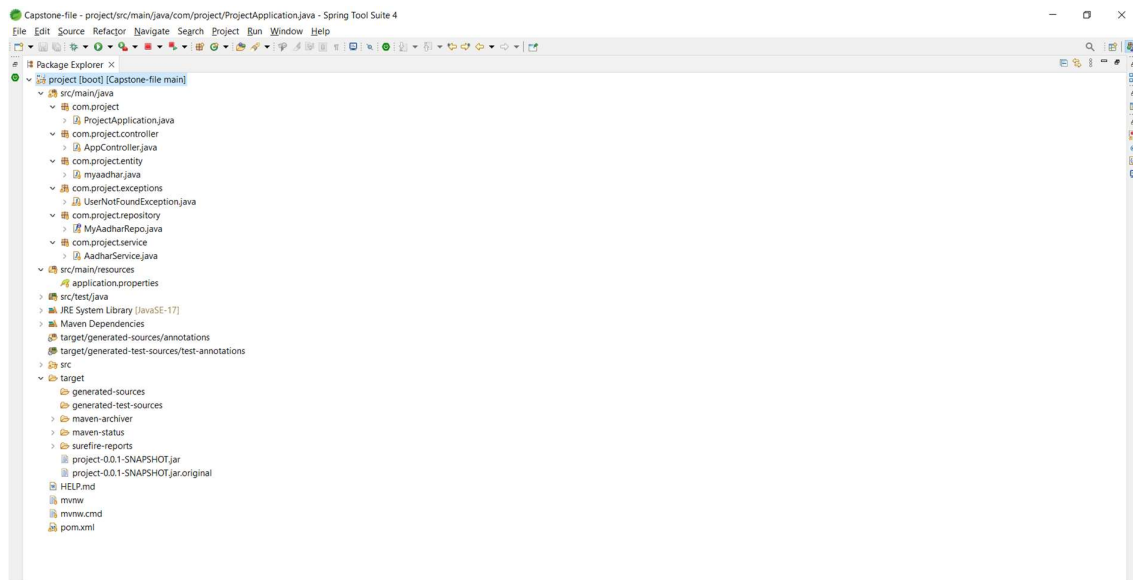


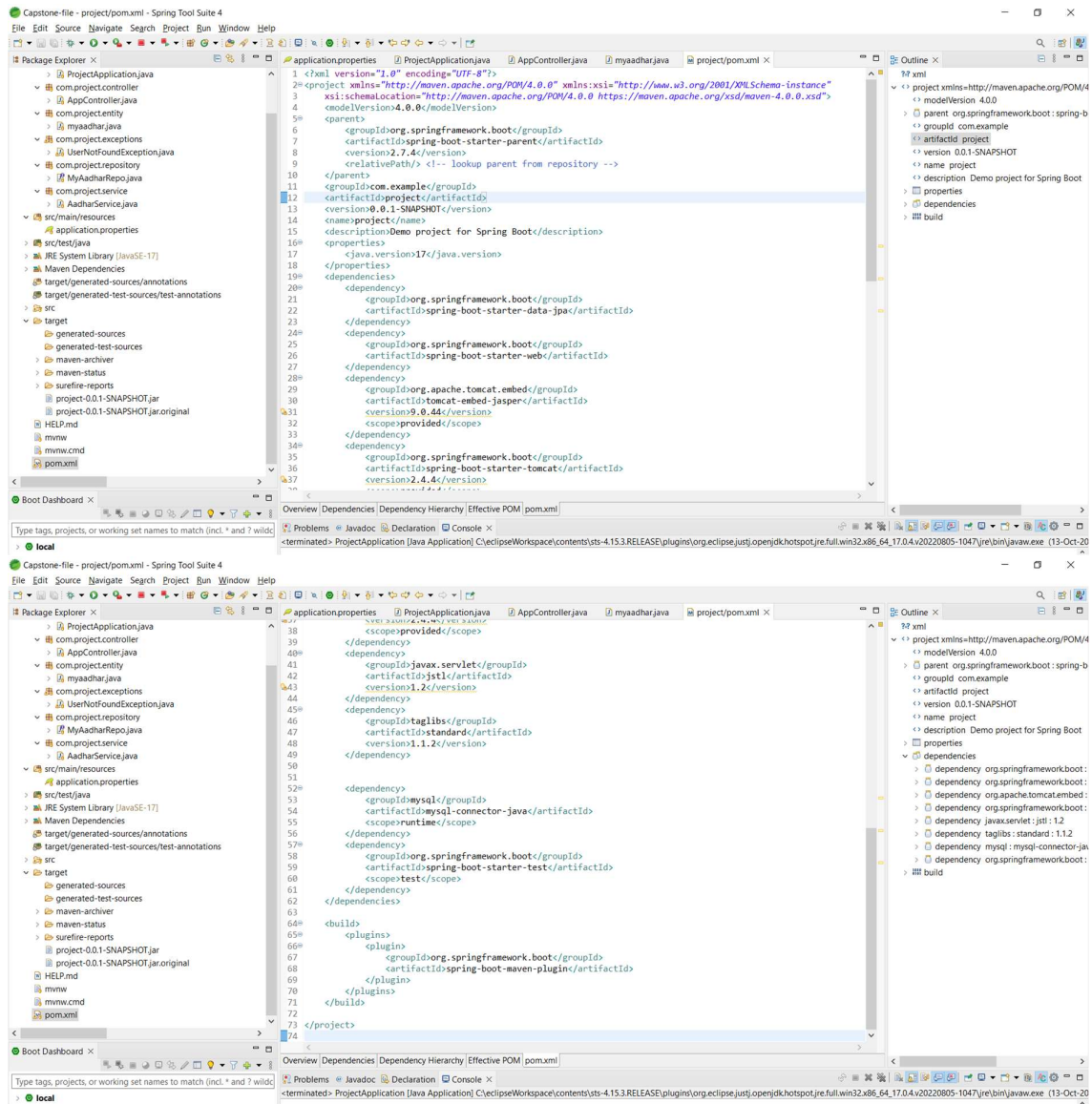
Capstone Project - mAadhar Application.

- Spring Boot Application- STS(AADHAR app)

Project Structure:



○ Pom.xml



Capstone-file - project/pom.xml - Spring Tool Suite 4

File Edit Source Navigate Search Project Run Window Help

Package Explorer

- ProjectApplication.java
- com.project.controller
- com.project.entity
- com.project.exceptions
- com.project.repository
- com.project.service
- AadharService.java
- src/main/resources
- application.properties
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- target/generated-sources/annotations
- target/generated-test-sources/test-annotations
- src
- target
- generated-sources
- generated-test-sources
- maven-archiver
- maven-status
- surefire-reports
- project-0.0.1-SNAPSHOT.jar
- project-0.0.1-SNAPSHOT.jar.original
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml

application.properties

ProjectApplication.java

AppController.java

myaadhar.java

project/pom.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <parent>
6     <groupId>org.springframework.boot</groupId>
7     <artifactId>spring-boot-starter-parent</artifactId>
8     <version>2.7.4</version>
9     <relativePath/> <!-- lookup parent from repository -->
10  </parent>
11  <groupId>com.example</groupId>
12  <artifactId>project</artifactId>
13  <version>0.0.1-SNAPSHOT</version>
14  <name>project</name>
15  <description>Demo project for Spring Boot</description>
16  <properties>
17    <java.version>17</java.version>
18  </properties>
19  <dependencies>
20    <dependency>
21      <groupId>org.springframework.boot</groupId>
22      <artifactId>spring-boot-starter-data-jpa</artifactId>
23    </dependency>
24    <dependency>
25      <groupId>org.springframework.boot</groupId>
26      <artifactId>spring-boot-starter-web</artifactId>
27    </dependency>
28    <dependency>
29      <groupId>org.apache.tomcat.embed</groupId>
30      <artifactId>tomcat-embed-jasper</artifactId>
31      <version>9.0.44</version>
32      <scope>provided</scope>
33    </dependency>
34    <dependency>
35      <groupId>org.springframework.boot</groupId>
36      <artifactId>spring-boot-starter-tomcat</artifactId>
37      <version>2.4.4</version>
38    </dependency>
39  </dependencies>
40  <scope>provided</scope>
41  <dependency>
42    <groupId>javax.servlet</groupId>
43    <artifactId>jstl</artifactId>
44    <version>1.2</version>
45  </dependency>
46  <dependency>
47    <groupId>taglibs</groupId>
48    <artifactId>standard</artifactId>
49    <version>1.1.2</version>
50  </dependency>
51  <dependency>
52    <groupId>mysql</groupId>
53    <artifactId>mysql-connector-java</artifactId>
54    <scope>runtime</scope>
55  </dependency>
56  <dependency>
57    <groupId>org.springframework.boot</groupId>
58    <artifactId>spring-boot-starter-test</artifactId>
59    <scope>test</scope>
60  </dependency>
61 </dependencies>
62 <build>
63  <plugins>
64    <plugin>
65      <groupId>org.springframework.boot</groupId>
66      <artifactId>spring-boot-maven-plugin</artifactId>
67    </plugin>
68  </plugins>
69 </build>
70 </project>
```

Outline

- project xmlns="http://maven.apache.org/POM/4.0.0"
 <modelVersion>4.0.0
 <parent> org.springframework.boot: spring-b
 <groupId> com.example
 <artifactId> project
 <version> 0.0.1-SNAPSHOT
 <name> project
 <description> Demo project for Spring Boot
 <properties>
 <dependencies>
 <build>

Boot Dashboard

Overview Dependencies Dependency Hierarchy Effective POM pom.xml

Type tags, projects, or working set names to match (incl. * and ? wildc

Problems Javadoc Declaration Console

terminated ProjectApplication [Java Application] C:\eclipse\workspace\contents\sts-4.15.3.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220805-1047\jre\bin\java.exe (13-Oct-20

local

- Java code

The top screenshot shows the Eclipse IDE with the Spring Tool Suite 4. The Package Explorer on the left shows the project structure. The main editor displays the `ProjectApplication.java` file, which is a Spring Boot application. The code is as follows:

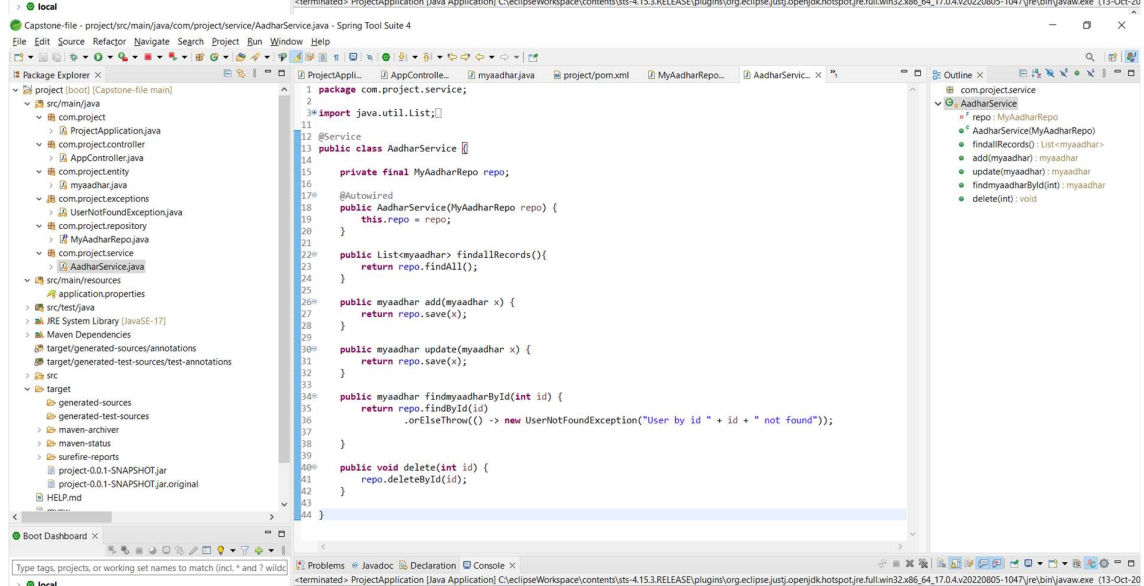
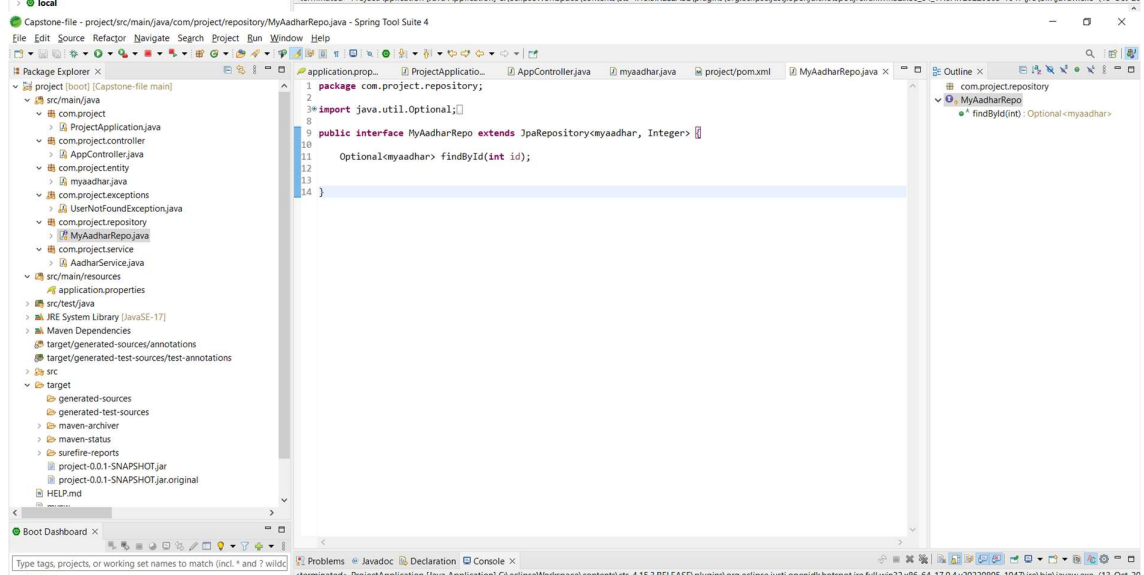
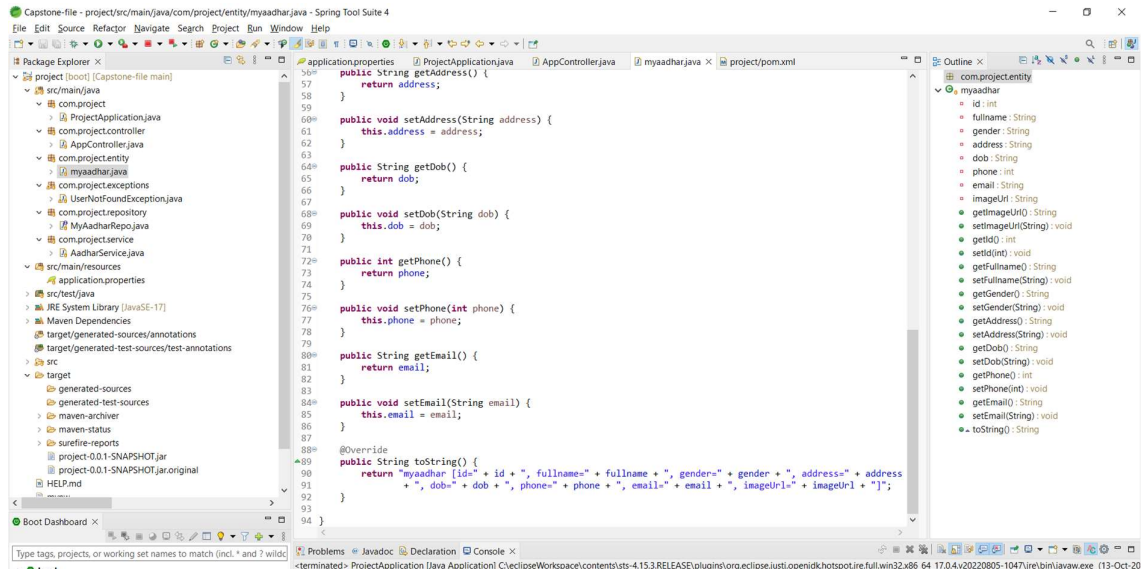
```
1 package com.project;
2
3 import org.springframework.boot.SpringApplication;
4
5 @SpringBootApplication
6 public class ProjectApplication {
7
8     public static void main(String[] args) {
9         SpringApplication.run(ProjectApplication.class, args);
10    }
11 }
12
13
14
```

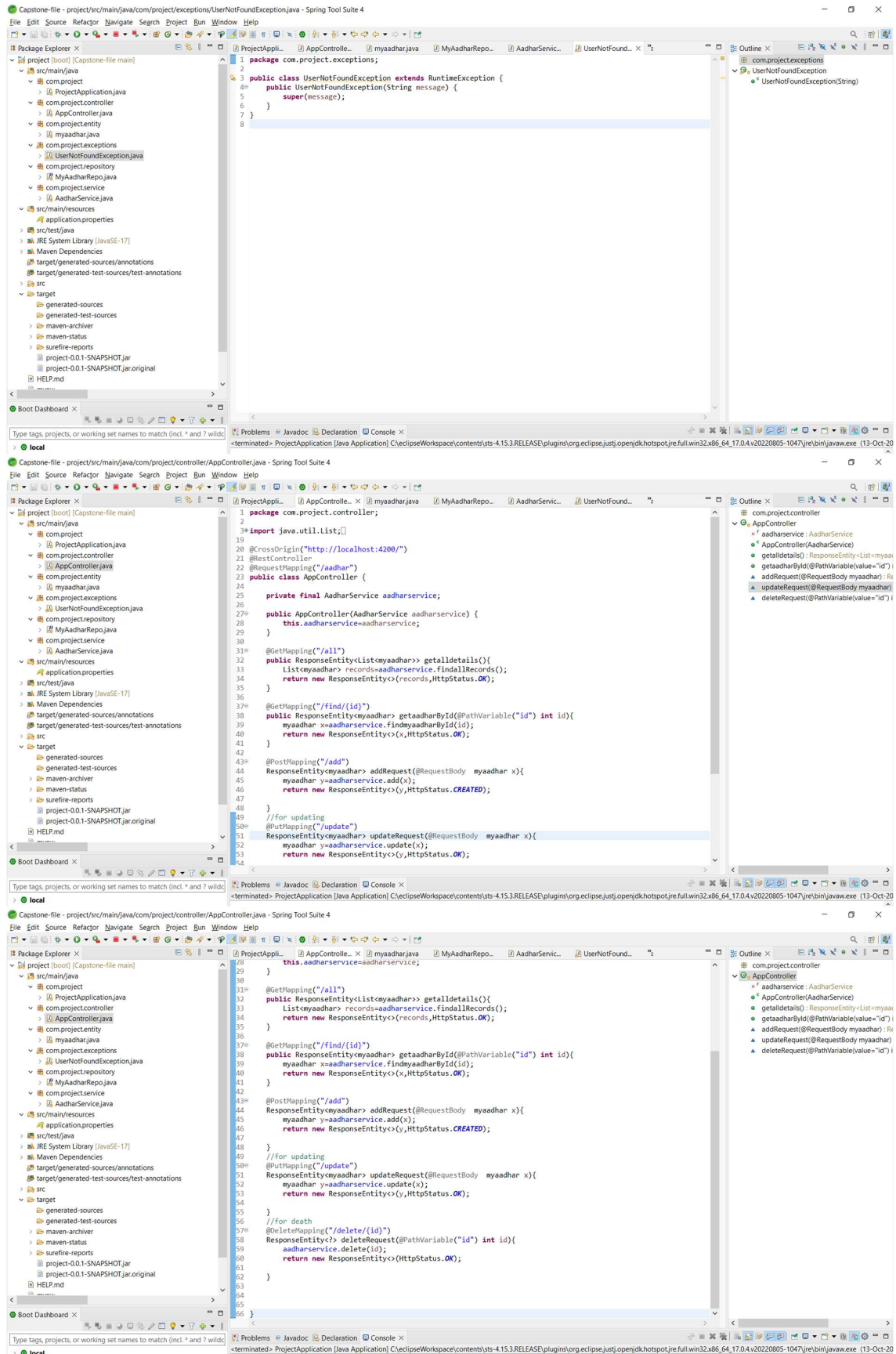
The bottom screenshot shows the Eclipse IDE with the Spring Tool Suite 4. The Package Explorer on the left shows the project structure. The main editor displays the `Myaadhhar.java` file, which is an entity class. The code is as follows:

```
1 package com.project.entity;
2
3 import javax.persistence.Entity;
4
5 @Entity
6 public class Myaadhhar {
7
8     @Id
9     @GeneratedValue(strategy = GenerationType.IDENTITY)
10    private int id;
11    private String fullname;
12    private String gender;
13    private String address;
14    private String dob;
15    private int phone;
16    private String email;
17    private String imageUrl;
18
19    public String getImageUrl() {
20        return imageUrl;
21    }
22
23    public void setImageUrl(String imageUrl) {
24        this.imageUrl = imageUrl;
25    }
26
27    public int getId() {
28        return id;
29    }
30
31    public void setId(int id) {
32        this.id = id;
33    }
34
35    public String getFullName() {
36        return fullname;
37    }
38 }
39
40
41
```

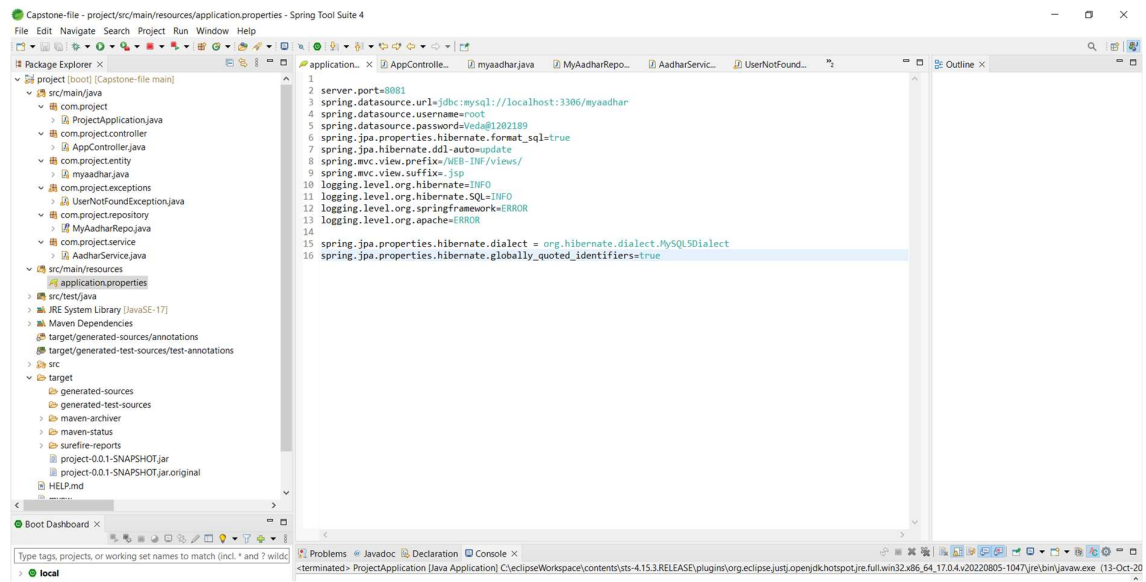
The bottom screenshot also shows the Outline view on the right, which lists the methods and fields of the `Myaadhhar` class:

- id : int
- fullname : String
- gender : String
- address : String
- dob : String
- phone : int
- email : String
- imageUrl : String
- getImageUrl() : String
- setImageUrl(String) : void
- getId() : int
- setId(int) : void
- getFullName() : String
- setFullName(String) : void
- getGender() : String
- setGender(String) : void
- setAddress(String) : void
- setDob(String) : void
- setDob(String) : void
- setPhone(int) : void
- getPhone(int) : void
- getEmail() : String
- setEmail(String) : void
- toString() : String

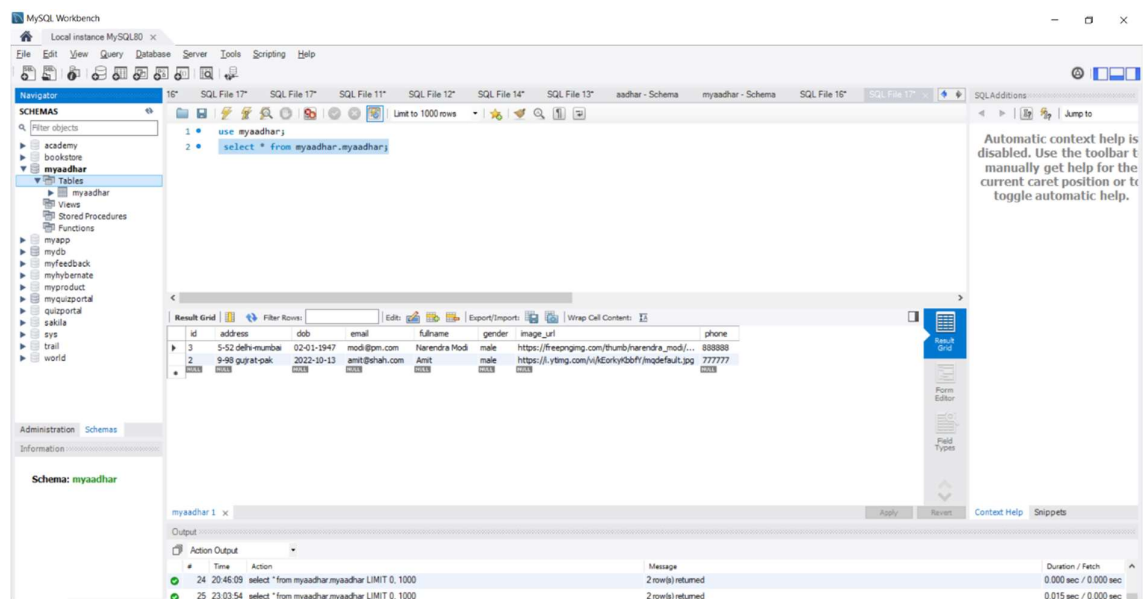




- Applications.properties



MySQL workbench:



● FRONT END -ANGULAR

- Create new app- > ng new myapp --no-strict
- Create new component -> ng g c home --skipTest=true
- Server-> ng serve

```
ngcc
Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\javademov\angulardemos

C:\javademov\angulardemos>ng new FrontEnd-Aadhar --no-strict
? Would you like to add Angular routing? No
? Which stylesheet format would you like to use? CSS
CREATE FrontEnd-Aadhar/angular.json (3086 bytes)
CREATE FrontEnd-Aadhar/package.json (1080 bytes)
CREATE FrontEnd-Aadhar/README.md (1060 bytes)
CREATE FrontEnd-Aadhar/tsconfig.json (538 bytes)
CREATE FrontEnd-Aadhar/.editorconfig (274 bytes)
CREATE FrontEnd-Aadhar/.gitignore (548 bytes)
CREATE FrontEnd-Aadhar/browserslistrc (600 bytes)
CREATE FrontEnd-Aadhar/karma.conf.js (1433 bytes)
CREATE FrontEnd-Aadhar/tsconfig.app.json (287 bytes)
CREATE FrontEnd-Aadhar/tsconfig.spec.json (333 bytes)
CREATE FrontEnd-Aadhar/.vscode/extensions.json (130 bytes)
CREATE FrontEnd-Aadhar/.vscode/launch.json (474 bytes)
CREATE FrontEnd-Aadhar/.vscode/tasks.json (938 bytes)
CREATE FrontEnd-Aadhar/src/favicon.ico (948 bytes)
CREATE FrontEnd-Aadhar/src/index.html (380 bytes)
CREATE FrontEnd-Aadhar/src/main.ts (372 bytes)
CREATE FrontEnd-Aadhar/src/polyfills.ts (2338 bytes)
CREATE FrontEnd-Aadhar/src/styles.css (80 bytes)
CREATE FrontEnd-Aadhar/src/test.ts (745 bytes)
CREATE FrontEnd-Aadhar/src/assets/.gitkeep (0 bytes)
CREATE FrontEnd-Aadhar/src/environments/environment.prod.ts (51 bytes)
CREATE FrontEnd-Aadhar/src/environments/environment.ts (658 bytes)
CREATE FrontEnd-Aadhar/src/app/app.module.ts (314 bytes)
CREATE FrontEnd-Aadhar/src/app/app.component.html (23332 bytes)
CREATE FrontEnd-Aadhar/src/app/app.component.spec.ts (983 bytes)
CREATE FrontEnd-Aadhar/src/app/app.component.ts (219 bytes)
CREATE FrontEnd-Aadhar/src/app/app.component.css (0 bytes)
? Packages installed successfully.
Warning: in the working copy of '.browserslistrc', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of '.editorconfig', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of '.gitignore', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of '.vscode/extensions.json', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of '.vscode/launch.json', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of '.vscode/tasks.json', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'README.md', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'angular.json', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'karma.conf.js', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'package-lock.json', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'package.json', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'src/app/app.component.html', it will be replaced by CRLF the next time Git touches it
Warning: in the working copy of 'src/app/app.component.spec.ts', it will be replaced by CRLF the next time Git touches it

C:\javademov\angulardemos>cd FrontEnd-Aadhar

C:\javademov\angulardemos\FrontEnd-Aadhar>ng g c home --skipTests=true
CREATE src/app/home/home.component.html (19 bytes)
CREATE src/app/home/home.component.ts (267 bytes)
CREATE src/app/home/home.component.css (0 bytes)
UPDATE src/app/app.module.ts (388 bytes)

C:\javademov\angulardemos\FrontEnd-Aadhar>ng g c admin --skipTests=true
CREATE src/app/admin/admin.component.html (20 bytes)
CREATE src/app/admin/admin.component.ts (271 bytes)
CREATE src/app/admin/admin.component.css (0 bytes)
UPDATE src/app/app.module.ts (936 bytes)

C:\javademov\angulardemos\FrontEnd-Aadhar>ng g c user --skipTests=true
CREATE src/app/user/user.component.html (19 bytes)
CREATE src/app/user/user.component.ts (267 bytes)
CREATE src/app/user/user.component.css (0 bytes)
UPDATE src/app/app.module.ts (1010 bytes)

C:\javademov\angulardemos\FrontEnd-Aadhar>ng g c myaadhar --skipTests=true
CREATE src/app/myaadhar/myaadhar.component.html (23 bytes)
CREATE src/app/myaadhar/myaadhar.component.ts (283 bytes)
CREATE src/app/myaadhar/myaadhar.component.css (0 bytes)
UPDATE src/app/app.module.ts (1100 bytes)

C:\javademov\angulardemos\FrontEnd-Aadhar>ng g c duplicateaadhar --skipTests=true
CREATE src/app/duplicateaadhar/duplicateaadhar.component.html (30 bytes)
CREATE src/app/duplicateaadhar/duplicateaadhar.component.ts (311 bytes)
CREATE src/app/duplicateaadhar/duplicateaadhar.component.css (0 bytes)
UPDATE src/app/app.module.ts (1218 bytes)

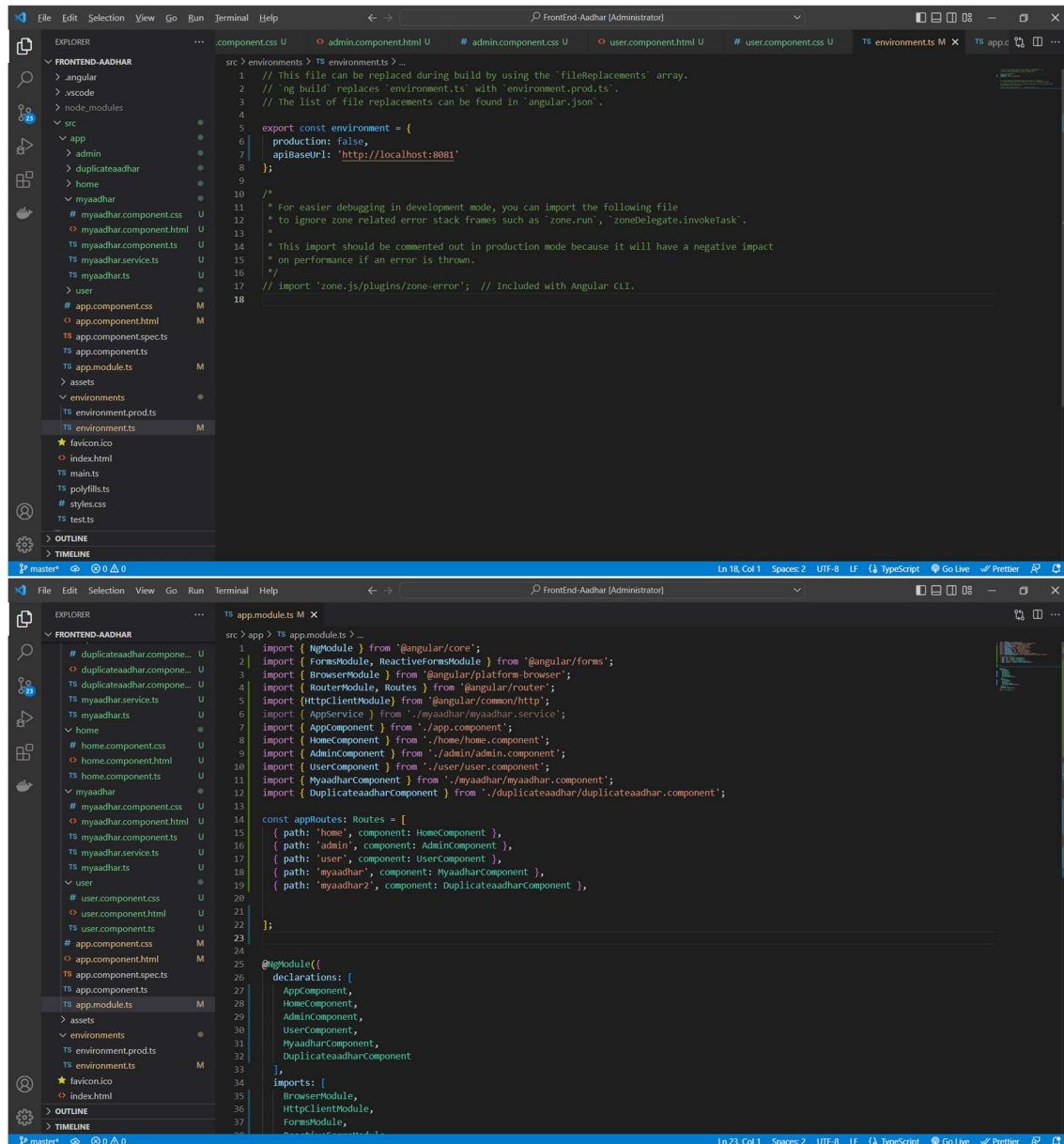
C:\javademov\angulardemos\FrontEnd-Aadhar>ng serve
? Browser application bundle generation complete.

Initial Chunk Files | Names | Raw Size
vendor.js           | vendor | 2.36 MB |
polyfills.js        | polyfills | 336.29 kB |
styles.css, styles.js | styles | 212.52 kB |
main.js             | main | 72.66 kB |
runtime.js          | runtime | 6.87 kB |
                    | Initial Total | 2.98 MB |

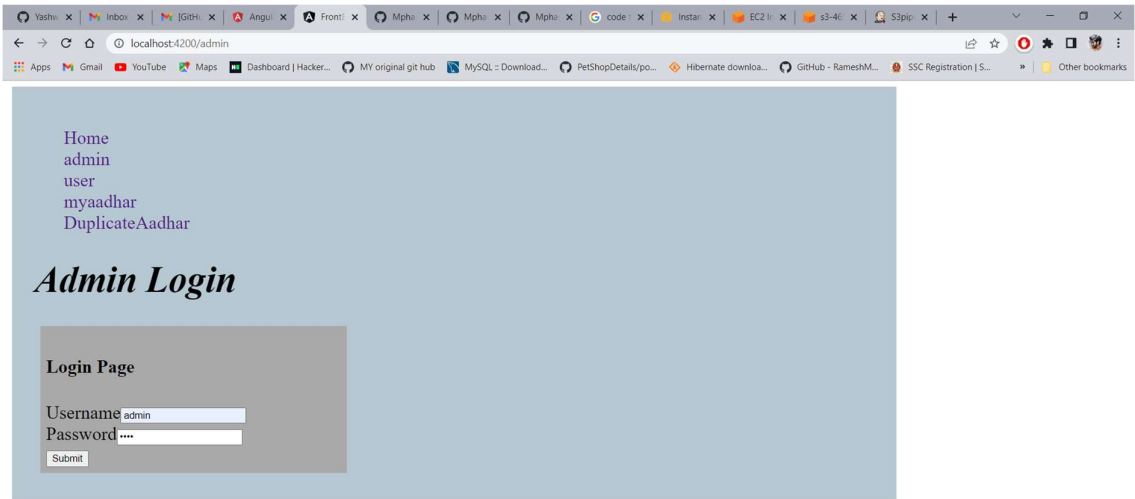
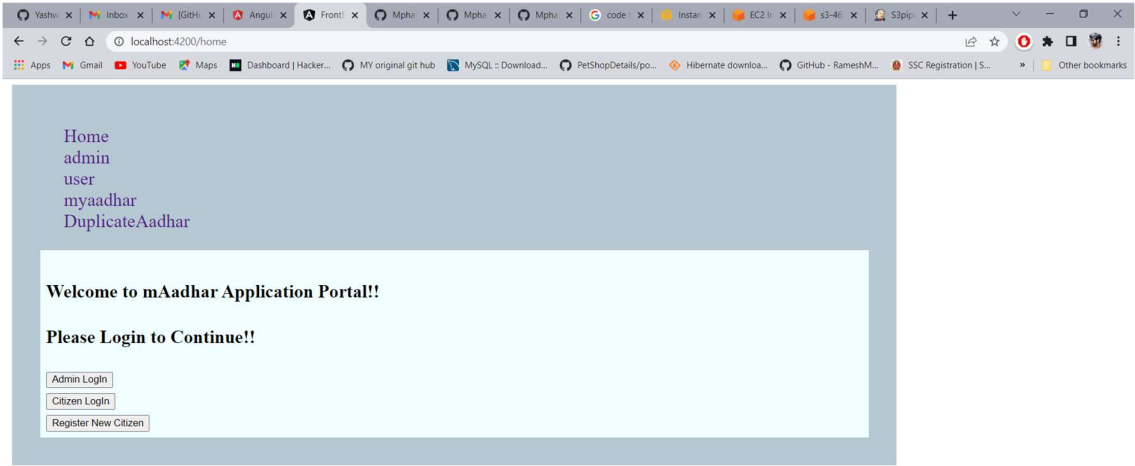
Build at: 2022-10-13T07:18:25.529Z - Hash: 5872c583c7a9c8ba - Time: 9064ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
```

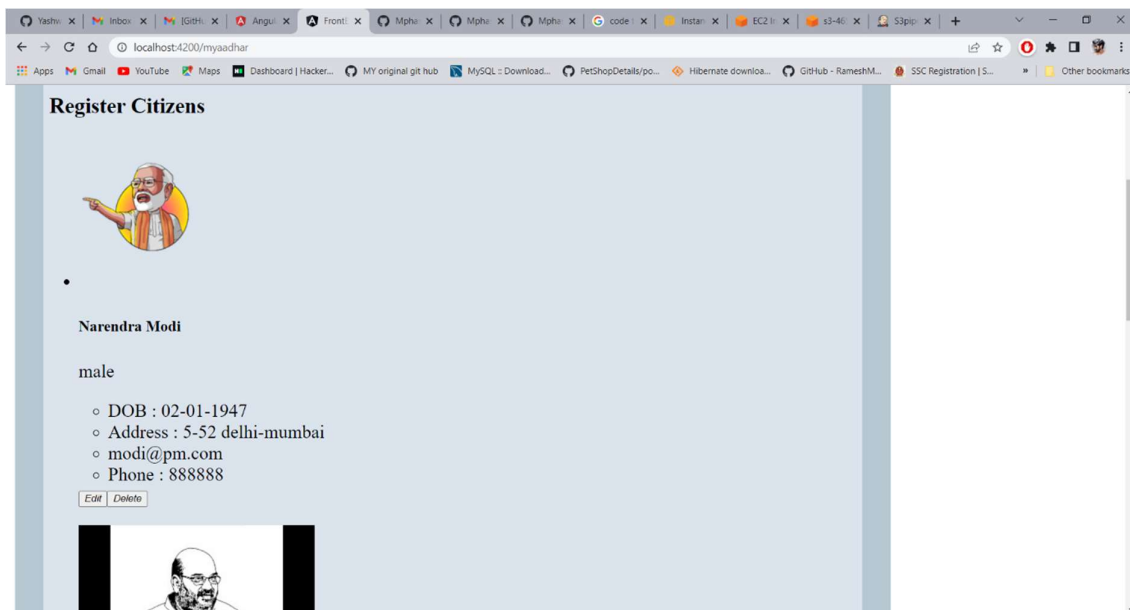
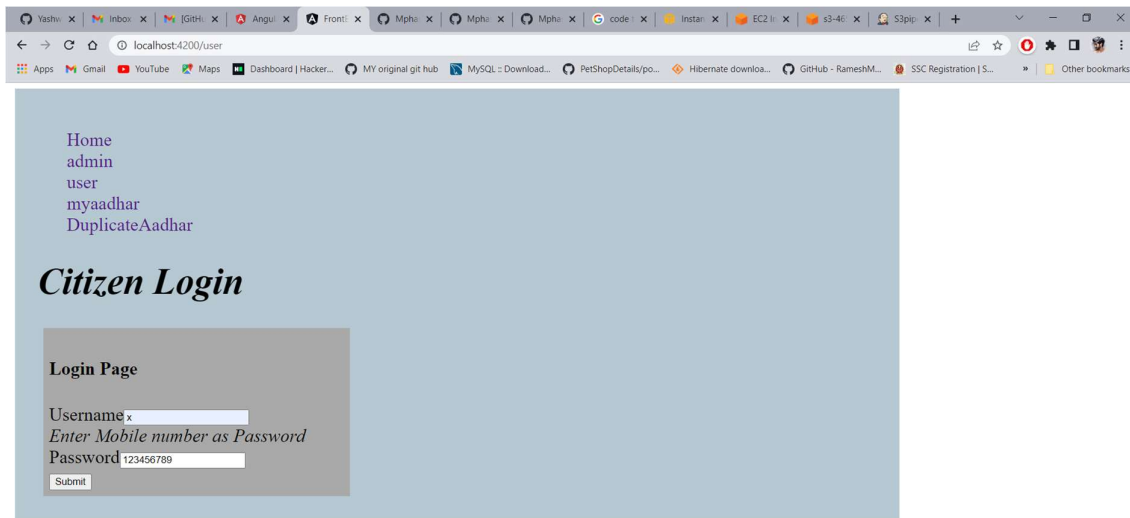
Angular Project:

(Only Few Screen Shots Are Added – Full Source code is added in another pdf)



OutPut:





Yashu X Inbox X [Gith X Angu X Front X Mphu X Mphu X Mphu X code X Instar X EC2 li X s3-46 X S3pic X +

localhost:4200/myaadhar


Home
admin
user
myaadhar
DuplicateAadhar

Admin Portal

AadharApplication_

Search Citizen

Register Citizens



•

Narendra Modi

Yashu X Inbox X [Gith X Angu X Front X Mphu X Mphu X Mphu X code X Instar X EC2 li X s3-46 X S3pic X +

localhost:4200/myaadhar

New Citizen Register

Name

D.O.B

Email Address

Home Address

Gender

Phone

Image URL

Edit Citizen

Name

Gender

Email Address

D.O.B

Home Address

Phone

Image URL

Yashu xInbox xMy | GitH xAngu xFront xMphu xMphu xMphu xcode xInsta xEC2 li xs3-46 xS3pi x+
localhost:4200/myaadhar2
Apps Gmail YouTube Maps Dashboard | Hacker... MY original git hub MySQL : Download... PetShopDetails/po... Hibernate downloa... GitHub - RameshM... SSC Registration | S... Other bookmarks

Home
admin
user
myaadhar
DuplicateAadhar


Citizen's Portal

AadharApplication_

- New Citizen Register (current)

Enter your Name_

Register Citizens



x

Name

Name

D.O.B

dd-mm-yyyy

Email Address

Email

Home Address

Address

Gender

Gender

Phone

Phone

Image URL

image URL

Close

Save changes

Edit Citizen Narendra Modi

x

Name

Narendra Modi

Gender

male

Email Address

modi@pm.com

D.O.B

dd-mm-yyyy

Home Address

5-52 delhi-mumbai

Phone

888888

Image URL

https://freepngimg.com/thur

Close

Save changes

CloseSave changes

Edit Citizen

×

Name

Name

Gender

Gender

Email Address

Email

D.O.B

dd-mm-yyyy

Home Address

Address

Phone

Phone

Image URL

Image URL

CloseSave changes

Delete Citizen

×

Are you sure you want to delete Narendra Modi?

NoYes

MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

16"SQL File 17"SQL File 17"SQL File 11"SQL File 12"SQL File 14"SQL File 13"aadhar - Schema

1 • use myaadhar;
2 • select * from myaadhar.myaadhar;

Result Grid

| | id | address | dob | email | fullname | gender | image_url | phone |
|---|----|-------------------|------------|--------------|---------------|--------|--|--------|
| ▶ | 3 | 5-52 delhi-mumbai | 02-01-1947 | modipm.com | Narendra Modi | male | https://freepressimg.com/thumb/narendra_modi/... | 888888 |
| ▶ | 2 | 9-98 gujarat-pak | 2022-10-13 | amt@shah.com | Amit | male | https://i.yimg.com/h/40rkykbbf/insdefault.jpg | 777777 |

myaadhar 2 x

Output

| # | Time | Action | Message | Duration / Fetch |
|----|----------|---|-------------------|-----------------------|
| 25 | 23:03:54 | select * from myaadhar.myaadhar LIMIT 0, 1000 | 2 row(s) returned | 0.015 sec / 0.000 sec |
| 26 | 23:27:33 | select * from myaadhar.myaadhar LIMIT 0, 1000 | 2 row(s) returned | 0.015 sec / 0.000 sec |

Testing: (In Eclipse)

The image displays two screenshots of the Eclipse IDE interface, illustrating the setup for testing a Maven project.

Top Screenshot: Shows the `pom.xml` file for the `AutomationTesting-m-aadhar` project. The configuration includes:

- Project name: `AutomationTesting-m-aadhar`
- Group ID: `org.apache.maven.plugins`
- Artifact ID: `AutomationTesting-m-aadhar`
- Version: `0.0.1-SNAPSHOT`
- Build directory: `src/sourceDirectory`
- Plugins: `maven-compiler-plugin` and `maven-surefire-plugin`
- Dependencies: `org.testng` (version 7.5), `org.seleniumhq.selenium` (version 4.1.2), and `selenium-java` (version 4.1.2)

Bottom Screenshot: Shows the `TestRegistration.java` file. The code defines a `TestRegistration` class with a `registration()` method. The method uses Selenium WebDriver to interact with a web application, performing actions like clicking buttons, sending keys, and waiting for elements. The code is annotated with `@Test` and `By.xpath` for element selection.

```
1 package com.testing;
2
3 import java.util.concurrent.TimeUnit;
4
5 public class TestRegistration {
6     WebDriver webDriver = null;
7     String URL = "http://localhost:4200/home";
8
9     // By full xpath testing(Relative Testing)
10
11     @Test
12     public void registration() {
13         System.setProperty("webdriver.chrome.driver", "C:\\chromedriver_win32\\chromedriver.exe");
14
15         WebDriver webDriver = new ChromeDriver();
16         webDriver.get(URL);
17         webDriver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
18         webDriver.manage().window().maximize();
19         webDriver.findElement(By.xpath("//button[normalize-space()='Register New Citizen']").click();
20         webDriver.findElement(By.xpath("//a[@class='nav-bar-nav mr-auto']/a[@class='nav-link']").click();
21         webDriver.findElement(By.xpath("//form[@class='ng-untouched ng-pristine ng-invalid']/input[@id='fullname']")).sendKeys("Testing NameMax");
22         webDriver.findElement(By.xpath("//input[@id='dob']")).sendKeys("02/01/2201");
23         webDriver.findElement(By.xpath("//input[@id='email']")).sendKeys("max@testing.com");
24         webDriver.findElement(By.xpath("//input[@id='address']")).sendKeys("1-12, dollars, uk");
25         webDriver.findElement(By.xpath("//input[@id='gender']")).sendKeys("Male");
26         webDriver.findElement(By.xpath("//input[@id='phone']")).sendKeys("123456777");
27         webDriver.findElement(By.xpath("//input[@id='imageurl']")).sendKeys("https://static.wctecy.com/system/resources/thumbnails/000/464/891/small/bussmani-15.jpg");
28         webDriver.findElement(By.xpath("//button[@type='submit']").click();
29         System.out.println("Registration Tested Successfully");
30     }
31 }
```

testingdemos - AutomationTesting-m aadhar/src/com/testing/TestRegistration.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Problems Declaration Console X Run Progress Results of running class TestRegistration

<terminated> TestRegistration [TestNG] [C:\Users\yashwath.p2\pool\plugins\org.eclipse.jdt.openjdk.hotspot.jre.full.win32.x86_64.17.0.3.v20220515-1416\jre\bin\javaw.exe (13-Oct-2022, 11:32:20 pm - 11:32:30 pm) [pid: 33144]

```
[RemoteTestNG] detected TestNG version 7.5.0
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d97250d62b29c2ae6a26a85-refs/branch-heads/51958{#853}) on port 50568
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1665684146.669][WARNING]: This version of ChromeDriver has not been tested with Chrome version 106.
Oct 13, 2022 11:32:27 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Oct 13, 2022 11:32:27 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 106, so returning the closest version found: a no-op implementation
Oct 13, 2022 11:32:27 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Unable to find CDP implementation matching 106.
Oct 13, 2022 11:32:27 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$3
WARNING: Unable to find version of CDP to use for . You may need to include a dependency on a specific version of the CDP using something similar to 'org.seleniumhq.selenium:selenium-devtools-v064.1.2' wh
Registration Tested Successfully
PASSED: registration

=====
Default test
Tests run: 1, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====
```


FrontEnd Aadhar

localhost:4200/myaadhar2

Chrome is being controlled by automated test software.

Phone : 777777

Edit Delete



Testing Name@max

Male

DOB : 2201-01-02

Address : 1-12,dollas,uk

max@ Testing.com

Phone : 123456777

Edit Delete

New Citizen Register