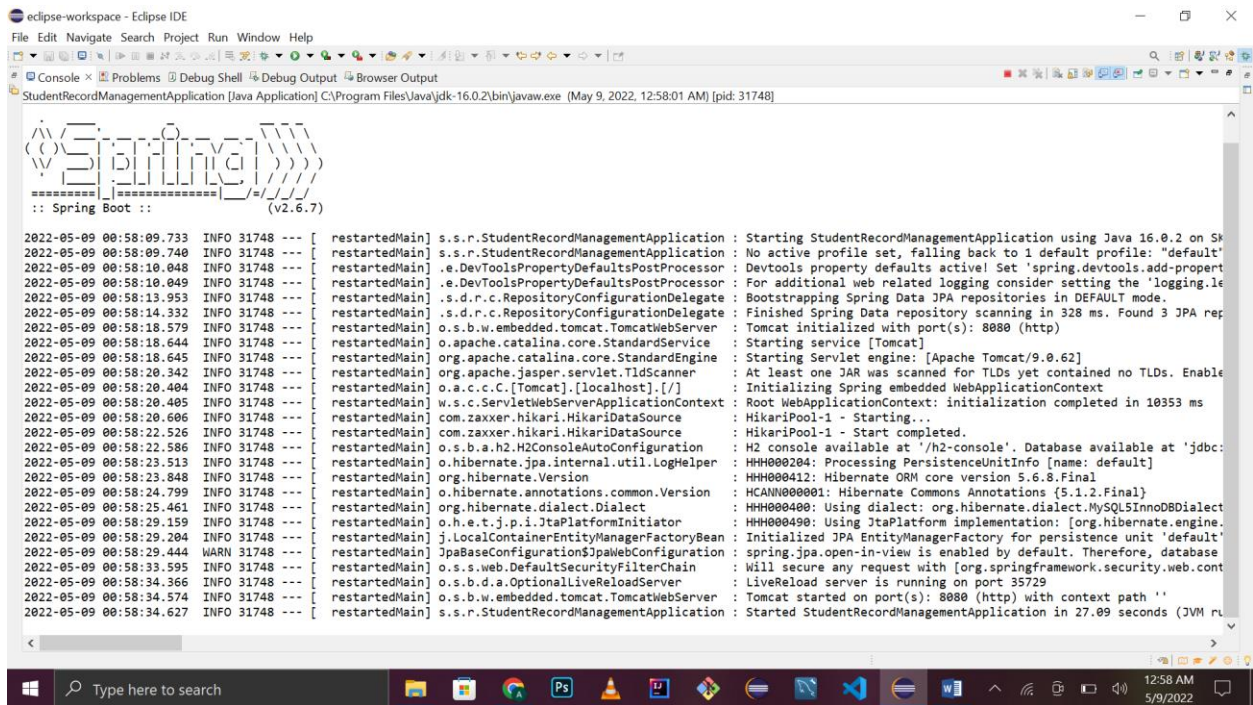


**BACK-END LAB 6**  
**STUDENT RECORD MANAGEMENT**  
**USING**  
**SPRING BOOT, JPA/ORM, SECURITY**

**SNAPSHOTS**  
**FOR THE CRUD OPERATION**  
**USING SPRING BOOT PROJECT+ SECURITY**

## Project Compilation & Execution logs - Successful



The screenshot displays the Eclipse IDE interface with the console window open. The console shows the output of the Java application, including the Spring Boot logo and a series of log messages. The application is running on Java 16.0.2 and is using the default profile. The logs indicate that the application is starting successfully, with various components like Tomcat, HikariPool, and Hibernate being initialized. The application is running on port 8080 (http) and is using the default context path. The logs also show that the application is using the default security filter chain and that the live reload server is running on port 35729. The application is running on port 8080 (http) with context path ''.

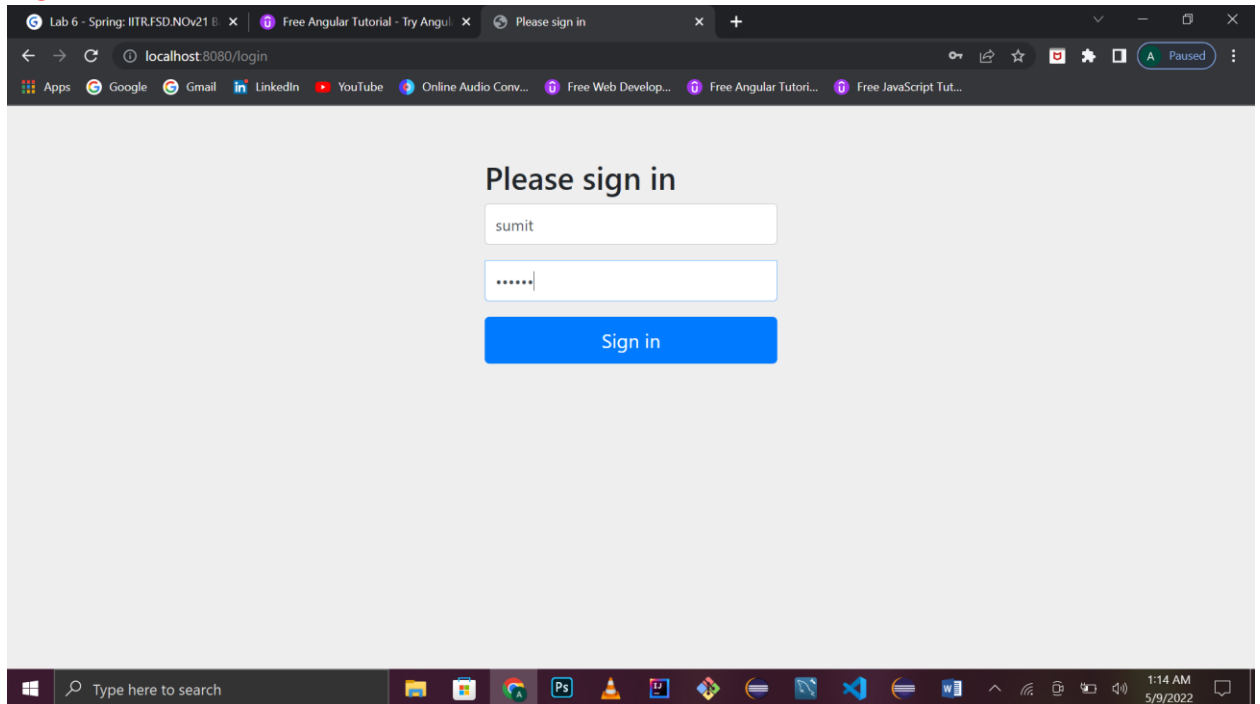
```
2022-05-09 00:58:09.733 INFO 31748 --- [ restartedMain] s.s.r.StudentRecordManagementApplication : Starting StudentRecordManagementApplication using Java 16.0.2 on SP
2022-05-09 00:58:09.740 INFO 31748 --- [ restartedMain] s.s.r.StudentRecordManagementApplication : No active profile set, falling back to 1 default profile: "default"
2022-05-09 00:58:10.048 INFO 31748 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-property
2022-05-09 00:58:10.049 INFO 31748 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'logging.le
2022-05-09 00:58:13.953 INFO 31748 --- [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2022-05-09 00:58:14.332 INFO 31748 --- [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 328 ms. Found 3 JPA rep
2022-05-09 00:58:18.579 INFO 31748 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-05-09 00:58:18.644 INFO 31748 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-05-09 00:58:18.645 INFO 31748 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.62]
2022-05-09 00:58:20.342 INFO 31748 --- [ restartedMain] org.apache.jasper.servlet.TldScanner : At least one JAR was scanned for TLDs yet contained no TLDs. Enable
2022-05-09 00:58:20.404 INFO 31748 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-05-09 00:58:20.405 INFO 31748 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 10353 ms
2022-05-09 00:58:20.606 INFO 31748 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2022-05-09 00:58:22.526 INFO 31748 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2022-05-09 00:58:22.586 INFO 31748 --- [ restartedMain] o.s.b.a.h2.H2ConsoleAutoConfiguration : H2 console available at '/h2-console'. Database available at 'jdbc:
2022-05-09 00:58:23.513 INFO 31748 --- [ restartedMain] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2022-05-09 00:58:23.848 INFO 31748 --- [ restartedMain] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.8.Final
2022-05-09 00:58:24.799 INFO 31748 --- [ restartedMain] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2022-05-09 00:58:25.461 INFO 31748 --- [ restartedMain] org.hibernate.dialect.Dialect : HHH000490: Using dialect: org.hibernate.dialect.MySQL5InnoDBDialect
2022-05-09 00:58:29.159 INFO 31748 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.
2022-05-09 00:58:29.204 INFO 31748 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2022-05-09 00:58:29.444 WARN 31748 --- [ restartedMain] jpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database
2022-05-09 00:58:33.595 INFO 31748 --- [ restartedMain] o.s.s.web.DefaultSecurityFilterChain : Will secure any request with [org.springframework.security.web.cont
2022-05-09 00:58:34.366 INFO 31748 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2022-05-09 00:58:34.574 INFO 31748 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-05-09 00:58:34.627 INFO 31748 --- [ restartedMain] s.s.r.StudentRecordManagementApplication : Started StudentRecordManagementApplication in 27.09 seconds (JVM ru
```

## On Very First URL ACCESS – Login Credential Required

There are 2 Users :

- 1.) “sumit” with ADMIN Role and ,
- 2.) ajay with USER Role

## 1. Login with sumit as –ADMIN













## Display all Student List

localhost:8080/list

Log out

### STUDENT REGISTRATION APPLICATION

ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	 
2	Muri	B.Arch	Canada	 
3	Daniel	B.Tech	New Zealand	 
4	Tanya	B.Com	USA	 
12	SK Sharma	Management	USA	 

New Student

Type here to search

1:04 AM 5/9/2022

## Adding New Student record

Lab 6 - Spring: IITR.FSD.NOV21 | Free Angular Tutorial - Try Angul | localhost:8080/addStudent

localhost:8080/addStudent

### FILL STUDENT'S DETAILS

Student Name  
Sushil Vats

Department  
MBA

Country  
India

[Back](#) [Add](#)

Type here to search

1:07 AM 5/9/2022

Lab 6 - Spring: IITR.FSD.NOV21 | Free Angular Tutorial - Try Angul | localhost:8080/list

localhost:8080/list

[Log out](#)

### STUDENT REGISTRATION APPLICATION

ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	<a href="#">Edit</a> <a href="#">Delete</a>
2	Muri	B.Arch	Canada	<a href="#">Edit</a> <a href="#">Delete</a>
3	Daniel	B.Tech	New Zealand	<a href="#">Edit</a> <a href="#">Delete</a>
4	Tanya	B.Com	USA	<a href="#">Edit</a> <a href="#">Delete</a>
12	SK Sharma	Management	USA	<a href="#">Edit</a> <a href="#">Delete</a>
16	Sushil Vats	MBA	India	<a href="#">Edit</a> <a href="#">Delete</a>

[New Student](#)

Type here to search

1:07 AM 5/9/2022

## Update an Existing Record

Lab 6 - Spring: IITR.FSD.NOV21 | Free Angular Tutorial - Try Angul | localhost:8080/update?studentId=12

### Update Student Details

Student Name

Department

Country

[Back](#) [Update](#)

Type here to search

1:09 AM 5/9/2022

Lab 6 - Spring: IITR.FSD.NOV21 | Free Angular Tutorial - Try Angul | localhost:8080/list

[Log out](#)

### STUDENT REGISTRATION APPLICATION

ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	<a href="#">Edit</a> <a href="#">Delete</a>
2	Muri	B.Arch	Canada	<a href="#">Edit</a> <a href="#">Delete</a>
3	Daniel	B.Tech	New Zealand	<a href="#">Edit</a> <a href="#">Delete</a>
4	Tanya	B.Com	USA	<a href="#">Edit</a> <a href="#">Delete</a>
12	Sumit Sharma	Management	USA	<a href="#">Edit</a> <a href="#">Delete</a>
16	Sushil Vats	MBA	India	<a href="#">Edit</a> <a href="#">Delete</a>













[New Student](#)

Type here to search

1:09 AM 5/9/2022

## Delete an Existing Record

The screenshot shows a web browser window with the URL `localhost:8080/list`. A modal dialog box is displayed in the center, titled "localhost:8080 says", with the message "Are you Sure you want to delete this Student?". The dialog has "OK" and "Cancel" buttons. A red circle highlights the dialog box. In the background, the "STUDENT REGISTRATION APPLICATION" is visible, featuring a table with student records and a "Log out" button in the top right corner.











ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	 
2	Muri	B.Arch	Canada	 
3	Daniel	B.Tech	New Zealand	 
4	Tanya	B.Com	USA	 
12	Sumit Sharma	Management	USA	 
16	Sushil Vats	MBA	India	 

[New Student](#)

[Log out](#)

## Record Delete

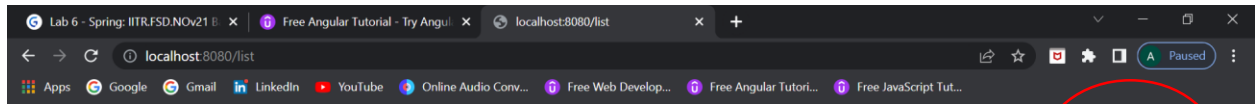
The screenshot shows the same web application after a record has been deleted. The table now contains five records. The "Log out" button remains in the top right corner. The "STUDENT REGISTRATION APPLICATION" title is still present.

ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	 
2	Muri	B.Arch	Canada	 
3	Daniel	B.Tech	New Zealand	 
4	Tanya	B.Com	USA	 
12	Sumit Sharma	Management	USA	 











[New Student](#)

[Log out](#)

## LOGOUT – BUTTON to SWITCH USER



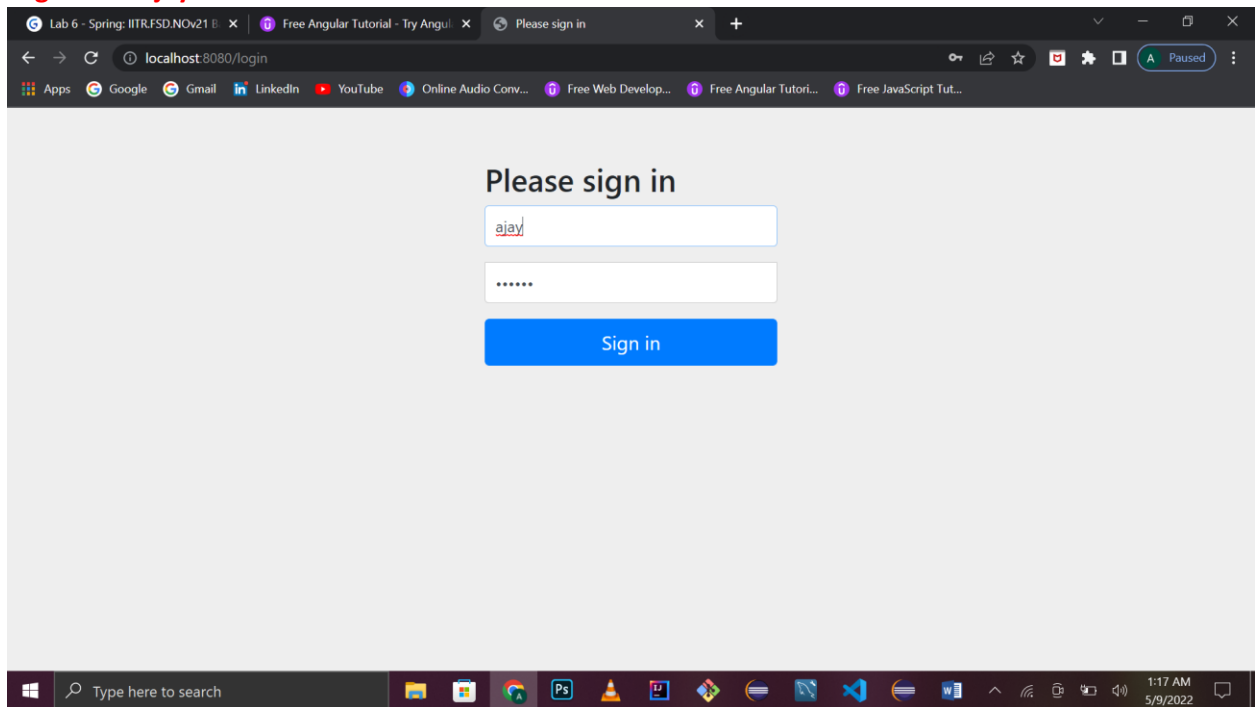
## STUDENT REGISTRATION APPLICATION

ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	 
2	Muri	B.Arch	Canada	 
3	Daniel	B.Tech	New Zealand	 
4	Tanya	B.Com	USA	 
12	Sumit Sharma	Management	USA	 

New Student

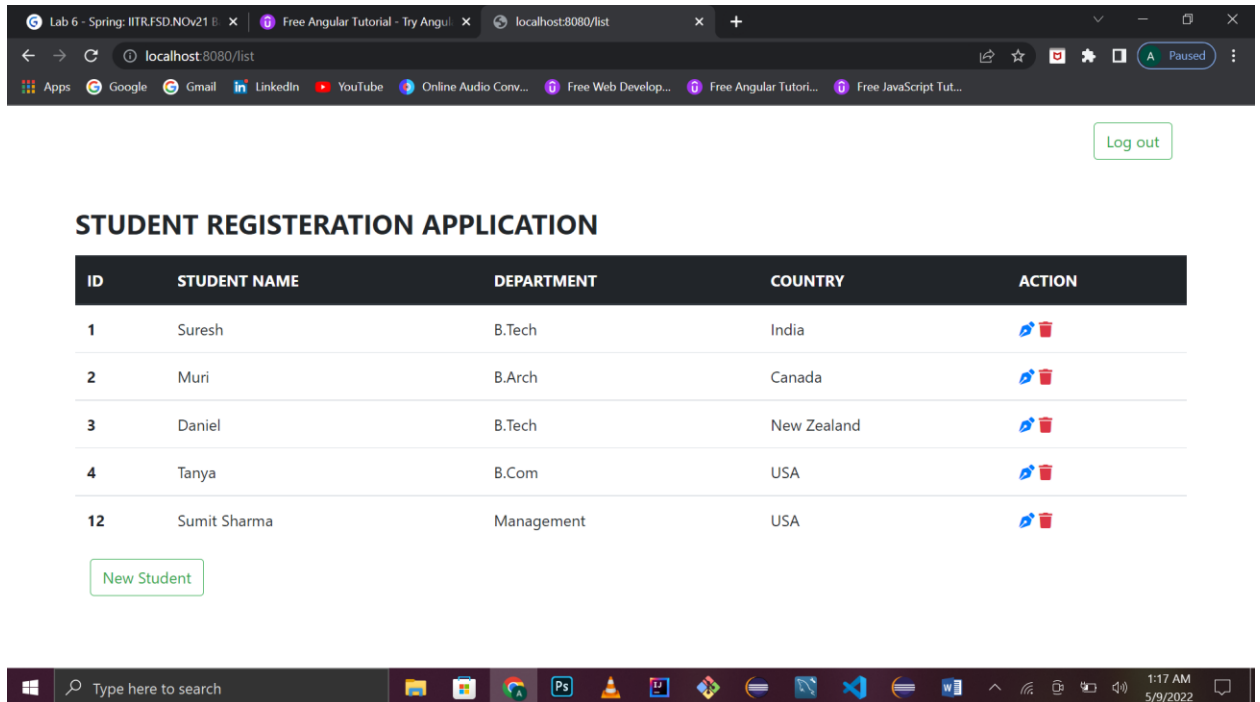


## 2. Login with ajay- as USER



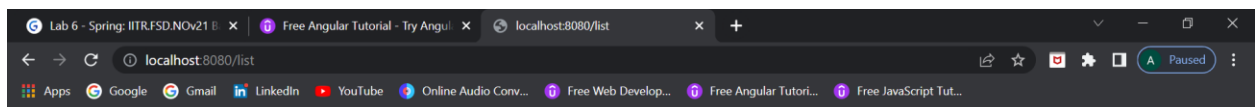
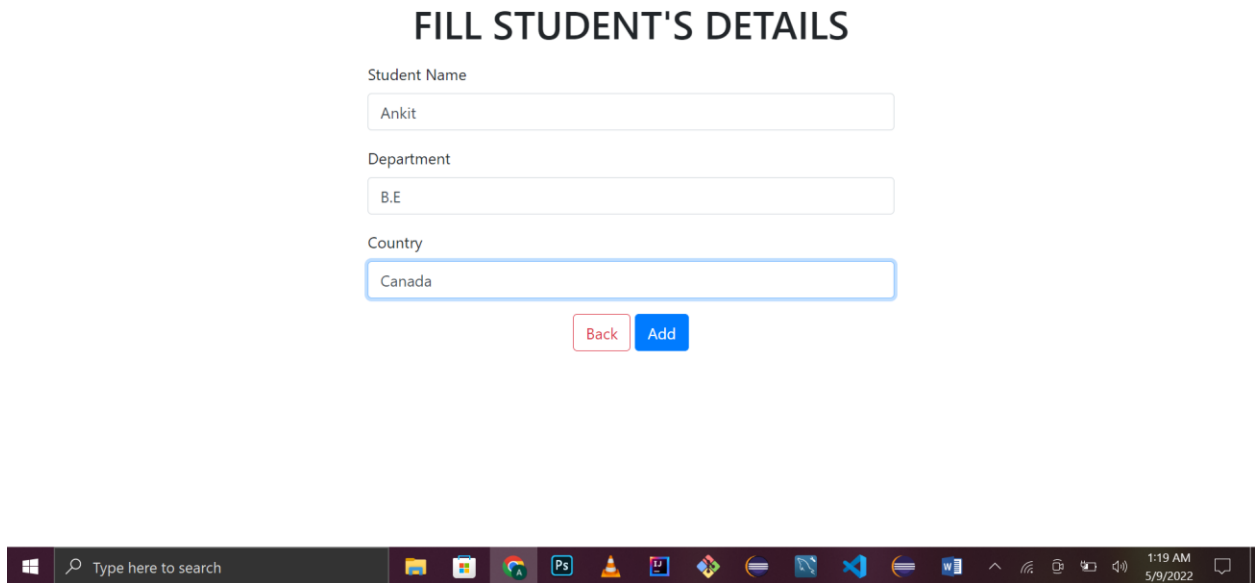
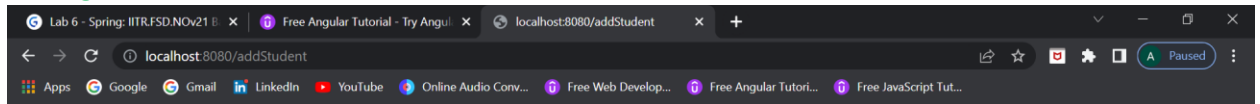
## Display all Student List

Localhost:8080/list

















## Adding New Student record



Log out

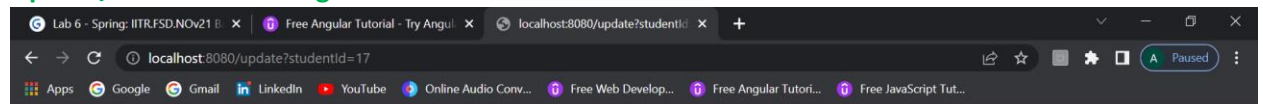
## STUDENT REGISTRATION APPLICATION

ID	STUDENT NAME	DEPARTMENT	COUNTRY	ACTION
1	Suresh	B.Tech	India	 
2	Muri	B.Arch	Canada	 
3	Daniel	B.Tech	New Zealand	 
4	Tanya	B.Com	USA	 
12	Sumit Sharma	Management	USA	 
17	Ankit	B.E	Canada	 

New Student



## Update/Delete an Existing Record – RIGHTS NOT ASSIGN TO USER



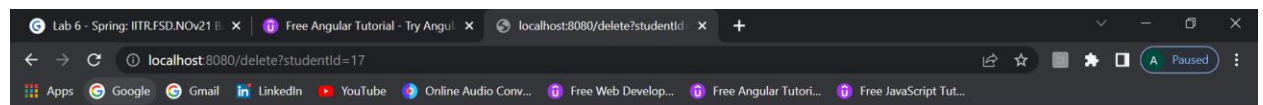
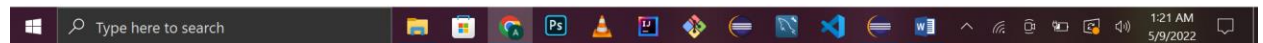
### Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Mon May 09 01:21:28 IST 2022

There was an unexpected error (type=Forbidden, status=403).

Forbidden



### Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Mon May 09 01:22:12 IST 2022

There was an unexpected error (type=Forbidden, status=403).

Forbidden



## PROJECT STRUCTURE

