

list.component.html

```
<h2>Admin {{a.username}}</h2>
<h3>Users list</h3>
<a routerLink="add" class="btn btn-sm btn-success mb-2">Add User</a>
<a routerLink="/pass" class="btn btn-link">change password</a>

<table class="table table-striped">
  <thead>
    <tr>
      <th style="width: 30%">Aadhar Id</th>
      <th style="width: 30%">Name</th>
      <th style="width: 30%">Phone</th>
      <th style="width: 10%"></th>
    </tr>
  </thead>
  <tbody>
    <tr *ngFor="let user of users">
      <td>{{user.id}}</td>
      <td>{{user.name}}</td>
      <td>{{user.phone}}</td>
      <td style="white-space: nowrap">
        <a routerLink="issue/{{user.id}}" >issue Aadhar</a>
        <a routerLink="edit/{{user.id}}" class="btn btn-sm btn-primary me-1">Edit</a>
        <button (click)="deleteUser(user.id)" class="btn btn-sm btn-danger btn-delete-user"
[disabled]="user.isDeleting">
          <span *ngIf="user.isDeleting" class="spinner-border spinner-border-sm"></span>
          <span *ngIf="!user.isDeleting">Delete</span>
        </button>
      </td>
    </tr>
    <tr *ngIf="!users">
      <td colspan="4" class="text-center">
        <span class="spinner-border spinner-border-lg align-center"></span>
      </td>
    </tr>
  </tbody>
</table>
```

list.component.ts

```
import { Component, OnInit } from '@angular/core';
import { first } from 'rxjs/operators';

import { AccountService } from '@app/_services';

@Component({ templateUrl: 'list.component.html' })
export class ListComponent implements OnInit {

  users?: any[];
  a:any;

  constructor(private accountService: AccountService) {
    this.a=accountService.ad;
    console.log(this.a);
  }

  ngOnInit() {

    this.accountService.getAll()
```

```

        .pipe(first())
        .subscribe(users => this.users = users);
        console.log(this.users);
    }

    deleteUser(id: string) {
        const user = this.users!.find(x => x.id === id);
        user.isDeleting = true;
        this.accountService.delete(id)
            .pipe(first())
            .subscribe(() => this.users = this.users!.filter(x => x.id !== id));
    }
}

```

home.component.html

```

<div class="container">
    <h2>Welcome Admin</h2>
    <a class="btn btn-primary" id="view" routerLink="/users">View Users</a>
    <a routerLink="/pass" class="btn btn-link">change password</a>
</div>

```

home.component.ts

```

import { Component } from '@angular/core';

import { User } from '@app/_models';
import { AccountService } from '@app/_services';

@Component({ templateUrl: 'home.component.html' })
export class HomeComponent {
    user: User | null;

    constructor(private accountService: AccountService) {
        this.user = this.accountService.userValue;
    }
}

```

login.component.html

```

<h4>Admin Login</h4>
<form [formGroup]="form" (ngSubmit)="onSubmit()">

    <div >
        <label >username </label>
        <input type="text" id="user" formControlName="username" [ngClass]="{ 'is-invalid':
submitted && forms.username.errors }" />
        <div *ngIf="submitted && forms.username.errors" class="invalid-feedback">
            <div *ngIf="forms.username.errors.required">Username is required</div>
        </div>
    </div>

    <div >
        <label class="form-label">Password:</label>
        <input type="password" id="pass" formControlName="password" [ngClass]="{ 'is-invalid':
submitted && forms.password.errors }" />
        <div *ngIf="submitted && forms.password.errors" class="invalid-feedback">
            <div *ngIf="forms.password.errors.required">Password is required</div>
        </div>
    </div>
</form>

```

```

    </div>

    <div>
      <button class="btn border-primary" id="login">Login</button>
    </div>
    <a routerLink="../register" class="btn btn-link"> Citizen Register</a>

    <a routerLink="../login" class="btn btn-link">Citizen Login</a>

  </form>

```

login.component.ts

```

import { Component, OnInit } from '@angular/core';
import { Router, ActivatedRoute } from '@angular/router';
import { FormBuilder, FormGroup, Validators } from '@angular/forms';
import { first } from 'rxjs/operators';

import { AccountService, AlertService } from '@app/_services';

@Component({ templateUrl: 'login.component.html' })
export class LoginComponent implements OnInit {
  form!: FormGroup;
  submitted = false;

  constructor(
    private formBuilder: FormBuilder,
    private route: ActivatedRoute,
    private router: Router,
    private accountService: AccountService,
    private alertService: AlertService
  ) { }

  ngOnInit() {
    this.form = this.formBuilder.group({
      username: ['', Validators.required],
      password: ['', Validators.required]
    });
  }

  get forms() { return this.form.controls; }

  onSubmit() {
    this.submitted = true;

    // reset alerts on submit
    this.alertService.clear();

    // stop here if form is invalid
    if (this.form.invalid) {
      return;
    }

    this.accountService.login(this.forms.username.value, this.forms.password.value)
      .pipe(first())
      .subscribe({
        next: () => {

```

```

        // get return url from query parameters or default to home page
        const returnUrl = this.route.snapshot.queryParams['Url'] ;
        this.router.navigateByUrl(returnUrl);
    },
    error: error => {
        this.alertService.error(error);
    }
});
}
}
}

```

app.component.html

```

<nav class="navbar navbar-expand bg-light px-3" *ngIf="user">
  <div class="navbar-nav">
    <a class="nav-item nav-link" routerLink="/" routerLinkActive="active"
[routerLinkActiveOptions]="{exact: true}">Home</a>
    <a class="nav-item nav-link" routerLink="/users" routerLinkActive="active">Users</a>
    <button class="btn btn-link nav-item nav-link" id="logout" (click)="logout()">Logout</button>
  </div>
</nav>

<div [ngClass]="{ 'bg-light': user }">
  <alert></alert>
  <router-outlet></router-outlet>
</div>

```

app.component.ts

```

import { Component } from '@angular/core';

import { AccountService } from './_services';
import { User } from './_models';

@Component({ selector: 'app-root', templateUrl: 'app.component.html' })
export class AppComponent {
  user?: User | null;

  constructor(private accountService: AccountService) {
    this.accountService.user.subscribe(x => this.user = x);
  }

  logout() {
    this.accountService.logout();
  }
}

```

account.service.ts

```

import { Injectable } from '@angular/core';
import { Router } from '@angular/router';
import { HttpClient } from '@angular/common/http';
import { BehaviorSubject, Observable } from 'rxjs';
import { map } from 'rxjs/operators';

import { environment } from '@environments/environment';
import { User, admin } from '@app/_models/user';

```

```

@Injectables({ providedIn: 'root' })
export class AccountService {
  private userSubject: BehaviorSubject<User | null>;
  public user: Observable<User | null>;
  ad=new admin("san","san")

  constructor(
    private router: Router,
    private http: HttpClient
  ) {

    this.userSubject = new BehaviorSubject(JSON.parse(localStorage.getItem('user'))!));
    this.user = this.userSubject.asObservable();

  }

  public get userValue() {
    return this.userSubject.value;
  }

  login(username: string, password: string) {

    //if(this.ad.password!==password){}
    console.log(this.ad.password+"logging");
    console.log(password+"Entered");
    return this.http.post<User>(`http://localhost:8080/product/authenticate`, { username, password })
      .pipe(map(user => {
        // store user details and jwt token in local storage to keep user logged in between page
        refreshes
        localStorage.setItem('user', JSON.stringify(user));
        this.userSubject.next(user);
        return user;
      })));

  }

  logout() {
    // remove user from local storage and set current user to null
    localStorage.removeItem('user');
    this.userSubject.next(null);
    this.router.navigate(['/account/login']);
  }

  register(user: User) {
    //return this.http.post(`http://localhost:4000/users/register`, user);
    return this.http.post(`http://localhost:8080/product/add`, user);
  }

  getAll() {
    //return this.http.get<User[]>(`${environment.apiUrl}/users`);
    return this.http.get<User[]>(`http://localhost:8080/product/list`);
  }

  getById(id: string) {
    return this.http.get<User>(`http://localhost:8080/product/list/${id}`);
  }

  addProductToBackEnd(name: string, price: String): Observable<User> {
    return this.http.post<User>(`http://localhost:8080/product/add`,
      {
        "name": name,

```

```

        "price": price,
    }
    });
}

update(id: string, params: any) {
    return this.http.put(`http://localhost:8080/product/update/${id}`, params)
        .pipe(map(x => {
            // update stored user if the logged in user updated their own record
            if (id == this.userValue?.id) {
                // update local storage
                const user = { ...this.userValue, ...params };
                localStorage.setItem('user', JSON.stringify(user));

                // publish updated user to subscribers
                this.userSubject.next(user);
            }
            return x;
        }));
}

delete(id: string) {
    return this.http.delete(`http://localhost:8080/product/delete/${id}`)
        .pipe(map(x => {
            // auto logout if the logged in user deleted their own record
            if (id == this.userValue?.id) {
                this.logout();
            }
            return x;
        }));
}
}
}

```

ProductRestController.java

```

package com.ecommerce;

import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
@RequestMapping("/product")
@CrossOrigin
public class ProductRestController {

    @Autowired
    EProductRepository eProductRepo;

    // List all the products
    @GetMapping(path="/list", produces = "application/json")
    public List<EProduct> listProducts(){
        List<EProduct> products = eProductRepo.findAll();
    }
}

```

```

        return products;
    }

    // Adding a new product
    @PostMapping(path="/add", consumes="application/json", produces = "application/json")
    public EProduct addProduct(@RequestBody EProduct eProduct){
        eProduct = eProductRepo.save(eProduct);
        return eProduct;
    }

    // Finding a single product and fetching its details
    @GetMapping(path="/list/{id}", produces = "application/json")
    public Object showProduct(@PathVariable("id") int id){

        Optional<EProduct> productFromRepo = eProductRepo.findById(id);

        if (productFromRepo.isPresent()) {
            EProduct product = productFromRepo.get();
            return product;
        }else {
            return "Aadhar with id = " + id + " not found";
        }
    }

    @GetMapping(path="/update/{id}", produces = "application/json")
    public Object updateproduct(@PathVariable("id") int id,@RequestBody EProduct eProduct){

        Optional<EProduct> productFromRepo = eProductRepo.findById(id);
        if (productFromRepo.isPresent()) {
            eProductRepo.update(eProduct);
            List<EProduct> products = eProductRepo.findAll();
            return products;
        }else {
            return "Aadhar with id = " + id + " not found, cannot update";
        }
    }

    //Delete a Product
    @GetMapping(path="/delete/{id}", produces = "application/json")
    public Object deleteProduct(@PathVariable("id") int id){

        Optional<EProduct> productFromRepo = eProductRepo.findById(id);

        if (productFromRepo.isPresent()) {
            eProductRepo.deleteById(id);
            return "Product with id = " + id + " found and deleted";
        }else {
            return "Product with id = " + id + " not found";
        }
    }
}

```

EProduct.java

```

package com.ecommerce;

import java.math.BigDecimal;
import java.sql.Date;

import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.NamedQuery;
import jakarta.persistence.Table;

```

```

@NamedQuery(name = "EProduct.findAllWherePriceIs1000", query="SELECT p from EProduct p where p.price=1000")
@Entity
@Table(name="eproduct")
public class EProduct {

    @Id
    @Column(name="Aadhar_id")
    private long ID;

    private String name;
    private BigDecimal price;

    public EProduct() {
    }

    public long getID() {return this.ID; }
    public String getName() { return this.name;}
    public BigDecimal getPrice() { return this.price;}

    public void setID(long id) { this.ID = id;}
    public void setName(String name) { this.name = name;}
    public void setPrice(BigDecimal price) { this.price = price;}
}

```

account.module.ts

```

import { NgModule } from '@angular/core';
import { ReactiveFormsModule } from '@angular/forms';
import { CommonModule } from '@angular/common';

@NgModule({
  imports: [
    CommonModule,
    ReactiveFormsModule,
  ],

  declarations: [
  ]
})

export class AccountModule { }

```

add-product.component.ts

```

import { Component } from '@angular/core';
import { Product } from '../classes/Product';
import { ProductService } from '../product.service';

@Component({
  selector: 'add-product',
  templateUrl: './add-product.component.html',
  styleUrls: ['./add-product.component.css']
})
export class AddProductComponent {

  product:Product = new Product('',0,'',true,true);
  constructor(private productService: ProductService) {
  }
}

```



```

    OnSubmit():void{
        console.log(`Form submitted with values ${this.product.name} ,
        ${this.product.price,this.product.id}`);

this.productService.addProductToBackEnd(this.product.name,this.product.price,this.product.id).subscribe(
    (response) => { this.product = response; },
    (error) => { console.log(error); });
    }
}

```

add-product.component.html

```

<div class="container" >

    <form #addProductForm="ngForm" (ngSubmit)="OnSubmit()">

        <div class="form-group">

            <label for="name">Name</label>

            <input type="text" class="form-control" id="name" name="name" required
            [(ngModel)]="product.name" #name="ngModel">

            <div [hidden]="name.valid || name.pristine" class="alert alert-danger">
                Name is required
            </div>

        </div>

        <div class="form-group">

            <label for="price">Phone number</label>

            <input type="text" class="form-control" id="price" name="price" required
            [(ngModel)]="product.price" minlength="2" maxlength="8" #price="ngModel">

            <div [hidden]="price.valid || price.pristine" class="alert alert-danger">
                Price should be b/w 2 and 6 digits.
            </div>

        </div>

        <div class="form-group">

            <label for="price">Aadhar ID</label>

            <input type="text" class="form-control" id="iden" name="i" required
            [(ngModel)]="product.id" minlength="2" maxlength="9" #price="ngModel">

            <div [hidden]="price.valid || price.pristine" class="alert alert-danger">
                Price should be b/w 2 and 6 digits.
            </div>

        </div>

        <button [disabled]="!name.valid" type="submit" class="btn btn-primary" > Register </button>
    </form>

</div>

```

application.properties

```
spring.datasource.url=jdbc:mysql://localhost:3306/aadhar
spring.datasource.driver-className=com.mysql.cj.jdbc.Driver
spring.datasource.username=root
spring.datasource.password=1234
spring.jpa.hibernate.ddl-auto=update

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
#spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect

spring.jpa.show-sql=true

logging.level.org.hibernate.SQL=DEBUG
logging.level.org.hibernate.type=TRACE
```