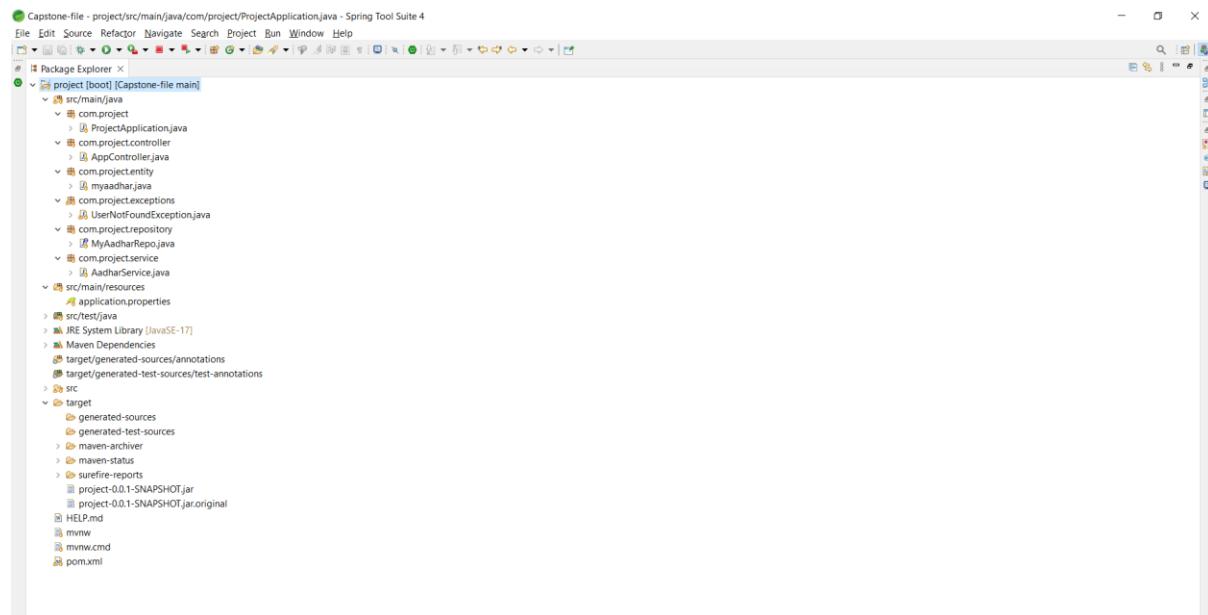


# Capstone Project - mAadhar Application.

- Spring Boot Application- STS(AADHAR app)

## Project Structure:



## ○ Pom.xml

**Pom.xml (Top)**

```

<?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>2.7.4</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.example</groupId>
  <artifactId>project</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>project</name>
  <description>Demo project for Spring Boot</description>
  <properties>
    <java.version>17</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>org.apache.tomcat.embed</groupId>
      <artifactId>tomcat-embed-jasper</artifactId>
      <version>9.0.44</version>
      <scope>provided</scope>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
      <version>2.4.4</version>
    </dependency>
  </dependencies>

```

**Pom.xml (Bottom)**

```

    <dependency>
      <groupId>javax.servlet</groupId>
      <artifactId>jstl</artifactId>
      <version>1.2</version>
    </dependency>
    <dependency>
      <groupId>taglibs</groupId>
      <artifactId>standard</artifactId>
      <version>1.1.2</version>
    </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>
  </dependencies>
  <build>
    <plugins>
      <plugin>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-maven-plugin</artifactId>
        <version>3.1.1</version>
      </plugin>
    </plugins>
  </build>
</project>

```

## ● Java code

**Project Application (Main Class)**

```

package com.project;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class ProjectApplication {

    public static void main(String[] args) {
        SpringApplication.run(ProjectApplication.class, args);
    }
}

```

**Entity Class (MyAadhar.java)**

```

package com.project.entity;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Column;
import java.util.Date;
import java.util.List;

@Entity
public class myaadhar {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;
    private String fullname;
    private String gender;
    private String address;
    private String dob;
    private int phone;
    private String email;
    private String imageUrl;

    public String getImageUrl() {
        return imageUrl;
    }

    public void setImageUrl(String imageUrl) {
        this.imageUrl = imageUrl;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getFullscreen() {
        return fullname;
    }
}

```

**Project Application Entity (myaadhar.java)**

```

public class MyAadhar {
    private int id;
    private String fullname;
    private String gender;
    private String address;
    private String dob;
    private int phone;
    private String email;
    private String imageUrl;

    public String getAddress() {
        return address;
    }

    public void setAddress(String address) {
        this.address = address;
    }

    public String getDob() {
        return dob;
    }

    public void setDob(String dob) {
        this.dob = dob;
    }

    public int getPhone() {
        return phone;
    }

    public void setPhone(int phone) {
        this.phone = phone;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    @Override
    public String toString() {
        return "MyAadhar [id=" + id + ", fullname=" + fullname + ", gender=" + gender + ", address=" + address +
               ", dob=" + dob + ", phone=" + phone + ", email=" + email + ", imageUrl=" + imageUrl + "]";
    }
}

```

**Repository Interface (MyAadharRepo.java)**

```

package com.project.repository;

import java.util.Optional;

public interface MyAadharRepo extends JpaRepository<MyAadhar, Integer> {
    Optional<MyAadhar> findById(int id);
}

```

**Service Implementation (AadharService.java)**

```

package com.project.service;

import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.project.repository.MyAadharRepo;
import com.project.entity.MyAadhar;

@Service
public class AadharService {
    private final MyAadharRepo repo;

    @Autowired
    public AadharService(MyAadharRepo repo) {
        this.repo = repo;
    }

    public List<MyAadhar> findAllRecords() {
        return repo.findAll();
    }

    public MyAadhar add(MyAadhar x) {
        return repo.save(x);
    }

    public MyAadhar update(MyAadhar x) {
        return repo.save(x);
    }

    public MyAadhar findMyAadharById(int id) {
        return repo.findById(id)
            .orElseThrow(() -> new UserNotFoundException("User by id " + id + " not found"));
    }

    public void delete(int id) {
        repo.deleteById(id);
    }
}

```

Capstone-file - project/src/main/java/com/project/exceptions/UserNotFoundException.java - Spring Tool Suite 4

```

1 package com.project.exceptions;
2
3 public class UserNotFoundException extends RuntimeException {
4     public UserNotFoundException(String message) {
5         super(message);
6     }
7 }

```

Capstone-file - project/src/main/java/com/project/controller/AppController.java - Spring Tool Suite 4

```

1 package com.project.controller;
2
3 import java.util.List;
4
5 @CrossOrigin("http://localhost:4200")
6 @RestController
7 @RequestMapping("/aadhar")
8 public class AppController {
9
10     private final AadharService aadharService;
11
12     public AppController(AadharService aadharService) {
13         this.aadharService=aadharService;
14     }
15
16     @GetMapping("/")
17     public ResponseEntity<List<MyAadhar>> getalldetails(){
18         List<MyAadhar> records=aadharService.findallRecords();
19         return new ResponseEntity<>(records,HttpStatus.OK);
20     }
21
22     @GetMapping("/find/{id}")
23     public ResponseEntity<MyAadhar> getaadharById(@PathVariable("id") int id){
24         MyAadhar myaadhar =aadharService.findMyAadharById(id);
25         return new ResponseEntity<>(myaadhar,HttpStatus.OK);
26     }
27
28     @PostMapping("/add")
29     ResponseEntity<MyAadhar> addRequest(@RequestBody MyAadhar x){
30         myaadhar =aadharService.add(x);
31         return new ResponseEntity<>(x,HttpStatus.CREATED);
32     }
33
34     //for updating
35     @PutMapping("/update")
36     ResponseEntity<MyAadhar> updateRequest(@RequestBody MyAadhar x){
37         myaadhar =aadharService.update(x);
38         return new ResponseEntity<>(x,HttpStatus.OK);
39     }
40
41     @DeleteMapping("/delete/{id}")
42     ResponseEntity<MyAadhar> deleteRequest(@PathVariable("id") int id){
43         aadharService.delete(id);
44         return new ResponseEntity<>(HttpStatus.OK);
45     }
46
47 }

```

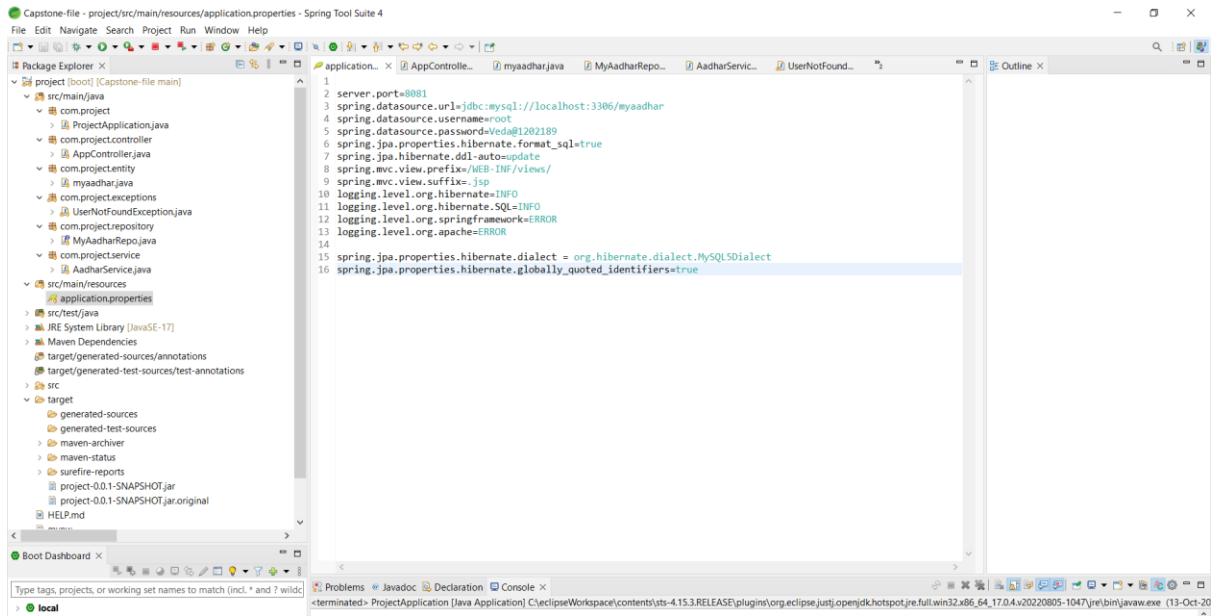
Capstone-file - project/src/main/java/com/project/controller/AppController.java - Spring Tool Suite 4

```

1 package com.project.controller;
2
3 import java.util.List;
4
5 @CrossOrigin("http://localhost:4200")
6 @RestController
7 @RequestMapping("/aadhar")
8 public class AppController {
9
10     private final AadharService aadharService;
11
12     public AppController(AadharService aadharService) {
13         this.aadharService=aadharService;
14     }
15
16     @GetMapping("/")
17     public ResponseEntity<List<MyAadhar>> getalldetails(){
18         List<MyAadhar> records=aadharService.findallRecords();
19         return new ResponseEntity<>(records,HttpStatus.OK);
20     }
21
22     @GetMapping("/find/{id}")
23     public ResponseEntity<MyAadhar> getaadharById(@PathVariable("id") int id){
24         MyAadhar myaadhar =aadharService.findMyAadharById(id);
25         return new ResponseEntity<>(myaadhar,HttpStatus.OK);
26     }
27
28     @PostMapping("/add")
29     ResponseEntity<MyAadhar> addRequest(@RequestBody MyAadhar x){
30         myaadhar =aadharService.add(x);
31         return new ResponseEntity<>(x,HttpStatus.CREATED);
32     }
33
34     //for updating
35     @PutMapping("/update")
36     ResponseEntity<MyAadhar> updateRequest(@RequestBody MyAadhar x){
37         myaadhar =aadharService.update(x);
38         return new ResponseEntity<>(x,HttpStatus.OK);
39     }
40
41     @DeleteMapping("/delete/{id}")
42     ResponseEntity<MyAadhar> deleteRequest(@PathVariable("id") int id){
43         aadharService.delete(id);
44         return new ResponseEntity<>(HttpStatus.OK);
45     }
46
47 }

```

# ● Applications.properties

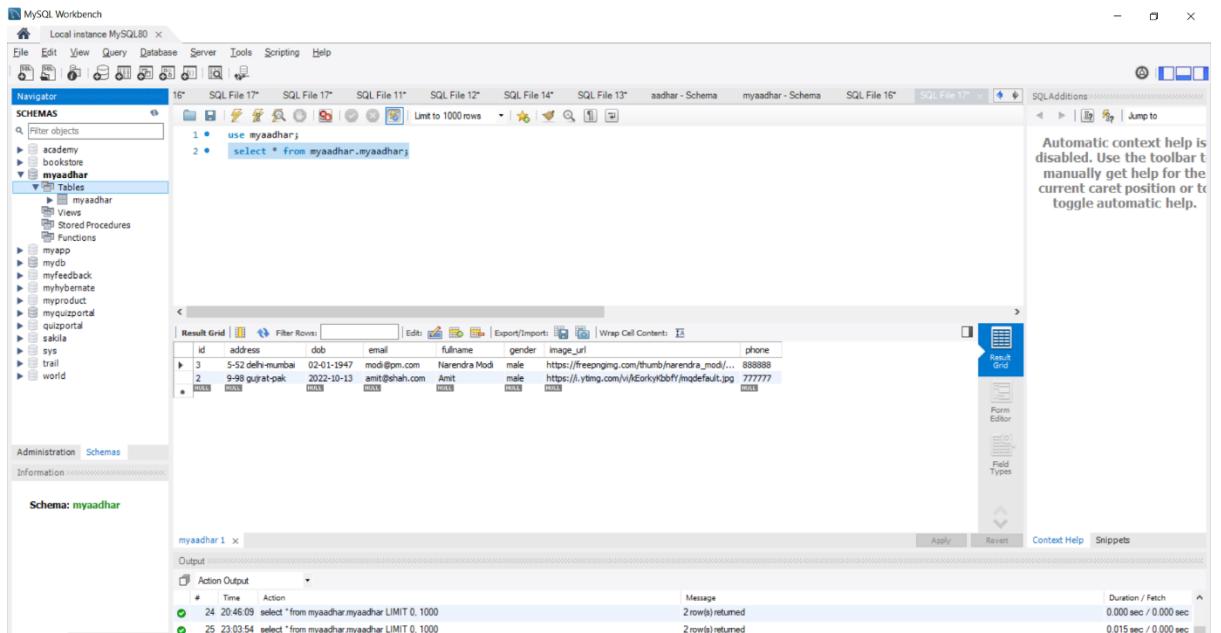


```

server.port=8081
spring.datasource.url=jdbc:mysql://localhost:3306/myaadhar
spring.datasource.username=root
spring.datasource.password=Veda@1202189
spring.jpa.properties.hibernate.format_sql=true
spring.jpa.hibernate.ddl-auto:update
spring.mvc.view.prefix=/WEB-INF/views/
spring.mvc.view.suffix=.jsp
logging.level.org.hibernate=INFO
logging.level.org.hibernate.SQL=INFO
logging.level.org.springframework=ERROR
logging.level.org.apache=ERROR
spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.MySQLDialect
spring.jpa.properties.hibernate.globally_quoted_identifiers=true

```

# MySQL workbench:



The screenshot shows the MySQL Workbench interface with a local instance of MySQL 8.0. The Navigator pane displays the 'myaadhar' schema, which contains tables like 'myaadhar', 'myapp', 'mydb', etc. The SQL Editor pane shows a query:

```

use myaadhar;
select * from myaadhar.myaadhar;

```

The Result Grid pane displays the following data:

	id	address	dob	email	fullname	gender	image_url	phone
3	5-22 delhi-mumbai	02-01-1947	modi@pm.com	Narendra Modi	male	<a href="https://freenging.com/thumb/narendra_modi_1600x1600.jpg">https://freenging.com/thumb/narendra_modi_1600x1600.jpg</a>	888888	
2	9-88 pujat-pak	2022-10-13	anit@shah.com	Anit	male	<a href="https://yimg.com/v/Morkyb6ff/mode/default.jpg">https://yimg.com/v/Morkyb6ff/mode/default.jpg</a>	777777	

The Output pane shows the execution history:

#	Time	Action	Message	Duration / Fetch
24	20:46:09	select * from myaadhar.myaadhar LIMIT 0, 1000	2row(s) returned	0.000 sec / 0.000 sec
25	23:03:54	select * from myaadhar.myaadhar LIMIT 0, 1000	2row(s) returned	0.015 sec / 0.000 sec

## ● FRONT END -ANGULAR

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

```

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

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

C:\javademo\angulardemos>ng new FrontEnd-Aadhar --no-strict
Would you like to add Angular routing? No
What stylesheet format would you like to use? CSS
CREATE FrontEnd-Aadhar/angular.json (3008 bytes)
CREATE FrontEnd-Aadhar/package.json (1080 bytes)
CREATE FrontEnd-Aadhar/README.md (1069 bytes)
CREATE FrontEnd-Aadhar/tsconfig.json (539 bytes)
CREATE FrontEnd-Aadhar/tsconfig.app.json (242 bytes)
CREATE FrontEnd-Aadhar/tsconfig.editor.json (242 bytes)
CREATE FrontEnd-Aadhar/gitignore (568 bytes)
CREATE FrontEnd-Aadhar/browserlistrc (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 (300 bytes)
CREATE FrontEnd-Aadhar/src/polyfills.ts (304 bytes)
CREATE FrontEnd-Aadhar/src/polyfills.js (730 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)
UPDATE FrontEnd-Aadhar/src/app/app.component.css (0 bytes)

/ Packages installed successfully.

warning: in the working copy of '.browserlistrc', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.editorconfig', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode/extensions.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode/launch.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of '.vscode/tasks.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'angular.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'karma.conf.js', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package-lock.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'package.json', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src/app/app.component.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src/app/app.component.spec.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src/app/app.component.ts', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src/app/app.module.css', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'src/app/app.module.ts', LF will be replaced by CRLF the next time Git touches it

nc nc

C:\javademo\angulardemos>cd FrontEnd-Aadhar

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

Initial Chunk Files | Names | Raw Size
vendor.js | vendor | 3.36 MB |
polyfills.js | polyfills | 336.29 kB |
styles.css, styles.js | styles | 212.52 kB |
main.js | main | 72.00 kB |
runtime.js | runtime | 6.87 kB |

| Initial Total | 2.98 MB

Build at: 2022-10-13T07:18:25.529Z - Hash: 5872c583c7a9cb1a - 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)

The image shows two side-by-side instances of the Visual Studio Code editor. Both instances have the title bar "FrontEnd-Aadhar [Administrator]" and the status bar "Ln 18, Col 1 Spaces: 2 UTF-8 LF (TypeScript) Go Live Prettier".

**Top Window (environment.ts):**

```
src > environments > TS environments > ...
1 // This file can be replaced during build by using the 'fileReplacements' array.
2 // 'ng build' replaces 'environment.ts' with 'environment.prod.ts'.
3 // The list of file replacements can be found in 'angular.json'.
4
5 export const environment = {
6   production: false,
7   apiBaseUrl: 'http://localhost:8081'
8 };
9
10 /*
11  * For easier debugging in development mode, you can import the following file
12  * to ignore zone related error stack frames such as 'zone.run', 'zoneDelegate.invokeTask'.
13  *
14  * This import should be commented out in production mode because it will have a negative impact
15  * on performance if an error is thrown.
16  */
17 // import 'zone.js/plugins/zone-error'; // Included with Angular CLI.
```

**Bottom Window (app.module.ts):**

```
src > app > TS app.module.ts M > ...
1 import { NgModule } from '@angular/core';
2 import { FormsModule, ReactiveFormsModule } from '@angular/forms';
3 import { BrowserModule } from '@angular/platform-browser';
4 import { RouterModule, Routes } from '@angular/router';
5 import { HttpClientModule } from '@angular/common/http';
6 import { AppService } from './myaadhar/myaadhar.service';
7 import { AppComponent } from './app.component';
8 import { HomeComponent } from './home/home.component';
9 import { AdminComponent } from './admin/admin.component';
10 import { UserComponent } from './user/user.component';
11 import { MyaadharComponent } from './myaadhar/myaadhar.component';
12 import { DuplicateaadharComponent } from './duplicateaadhar/duplicateaadhar.component';
13
14 const appRoutes: Routes = [
15   { path: 'home', component: HomeComponent },
16   { path: 'admin', component: AdminComponent },
17   { path: 'user', component: UserComponent },
18   { path: 'myaadhar', component: MyaadharComponent },
19   { path: 'myaadhar2', component: DuplicateaadharComponent }
20 ];
21
22 @NgModule({
23   declarations: [
24     AppComponent,
25     HomeComponent,
26     AdminComponent,
27     UserComponent,
28     MyaadharComponent,
29     DuplicateaadharComponent
30   ],
31   imports: [
32     BrowserModule,
33     HttpClientModule,
34     FormsModule,
35   ]
36 })
37 export class AppModule { }
```

FrontEnd-Aadhar [Administrator]

```

src > app > app.component.html > div.container > div.row > div.col
      Go to component
1   <div class="container" style="font-size: 25px">
2     <div class="row">
3       <div class="col">
4         <ul class="nav nav-tabs">
5           <li role="presentation" class="nav-item" routerLinkActive="active" [routerLinkActiveOptions]="{ exact: true }">
6             <a class="nav-link" routerLink="home" style="text-decoration: none">Home</a>
7           </li>
8           <li role="presentation" class="nav-item" routerLinkActive="active" >
9             <a class="nav-link" routerLink="admin" style="text-decoration: none">admin</a>
10            </li>
11           <li role="presentation" class="nav-item" routerLinkActive="active" >
12             <a class="nav-link" routerLink="user" style="text-decoration: none">user</a>
13           </li>
14           <li role="presentation" class="nav-item" routerLinkActive="active" >
15             <a class="nav-link" routerLink="myaadhar" style="text-decoration: none">myaadhar</a>
16           </li>
17           <li role="presentation" class="nav-item" routerLinkActive="active" >
18             <a class="nav-link" routerLink="myaadhar2" style="text-decoration: none">myaadhar2</a>
19           </li>
20         </ul>
21       </div>
22     </div>
23   </div>
24 </app>
25 </div>
26 </div>
27 </div>
28 </div>
29 </div>
30 </div>
31 </div>
32 </div>
33 </div>
34 </div>
35 </div>
36 </div>

```

Ln 3, Col 22 Spaces: 2 UTF-8 LF HTML Go Live Prettier

FrontEnd-Aadhar [Administrator]

```

src > app > home > home.component.html > ...
      Go to component
1   <div class="container mt-50 text-center">
2     <h1>Welcome to mAadhar Application Portal!!</h1>
3     <p class="text-center"><b>Please Login to Continue!!</b></p>
4     <button class="btn btn-info mt-5" (click)="gotoAdmin()">Admin LogIn</button>
5     <br />
6     <button class="btn btn-success mt-5" (click)="gotoCitizen()">
7       Citizen LogIn</button>
8     <br />
9     <button class="btn btn-primary mt-5" (click)="gotoRegister()">
10       Register New Citizen
11     </button>
12   </div>

```

Ln 13, Col 1 Spaces: 2 UTF-8 LF HTML Go Live Prettier

FrontEnd-Aadhar [Administrator]

```
src > app > app.component.html > div.container > div.row > div.col
  Go to component
  1 <div class="container" style="font-size: 25px">
  2   <div class="row">
  3     <div class="col">
  4       <ul class="nav nav-tabs">
  5         <li role="presentation" class="nav-item" routerLinkActive="active" [routerLinkActiveOptions] = { exact: true }>
  6           <a class="nav-link" routerLink="home" style="text-decoration: none">Home</a>
  7         </li>
  8         <li role="presentation" class="nav-item" routerLinkActive="active" >
  9           <a class="nav-link" routerLink="admin" style="text-decoration: none">admin</a>
  10          >
  11        </li>
  12        <li role="presentation" class="nav-item" routerLinkActive="active" >
  13          <a class="nav-link" routerLink="user" style="text-decoration: none">user</a>
  14        </li>
  15        <li role="presentation" class="nav-item" routerLinkActive="active" >
  16          <a class="nav-link" routerLink="myaadhar" style="text-decoration: none">myaadhar</a>
  17        </li>
  18      </ul>
  19      <div>
  20        <ng-container>
  21          <ng-template>
  22            <div>
  23              <div>Please enter a valid username:</div>
  24            </div>
  25          </ng-template>
  26        </ng-container>
  27      </div>
  28    </div>
  29  </div>
  30  </div>
  31  </div>
  32  </div>
  33  </div>
  34  </div>
  35  </div>
  36  </div>
  37  </div>
  38  </div>
  39  </div>
  40  </div>
  41  </div>
  42  </div>
  43  </div>
  44  </div>
  45  </div>
  46  </div>
  47  </div>
  48  </div>
  49  <button class="btn btn-primary m-2" type="submit" [disabled] = " !signupForm.valid " >
  50    Submit
  51  </button>
  52  </form>
  53  </div>
  54  </div>
  55  </div>
  56  </div>
```

FrontEnd-Aadhar [Administrator]

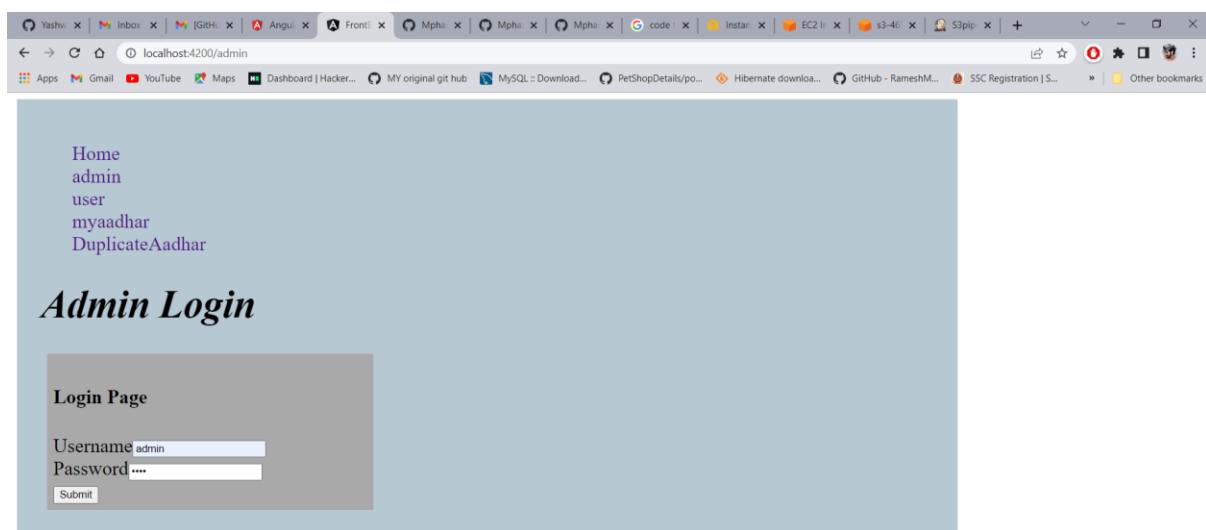
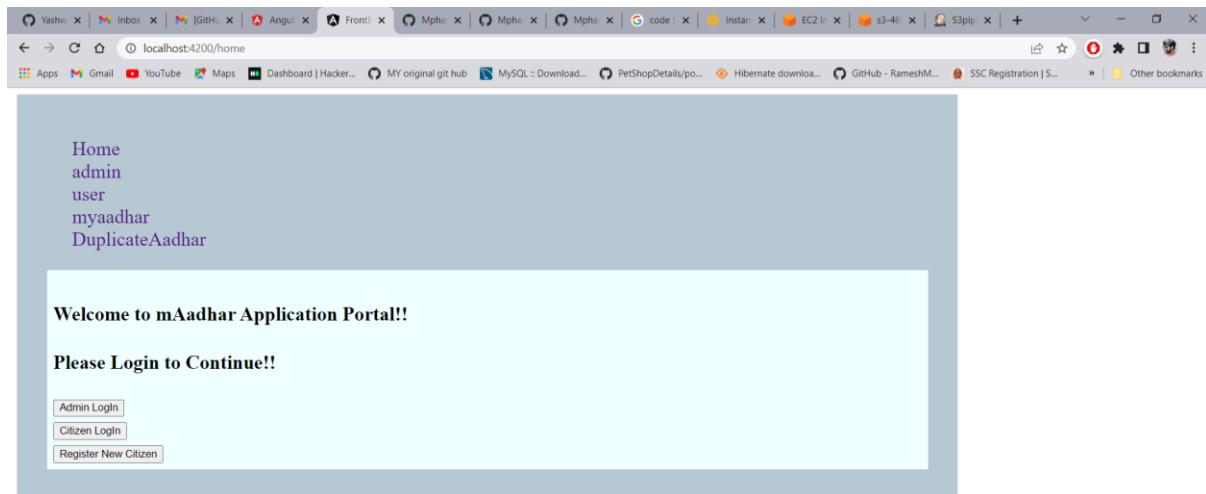
```
src > app > user > user.component.html > ...
  Go to component
  22   <div>
  23     <div>Please enter a valid username:</div>
  24   </div>
  25 </div>
  26 </div>
  27 <div class="row">
  28   <div class="form-group">
  29     <span><i>Enter Mobile number as Password</i></span>
  30     <br />
  31     <label for="password">Password</label>
  32     <input type="text" id="password" class="form-control" formControlName="password" />
  33     <span class="small" *ngIf=" ! signupForm.get('password').valid & & signupForm.get('password').touched >
  34       > Incorrect Password</span>
  35   </div>
  36 </div>
  37 <div>
  38   <button class="btn btn-primary m-2" type="submit" [disabled] = " !signupForm.valid " >
  39     Submit
  40   </button>
  41   </form>
  42 </div>
  43 </div>
  44 </div>
  45 </div>
  46 </div>
  47 </div>
  48 </div>
  49 <button class="btn btn-primary m-2" type="submit" [disabled] = " !signupForm.valid " >
  50   Submit
  51 </button>
  52 </form>
  53 </div>
  54 </div>
  55 </div>
  56 </div>
```

The screenshot shows a code editor interface with the title "FrontEnd-Aadhar [Administrator]". The left sidebar displays a file tree for a project named "FRONTEND-AADHAR". The "src" folder contains several components and services. The "myaadhar" component is currently selected, showing its template code.

```
<p> myaadhar > myaadhar.component.html > div#main-container.container > div#deleteCitizenModal.modal.fade > div.modal-dialog > div.modal-content > div.modal-header > button.close
    </p>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">
            No
        </button>
        <button type="button" class="btn btn-danger" (click)="onDeleteCitizen(deleteRecord?.id)" data-dismiss="modal">
            Yes
        </button>
    </div>
</div>
</div>
</div>
<!-- Notification for no employees -->
<div *ngIf="records?.length == 0" class="col-lg-12 col-md-12 col-xl-12">
    <div class="alert alert-info" role="alert">
        <h4 class="alert-heading">No Registered users!</h4>
        <p>No users were found.</p>
    </div>
</div>
```

The code editor's status bar at the bottom indicates "Ln 397, Col 26" and "Spaces: 2".

## OutPut:



Yashvi | Inbox | [Gith... | Angular | Front! | Mph... | Mph... | Mph... | code | Insta... | EC2 In... | s3-46 | S3pip | + | localhost:4200/user

Apps Gmail YouTube Maps Dashboard | Hacker... MY original git hub MySQL :: Download... PetShopDetails/po... Hibernate download... GitHub - RameshM... SSC Registration | S... Other bookmarks

Home  
admin  
user  
myaadhar  
DuplicateAadhar

## Citizen Login

**Login Page**

Username   
Enter Mobile number as Password  
Password  123456789

Yashvi | Inbox | [Gith... | Angular | Front! | Mph... | Mph... | Mph... | code | Insta... | EC2 In... | s3-46 | S3pip | + | localhost:4200/myaadhar

Apps Gmail YouTube Maps Dashboard | Hacker... MY original git hub MySQL :: Download... PetShopDetails/po... Hibernate download... GitHub - RameshM... SSC Registration | S... Other bookmarks

## Register Citizens

Narendra Modi

male

- DOB : 02-01-1947
- Address : 5-52 delhi-mumbai
- modi@pm.com
- Phone : 888888



localhost:4200/myaadhar

Home  
admin  
user  
myaadhar  
DuplicateAadhar

## Admin Portal

AadharApplication

Search Citizen...

### Register Citizens



Narendra Modi

### New Citizen Register

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

Name  Name

Gender  Gender

Email Address  Email

D.O.B  dd-mm-yyyy

Home Address  Address

Phone  Phone

Image URL  Image URL

Close  Save changes

Yashw x | M Gmail x | GitHub x | Angular x | Frontend x | Mphash x | Mphash x | Google code x | Instant x | EC2 Instances x | s3-4c x | S3 pipeline x | +

localhost:4200/myaadhar2

Apps Gmail YouTube Maps Dashboard | Hacker... MY original git hub MySQL - Download... PetShopDetails/po... Hibernate download... GitHub - RameshM... SSC Registration | S...

Home  
admin  
user  
myaadhar  
DuplicateAadhar

## Citizen's Portal

AadharApplication

- New Citizen Register (current)

Enter your Name:

### Register Citizens



Name:  Narendra Modi

D.O.B:  dd-mm-yyyy

Email Address:  modi@pm.com

Home Address:  552 delhi-mumbai

Gender:  male

Phone:  888888

Image URL:  https://freepngimg.com/thumb/

### Edit Citizen Narendra Modi



Name:  Narendra Modi

Gender:  male

Email Address:  modi@pm.com

D.O.B:  dd-mm-yyyy

Home Address:  552 delhi-mumbai

Phone:  888888

Image URL:  https://freepngimg.com/thumb/

localhost:4200/myaadhar

### Edit Citizen

Name:

Gender:

Email Address:

D.O.B:

Home Address:

Phone:

Image URL:

### Delete Citizen

Are you sure you want to delete Narendra Modi?

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas

- academy
- beakstos
- myaadhar**
  - myaadhar
  - Views
  - Stored Procedures
  - Functions
- myapp
- mydb
- myfeedback
- myfeedbackname
- myproduct
- myquizeportal
- quizportal
- sakila
- sys
- trail
- world

Administration Schemas

Information

Schema: myaadhar

myaadhar 2

Action 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 screenshot displays two Eclipse IDE windows side-by-side.

**Top Window (POM.XML):**

```
<project>
    <modelVersion>4.0.0</modelVersion>
    <groupId>AutomationTesting-m_aadhar</groupId>
    <artifactId>AutomationTesting-m_aadhar</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <build>
        <sourceDirectory>src</sourceDirectory>
        <plugins>
            <plugin>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.8.1</version>
                <configuration>
                    <release>17</release>
                </configuration>
            </plugin>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-surefire-plugin</artifactId>
                <version>3.0.0-M5</version>
            </plugin>
        </plugins>
    </build>
    <dependencies>
        <dependency>
            <groupId>org.testng</groupId>
            <artifactId>testng</artifactId>
            <version>7.5</version>
        </dependency>
        <dependency>
            <groupId>org.seleniumhq.selenium</groupId>
            <artifactId>selenium-java</artifactId>
            <version>4.1.2</version>
        </dependency>
    </dependencies>
</project>
```

**Bottom Window (Java Code):**

```
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 = new ChromeDriver();
16         webdriver.get(URL);
17         webdriver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
18
19         webdriver.findElement(By.xpath("//button[normalize-space()='Register New Citizen']")).click();
20         webdriver.findElement(By.xpath("//ul[@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']"))
22             .sendKeys("Testing Name@max");
23         webdriver.findElement(By.xpath("//input[@id='dob']"))[1]).sendKeys("02/01/2001");
24         webdriver.findElement(By.xpath("//input[@id='email']"))[1]).sendKeys("max@Testing.com");
25         webdriver.findElement(By.xpath("//input[@id='address']"))[1]).sendKeys("1234567890,UK");
26         webdriver.findElement(By.xpath("//input[@id='gender']"))[1]).sendKeys("Male");
27         webdriver.findElement(By.xpath("//input[@id='phone']"))[1]).sendKeys("1234567777");
28         webdriver.findElement(By.xpath("//input[@id='imageurl']"))[1]).sendKeys("https://static.vecteezy.com/system/resources/thumbnails/000/464/891/small/bussman1-15.jpg");
29         webdriver.findElement(By.xpath("//button[@type='submit']")).click();
30         System.out.println("Registration Tested Successfully");
31     }
32 }
```

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

File Edit Source Refactor Navigate Search Project Run Window Help

Problems Declaration Console Progress Results of running class TestRegistration

```
[TestNG] 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 (412c95e5188330d8a70972506d62b29c2ae6a26a85-refs/branch-heads/5195@{#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.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-v86:4.1.2' when
Registration Tested Succesfully
PASSED: registration

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

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

A FrontEndAadhar x +

localhost:4200/myaadhar2

Chrome is being controlled by automated test software.

Phone : 777777



Testing Name@max

Male

- DOB : 2201-01-02
- Address : 1-12,dallas,uk
- max@Testing.com
- Phone : 123456777

New Citizen Register

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- Filter objects
- academy
- bookstore
- myaadhar**
- Tables
- myaadhar
- Views
- Stored Procedures
- Functions
- myapp
- mydb
- myfeedback
- myhibernate
- myproduct
- myquizportal
- quizportal
- sakila
- sys
- trail
- world

SQL File 17\* SQL File 17\* SQL File 11\* SQL File 12\* SQL File 14\* SQL File 13\* sadhar - Schema myaadhar - Schema SQL File 16\* SQL File 17\* SQL Additions

1 • use myaadhar;

2 • select \* from myaadhar.myaadhar;

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid | Filter Rows: [ ] Edit: [ ] Export/Import: [ ] Wrap Cell Content: [ ]

id	address	dob	email	fullname	gender	image_url	phone
3	5-52 delhi-mumbai	02-01-1947	modi@pm.com	Narendra Modi	male	https://freepngimg.com/thumb/harendra_modi... 888888	
2	9-98 gurgaon-pak	2022-10-13	amit@shah.com	Amit	male	https://ytimg.com/vjEorkybbf/m/default.jpg 777777	
11	1-12,dallas,uk	2201-01-02	max@Testing.com	Testing Name@max	Male	https://static.veeteezy.com/system/resources/... 123456777	
*							

Result Grid Form Editor Field Types

myaadhar 7

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	23:34:42	select * from myaadhar.myaadhar LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
31	23:35:24	select * from myaadhar.myaadhar LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

Apply Revert Context Help Snippets

--Successfully Tested

- Deploy The Application In EC2:

## Spring Boot Project in STS

- After creating the Project :

➤ Maven Clean

➤ Maven Install

➤ Maven Update

- After this we find the SNAPSHOT.jar in Target folder.

```
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 }
```

```
[INFO] Scanning for projects...
[INFO] ------------------------------------------------------------------------
[INFO] Building project 0.0.1-SNAPSHOT
[INFO] ------------------------------------------------------------------------
[INFO] --- maven-clean-plugin:3.2.0:clean (default-clean) @ project ---
[INFO] Deleting C:\javademo\Capstone-file\project\target
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 0.480 s
[INFO] Finished at: 2022-10-13T21:03:32+05:30
[INFO] ------------------------------------------------------------------------
[WARNING] The requested profile "pom.xml" could not be activated because it does not exist.
```

Capstone-file - project/src/main/java/com/project/ProjectApplication.java - Spring Tool Suite 4

```
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
```

Package Explorer X

- project [boot] [Capstone-file main]
  - src/main/java
    - com.project
      - ProjectApplication.java
      - AppController.java
      - MyAadhar.java
      - com.project.entity
      - com.project.exceptions
      - UserNotFoundException.java
      - com.project.repository
      - MyAadharRepo.java
      - 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
    - HELP.md

Outline X

  - com.project
  - ProjectApplication
  - main(String[])

Problems X JavaDoc Declaration Console X

```
<terminated> C:\eclipse\Workspace\content\sts-4.15.3.RELEASE\plugins\org.eclipse.jst\openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\javaw.exe (13-Oct-2022, 9:04:07 pm) [pid: 3216]
[INFO] --- maven-jar-plugin:3.2.2:jar (@project) @ project ---
[INFO] Building jar: C:\javadev\Capstone-file\project\target\project-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.7.4:repackage (repackage) @ project ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (@default-install) @ project ---
[INFO] Installing C:\javadev\Capstone-file\project\target\project-0.0.1-SNAPSHOT.jar to C:\Users\yashwath\.m2\repository\com\example\project\0.0.1-SNAPSHOT\project-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\javadev\Capstone-file\project\pom.xml to C:\Users\yashwath\.m2\repository\com\example\project\0.0.1-SNAPSHOT\project-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 17.880 s
[INFO] Finished at: 2022-10-13T21:04:26+05:30
[INFO] -----
[WARNING] The requested profile "pom.xml" could not be activated because it does not exist.
```

# Now Create an EC2 Instance With User Data In it.

The image consists of three vertically stacked screenshots of the AWS EC2 'Launch an instance' wizard, illustrating the steps to create an EC2 instance with user data.

**Screenshot 1: Name and tags**

In this step, you define the instance name and add tags. The 'Name' field contains 'CapstoneDemo'. The 'Software Image (AMI)' dropdown is set to 'Amazon Linux 2 Kernel 5.10 AMI...'. The 'Virtual server type (instance type)' is 't2.micro'. The 'Storage (volumes)' section shows '1 volume(s) - 8 GiB'. A note indicates a 'Free tier: In your first year includes 750 hours'. The 'Launch Instance' button is visible at the bottom right.

**Screenshot 2: Application and OS Images (Amazon Machine Image)**

In this step, you select the Amazon Machine Image (AMI). The 'Amazon Linux' option is selected. The 'Description' section shows 'Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type'. The 'Architecture' dropdown is set to '64-bit (x86)'. The 'AMI ID' is 'ami-026b57f3c383c2eec'. A 'Verified provider' badge is present. The 'Launch Instance' button is visible at the bottom right.

**Screenshot 3: Instance type**

In this step, you choose the instance type. The 'Instance type' dropdown is set to 't2.micro'. The 'Launch Instance' button is visible at the bottom right.

Screenshot of the AWS EC2 console showing the creation of a new key pair and the launch of an instance.

**Create Key Pair**

Key pair name: NewKeyPair

Key pair type: RSA

Private key file format: .pem

**Instances (1/1) Info**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
CapstoneDemo	i-03be299ce3b7fcf5a	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-18-204-18-30.compute-1.amazonaws.com

**Instance: i-03be299ce3b7fcf5a (CapstoneDemo)**

Public IPv4 address copied: 18.204.18.30 | open address

Private IPv4 addresses: 172.31.90.152

Public IPv4 DNS: ec2-18-204-18-30.compute-1.amazonaws.com | open address

# Add The Port -8080 to Security Groups.

The screenshot shows the AWS Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-015c12bd677b0e2ae>. The page title is "Edit inbound rules". It displays a table of inbound rules:

Inbound rules	Info
sgr-055b405591b82eee9	Type: SSH, Protocol: TCP, Port range: 22, Source: Custom (0.0.0.0/0), Description: optional
sgr-0b9d6c8e40e1d4b43	Type: HTTP, Protocol: TCP, Port range: 80, Source: Custom (0.0.0.0/0), Description: optional
-	Type: Custom TCP, Protocol: TCP, Port range: 8080, Source: Anywhere (0.0.0.0/0), Description: optional

At the bottom, there are buttons for "Add rule", "Cancel", "Preview changes", and "Save rules".

## Create A New Role for the EC2 instance.

- Created a role to read S3 Objects.

Introducing the new IAM roles experience  
We've redesigned the IAM roles experience to make it easier to use. Let us know what you think.

IAM > Roles > Create role

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Select trusted entity Info

Trusted entity type

AWS service Allow AWS services like EC2, Lambda, or others to perform actions in this account.

AWS account Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

Web identity Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

SAML 2.0 federation Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

Custom trust policy Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Common use cases

EC2 Allow EC2 instances to call AWS endpoints on your behalf.

Feedback Looking for language selection? Find it in the new [Unified Settings](#).

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NewKeyPair (1).ppk | FrontEnd-Aadhar.rar | modi.jpg

IAM > Roles > Create role

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Add permissions Info

Permissions policies (Selected 1/770) Info

Choose one or more policies to attach to your new role.

Filter policies by property or policy name and press enter.

\*s3read\*

Policy name

Type

 AmazonS3Readonly... AWS m... Provides read only access to all buckets via the AWS Management Console.

Set permissions boundary - optional Info

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting, but you can use it to delegate permission management to others.

Cancel Previous Next

Feedback Looking for language selection? Find it in the new [Unified Settings](#).

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NewKeyPair (1).ppk | FrontEnd-Aadhar.rar | modi.jpg

# Now add the Role To the instance.

The screenshot shows the 'Modify IAM role' page in the AWS IAM service. The 'Instance ID' dropdown is set to 'i-03be299ce3b7fcf5a (CapstoneDemo)'. The 'IAM role' dropdown contains 'S3readobjectrole'. At the bottom, there are 'Cancel' and 'Update IAM role' buttons.

# Create a S3 Bucket and add the SNAPSHOT.jar into the Bucket.

The screenshot shows the 'Create bucket' page in the AWS S3 service. The 'Bucket name' field is filled with 's3-465bucket'. The 'AWS Region' is set to 'US East (N. Virginia) us-east-1'. The 'Object Ownership' section indicates control by the AWS account. At the bottom, there are 'Feedback' and 'Provide feedback' buttons.

The screenshot shows the AWS S3 console interface. On the left, a sidebar titled 'Amazon S3' lists various options like Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, and Access analyzer for S3. Below this is a section for 'Block Public Access settings for this account'. Under 'Storage Lens', there are links for Dashboards and AWS Organizations settings. A 'Feature spotlight' section is also present. The main content area shows a breadcrumb path: Amazon S3 > Buckets > s3-465bucket. The title of the current page is 's3-465bucket'. Below the title, there are tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is selected, displaying a table with one item: 'project-0.0.1-SNAPSHOT.jar'. The table includes columns for Name, Type, Last modified, Size, and Storage class. At the bottom of the table, it shows '41.6 MB Standard'. Above the table, there are buttons for Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload. A search bar labeled 'Find objects by prefix' is also visible. The footer of the page includes links for Feedback, Unified Settings, Privacy, Terms, and Cookie preferences, along with a copyright notice: '© 2022, Amazon Web Services, Inc. or its affiliates.'

Now Run the jar File from Bucket through EC2.

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

```
invalid choice: 'configure', maybe you meant:
 * configure
[ec2-user@ip-172-31-90-152 ~]$ aws configure list
Name          Value      Type    Location
----          ----      ----
profile       <not set>   None   None
access_key    *****/173T    iam-role
secret_key    *****/x2Xe    iam-role
region        <not set>   None   None
[ec2-user@ip-172-31-90-152 ~]$ cp s3 cp s3://s3-465bucket/project-0.0.1-SNAPSHOT.jar
Note: AWS CLI version 2, the latest major version of the AWS CLI, is now stable and recommended for general use. For more information, see the AWS CLI version 2 installation instructions at: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:
aws help
aws <command> help
aws <command> <subcommand> help
aws: error: too few arguments
[ec2-user@ip-172-31-90-152 ~]$ aws s3 cp s3://s3-465bucket/project-0.0.1-SNAPSHOT.jar app.jar
download: s3://s3-465bucket/project-0.0.1-SNAPSHOT.jar to ./app.jar
[ec2-user@ip-172-31-90-152 ~]$
```

i-03be299ce3b7fcf5a (CapstoneDemo)

PublicIPs: 18.204.18.30 PrivateIPs: 172.31.90.152

Feedback Looking for language selection? Find it in the new Unified Settings [?] © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

NewKeyPair (1).ppk FrontEnd-Aadhar.rar modi.jpg

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

```
aws <command> help
aws <command> <subcommand> help
aws: error: too few arguments
[ec2-user@ip-172-31-90-152 ~]$ aws s3 cp s3://s3-465bucket/project-0.0.1-SNAPSHOT.jar app.jar
download: s3://s3-465bucket/project-0.0.1-SNAPSHOT.jar to ./app.jar
[ec2-user@ip-172-31-90-152 ~]$ java -jar app.jar
```

Spring Boot :: (v2.7.4)

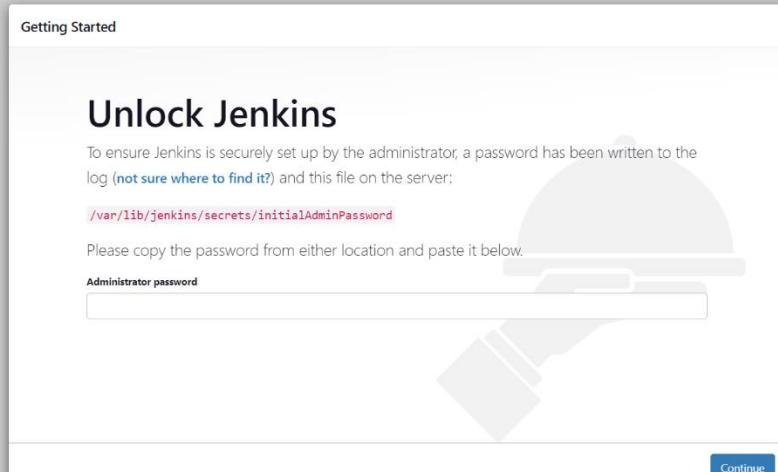
```
2022-10-13 16:54:59.502 INFO 6727 --- [           main] com.project.ProjectApplication        : Starting ProjectApplication v0.0.1-SNAPSHOT using Java 17.0.4.1 on ip-172-31-90-152.ec2.internal with PID 6727 (/home/ec2-user/app.jar started by ec2-user in /home/ec2-user)
2022-10-13 16:54:59.510 INFO 6727 --- [           main] com.project.ProjectApplication        : No active profile set, falling back to 1 default profile: "default"
2022-10-13 16:55:05.747 INFO 6727 --- [           main] o.h.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2022-10-13 16:55:05.886 INFO 6727 --- [           main] org.hibernate.Version                    : HHH000412: Hibernate ORM core version 5.6.11.Final
2022-10-13 16:55:06.285 INFO 6727 --- [           main] org.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations (5.1.2.Final)
2022-10-13 16:55:06.595 INFO 6727 --- [           main] com.zaxxer.hikari.HikariDataSource   : HikariPool-1 - Starting...
2022-10-13 16:55:07.641 ERROR 6727 --- [           main] com.zaxxer.hikari.pool.HikariPool    : HikariPool-1 - Exception during pool initialization.
```

i-03be299ce3b7fcf5a (CapstoneDemo)

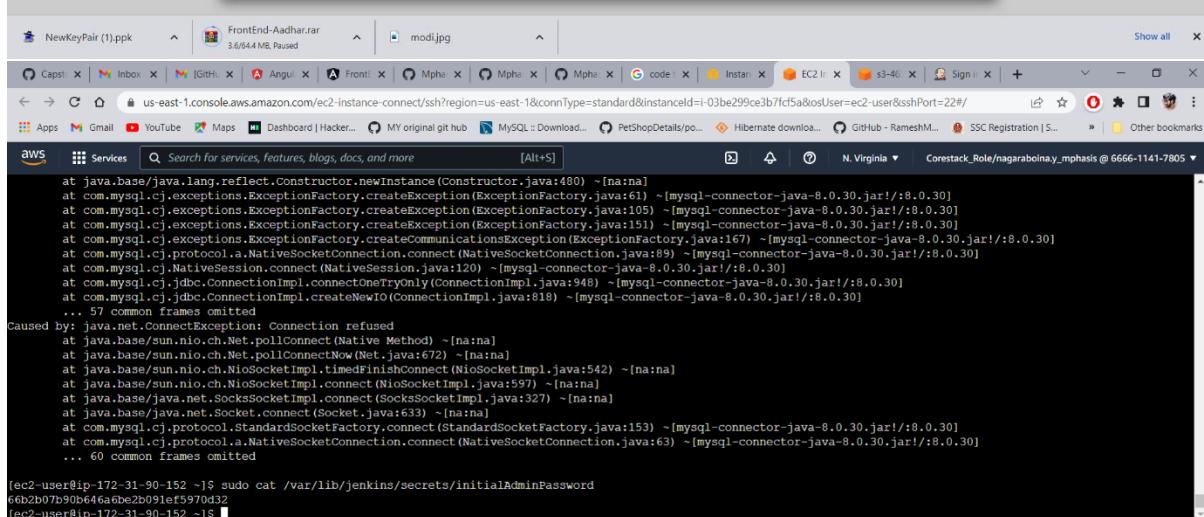
PublicIPs: 18.204.18.30 PrivateIPs: 172.31.90.152



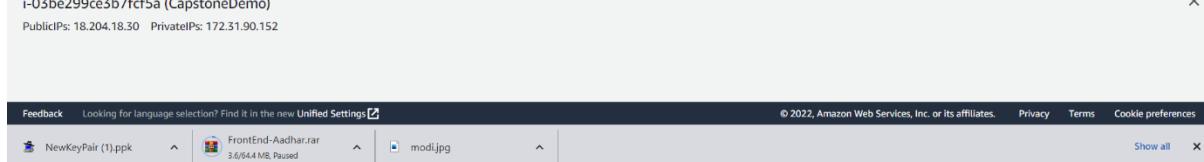
## • Configuring CI/CD through Jenkins



The screenshot shows a browser window with the Jenkins 'Unlock Jenkins' configuration page. The page title is 'Getting Started' and the main heading is 'Unlock Jenkins'. It instructs the user to ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server: `/var/lib/jenkins/secrets/initialAdminPassword`. Below this, it says 'Please copy the password from either location and paste it below.' There is a text input field labeled 'Administrator password' and a 'Continue' button.

A terminal window is shown displaying a Java stack trace. The error message 'Caused by: java.net.ConnectException: Connection refused' is followed by a long list of stack frames from MySQL connector classes such as `NativeSession`, `NioSocketImpl`, and `SocksSocketImpl`. The terminal also shows the command used to extract the password: `i-03be299ce3b7fcf5a$ cat /var/lib/jenkins/secrets/initialAdminPassword`.

A screenshot of the AWS CloudWatch Metrics interface. It shows a search bar with 'Search for services, features, blogs, docs, and more' and an 'Alt+S' keybinding. Below the search bar is a list of services. A detailed view is shown for a specific instance: 'Corestack\_Role/nagaraboinay\_mphasis @ 6666-1141-7805'. The view includes a graph of metric data over time and some descriptive text at the bottom.

Getting Started

## Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

.....

Continue

NewKeyPair (1).ppk

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modi.jpg

Getting Started

## Getting Started

Jenkins 2.361.2

Folders

- ✓ Timestamper
- ✓ Pipeline
- ✓ Git
- ✓ LDAP

✓ OWASP Markup Formatter

Build Timeout

Credentials Binding

Workspace Cleanup

Ant

Gradle

Github Branch Source

Pipeline: GitHub Groovy Libraries

Pipeline: Stage View

SSH Build Agents

Matrix Authorization Strategy

PAM Authentication

Email Extension

Mailer

Folders

- JavaBeans Activation Framework (JAF) API
- JavaMail API
- beanshell API
- PostConstruct
- Mina SSHD API :: Common
- Mina SSHD API :: Core
- SSH server

OWASP Markup Formatter

- Structs
- Token Macro

\*\* - required dependency

Show all

Getting Started

## Create First Admin User

Username:

Password:

Confirm password:

Full name:

E-mail address:

[Skip and continue as admin](#) [Save and Continue](#)

Jenkins

Dashboard > All >

### Enter an item name

S3pipeline > Required field

**Freestyle project** This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Pipeline** Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project** Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**OK** Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a

Screenshot of Jenkins Pipeline configuration screen:

The screenshot shows the Jenkins interface for configuring a pipeline named "S3pipeLine".

**General Tab:**

- Description: pipeline project
- Enabled: Yes (checkbox checked)
- Discard old builds: No (checkbox unchecked)
- Do not allow concurrent builds: No (checkbox unchecked)
- Do not allow the pipeline to resume if the controller restarts: No (checkbox unchecked)
- GitHub project: Yes (checkbox checked)
- Project url: https://github.com/YashwanthNagaraboina465/Capstone-aadhar.git

**Pipeline Tab:**

SCM configuration:

- SCM: Git
- Repository URL: https://github.com/YashwanthNagaraboina465/Capstone-aadhar.git
- Credentials: - none -
- Advanced...

Buttons at the bottom: Save, Apply.

- **Installing &Adding Docker**

- Source code is added in another pdf
  - My git:  
<https://github.com/YashwanthNagaraboina465/Capstone-aadhar.git>