

Deployment Manual

Team No: Team-4

Project Name: Student Management System

Team Members:

1. Paveisha Shanthapriya
2. Muzni Munas
3. Kaveesha Dassanayake
4. Tharupathi Vihasa
5. Hiruni Jayawardena

GitHub Details

GitHub Link:

<https://github.com/Paveisha/HCL-Final-Project>

Passwords Used:

1. Application Default Login Credentials:

- Username: admin
- Password: admin123

2. Port Numbers used in the Application:

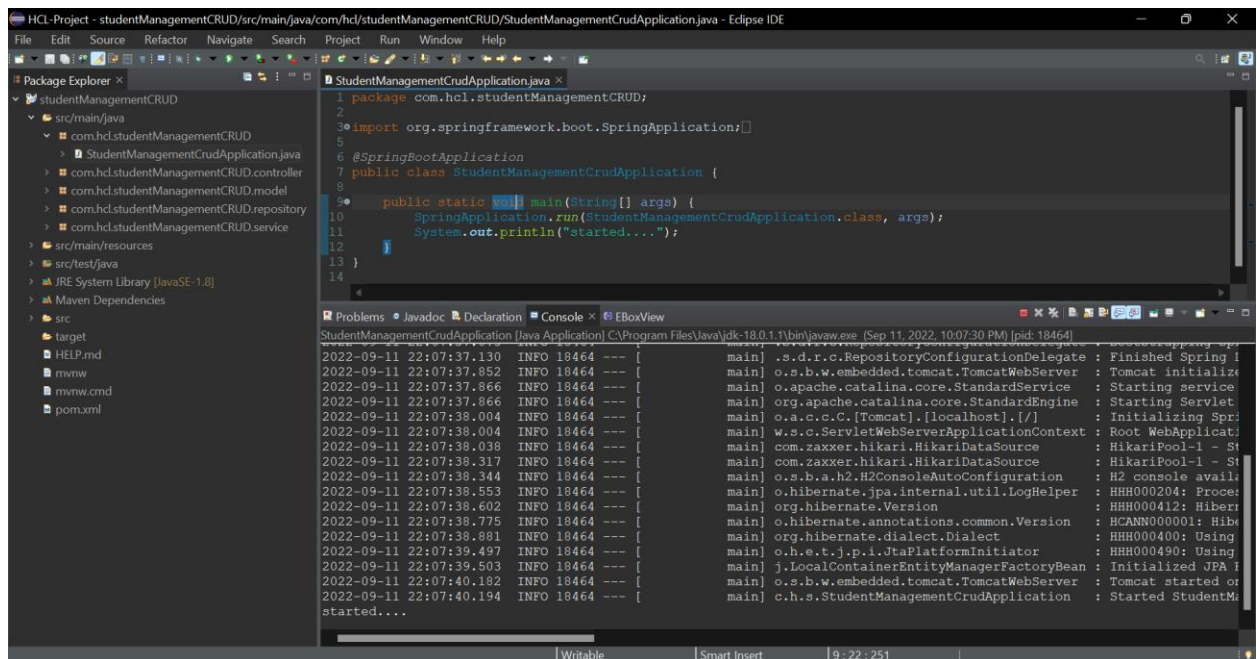
- Spring Boot Application Tomcat Server Port Number: 8080
- Angular Application Port Number: 4200

3. Angular Application Main Application Run Link

- Link: <http://localhost:4200/>

Steps to Run the Application

1. First, ensure that the following prerequisites are met.
 - The system needs to have JDK 1.8, Eclipse IDE for java developers, Node.js, and Angular CLI installed.
2. Next, download the project from git hub using the link below and extract it.
<https://github.com/Paveisha/HCL-Final-Project>
3. Once you have downloaded the project, extract it.
4. To run the Spring Boot Application, launch Eclipse IDE and select 'Import' from 'File'. In the displayed 'Import' dialog, expand the 'General' folder. Select 'Projects from Folder or Archive' and click 'Next'.
5. This will display the 'Import Projects from File System or Archive' dialog box. Choose 'directory' option and navigate to the folder of the extracted folder Team-4-Student-Management-System > Project-Source-Code > Back-End-Spring-Boot > studentManagementCRUD. Select the folder 'studentManagementCRUD' and click 'Open'. In the 'Import Projects from File System or Archive' dialog, ensure that browsed path is displayed. Click 'Finish'.
6. To run the application, run 'StudentManagementCrudApplication.java' as seen in the below image.



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure, including the 'src/main/java' directory. The main editor shows the 'StudentManagementCrudApplication.java' file, which contains the following code:

```
1 package com.hcl.studentManagementCRUD;
2
3 import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
6 public class StudentManagementCrudApplication {
7
8     public static void main(String[] args) {
9         SpringApplication.run(StudentManagementCrudApplication.class, args);
10        System.out.println("started....");
11    }
12 }
13
14
```

The Console view at the bottom shows the output of the application, indicating that it has started successfully. The output includes the following lines:

```
2022-09-11 22:07:37.130 INFO 18464 --- [main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring I
2022-09-11 22:07:37.852 INFO 18464 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initializ
2022-09-11 22:07:37.866 INFO 18464 --- [main] o.apache.catalina.core.StandardService : Starting service
2022-09-11 22:07:37.866 INFO 18464 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet
2022-09-11 22:07:38.004 INFO 18464 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spr
2022-09-11 22:07:38.004 INFO 18464 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicat
2022-09-11 22:07:38.038 INFO 18464 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - St
2022-09-11 22:07:39.317 INFO 18464 --- [main] o.s.b.w.h2.H2ConsoleAutoConfiguration : H2 console avail
2022-09-11 22:07:39.344 INFO 18464 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Proce
2022-09-11 22:07:39.553 INFO 18464 --- [main] org.hibernate.Version : HHH000041: Hib
2022-09-11 22:07:39.553 INFO 18464 --- [main] o.hibernate.annotations.common.Version : HCANN000001: Hib
2022-09-11 22:07:39.553 INFO 18464 --- [main] org.hibernate.dialect.Dialect : HHH000400: Using
2022-09-11 22:07:39.497 INFO 18464 --- [main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using
2022-09-11 22:07:39.503 INFO 18464 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA
2022-09-11 22:07:40.182 INFO 18464 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started or
2022-09-11 22:07:40.194 INFO 18464 --- [main] c.h.s.StudentManagementCrudApplication : Started StudentM
started....
```

7. To run the Angular project, open command prompt and change directory to the project root folder 'Front-End-Angular'.
8. To install node modules, run the command 'npm install'.
9. To compile and run the Angular app, type 'ng serve' and hit enter.
10. Then to access the application, open the browser and enter the URL: <http://localhost:4200/>

```
ng serve
Microsoft Windows [Version 10.0.22000.856]
(c) Microsoft Corporation. All rights reserved.

C:\Users\itspa>cd "C:\Users\itspa\Downloads\Front-End-Angular\Front-End-Angular"

C:\Users\itspa\Downloads\Front-End-Angular\Front-End-Angular>npm install
npm WARN config global '--global', '--local' are deprecated. Use '--location=global' instead.

added 927 packages, and audited 928 packages in 31s

123 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

C:\Users\itspa\Downloads\Front-End-Angular\Front-End-Angular>ng serve
✓ Browser application bundle generation complete.

Initial Chunk Files | Names | Raw Size
vendor.js           | vendor | 2.47 MB
styles.css, styles.js | styles | 403.26 kB
polyfills.js        | polyfills | 319.85 kB
scripts.js          | scripts | 146.63 kB
main.js             | main | 45.44 kB
runtime.js          | runtime | 6.95 kB

Initial Total | 3.37 MB

Build at: 2022-09-11T18:01:33.998Z - Hash: d7284a40dc75ae70 - Time: 18938ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✓ Compiled successfully.
```

Project Testing / Access

1. To access the application, open the browser and enter the URL: <http://localhost:4200/>
2. Enter the default Username and password credentials provided above to login into the Student Management System.
3. Once you successfully log into the application, you can access the following application functionalities:
 - Add student
 - Retrieve Student
 - Update Student
 - Delete Student
 - Log out from system