**Angular 9 – Shopping list and recipe book app.**

1. Create a new angular project by using the command ng new [YourProjectName]
2. Install bootstrap by using the command npm install bootstrap@3, then include the following reference in the angular.json file under the styles array:

            "styles": [

              "node\_modules/bootstrap/dist/css/bootstrap.min.css",

              "src/styles.css"

            ]

1. Create a new header component with the command ng g component header.
2. Create the following components and arrange them in the following hierarchy:

A screenshot of a cell phone

Description automatically generated

1. In the app.component.html add the following:

<app-header (featureSelected)="onNavigate($event)"></app-header>

<div class="container">

  <div class="row">

    <div class="col-md-12">

      <app-recipes \*ngIf="loadedFeature === 'recipe'"></app-recipes>

      <app-shopping-list \*ngIf="loadedFeature !== 'recipe'"></app-shopping-list>

    </div>

  </div>

</div>

1. In the app.component.html add the following:

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

@Component({

  selector: 'app-root',

  templateUrl: './app.component.html',

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'TutorialApp';

  loadedFeature = 'recipe';

  onNavigate(feature:  string){

    this.loadedFeature = feature;

  }

}

1. In the recipes.component.html add the following:

<div class="div">

  <div class="col-md-5">

    <app-recipe-list></app-recipe-list>

  </div>

  <div class="col-md-7">

    <app-recipe-detail></app-recipe-detail>

  </div>

</div>

1. In the recipe-list.component.html add the following:

<div class="row">

  <div class="col-xs-12">

    <button class="btn btn-success">New Recipe</button>

  </div>

</div>

<hr>

<div class="row">

  <div class="col-xs-12">

    <app-recipe-item  \*ngFor="let recipeEl of recipes" [recipe]="recipeEl"></app-recipe-item>

  </div>

</div>

1. In the shopping-list.component.html add the following:

<div class="row">

  <div class="col-xs-10">

    <app-shopping-edit></app-shopping-edit>

    <hr>

    <p>The list</p>

  </div>

</div>

1. In the Header.component.html add the following:

<nav class="navbar navbar-default">

  <div class="container-fluid">

    <div class="navbar-header">

      <a href="#" class="navbar-brand">Recipe Book</a>

    </div>

    <div class="collapse navbar-collapse">

      <ul class="nav navbar-nav">

        <li><a href="#" (click)="onSelect('recipe')">Recipes</a></li>

        <li><a href="#" (click)="onSelect('shopping-list')">Shopping List</a></li>

      </ul>

      <ul class="nav navbar-nav navbar-right">

        <li class ="dropdown">

          <a href="#" class="dropdown-toggle" role="button">Manage <span class="caret"></span></a>

          <ul class="dropdown-menu">

            <li><a href="#">Save Data</a></li>

            <li><a href="#">Fetch Data</a></li>

          </ul>

        </li>

      </ul>

    </div>

  </div>

</nav>

1. In the Header.component.ts add the following:

import { Component, OnInit, EventEmitter, Output } from '@angular/core';

@Component({

  selector: 'app-header',

  templateUrl: './header.component.html',

  styleUrls: ['./header.component.css']

})

export class HeaderComponent implements OnInit {

  @Output() featureSelected = new EventEmitter<string>();

  ngOnInit() {

  }

  onSelect(feature: string){

    this.featureSelected.emit(feature);

  }

}

1. Create a new file called recipe.model.ts in the recipes folder and add the following code:

export class Recipe {

  public name: string;

  public description: string;

  public imagePath: string;

  constructor(name: string, desc: string, imagePath: string){

    this.name = name;

    this.description = desc;

    this.imagePath = imagePath;

  }

}

1. In the recipe-list.component.ts add the following:

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

import { Recipe } from '../recipe.model';

@Component({

  selector: 'app-recipe-list',

  templateUrl: './recipe-list.component.html',

  styleUrls: ['./recipe-list.component.css']

})

export class RecipeListComponent implements OnInit {

  recipes: Recipe[] = [

    new Recipe('Test Recipe', 'Test Desc', 'https://bigmemes.funnyjunk.com/comments/Ketchup+sandwich+\_e98488aa93a069fff0bf4ddc3c806191.jpg')

  ];

  constructor() { }

  ngOnInit() {

  }

}

1. In the recipe-list.component.html add the following:

<div class="row">

  <div class="col-xs-12">

    <button class="btn btn-success">New Recipe</button>

  </div>

</div>

<hr>

<div class="row">

  <div class="col-xs-12">

    <a href="#" class="list-group-item clearfix" \*ngFor="let recipe of recipes">

      <div class="pull-left">

        <h4 class="list-group-item-heading">{{ recipe.name }}</h4>

        <p class="list-group-item-text">{{ recipe.description }}</p>

      </div>

      <span class="pull-right">

        <img src="{{ recipe.imagePath }}" alt="{{ recipe.name }}" class="img-responsive" style="max-height: 50px;"/>

      </span>

    </a>

    <app-recipe-item></app-recipe-item>

  </div>

</div>

1. In the recipe-item.component.html add the following:

<a href="#" class="list-group-item clearfix">

  <div class="pull-left">

    <h4 class="list-group-item-heading">{{ recipe.name }}</h4>

    <p class="list-group-item-text">{{ recipe.description }}</p>

  </div>

  <span class="pull-right">

    <img src="{{ recipe.imagePath }}" alt="{{ recipe.name }}" class="img-responsive" style="max-height: 50px;"/>

  </span>

</a>

1. In the recipe-item.component.ts add the following:

import { Component, OnInit, Input } from '@angular/core';

import { Recipe } from '../../recipe.model';

@Component({

  selector: 'app-recipe-item',

  templateUrl: './recipe-item.component.html',

  styleUrls: ['./recipe-item.component.css']

})

export class RecipeItemComponent implements OnInit {

  @Input() recipe: Recipe;

  constructor() { }

  ngOnInit() {

  }

}

1. In the recipe-detail.component.html add the following:

<div class="row">

  <div class="col-xs-12">

    <img src="" alt="" class="img-responsive">

  </div>

  <div class="row">

    <div class="col-xs-12">

      <h1>Recipe Name</h1>

    </div>

  </div>

  <div class="row">

    <div class="col-xs-12">

      <div class="btn-group">

        <button type="button" class="btn btn-primary dropdown-toggle">Manage Recipe <span class="caret"></span></button>

        <ul class="dropdown-menu">

          <li><a href="#">To shopping List</a></li>

          <li><a href="#">Edit Recipe</a></li>

          <li><a href="#">Delete Recipe</a></li>

        </ul>

      </div>

    </div>

  </div>

  <div class="row">

    <div class="col-xs-12">

      Description

    </div>

  </div>

  <div class="row">

    <div class="col-xs-12">

      Ingredients

    </div>

  </div>

</div>

1. In the shopping-list.component.html add the following:

<div class="row">

  <div class="col-xs-10">

    <app-shopping-edit></app-shopping-edit>

    <hr>

    <ul class="list-group">

      <a class="list-group-item" style="cursor: pointer"></a>

    </ul>

  </div>

</div>

1. Create a new app/shared folder, then create a new Ingredient model:

export class Ingridient {

  constructor(public name: string, public amount: number){}

}

1. Add the shopping-list.component.ts add the following code:

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

import { Ingridient } from '../shared/ingridient.model';

@Component({

  selector: 'app-shopping-list',

  templateUrl: './shopping-list.component.html',

  styleUrls: ['./shopping-list.component.css']

})

export class ShoppingListComponent implements OnInit {

  ingridients: Ingridient[] = [

    new Ingridient("Buns", 5),

    new Ingridient("Ketchup", 5)

  ];

  constructor() { }

  ngOnInit() {

  }

}

1. Add the shopping-edit.component.ts add the following code:

<div class="row">

  <div class="col-xs-12">

    <form>

      <div class="row">

        <div class="col-sm-5 form-group">

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

          <input type="text" id="name" class="form-control">

        </div>

        <div class="col-sm-2 form-group">

          <label for="amount">Amount</label>

          <input type="number" id="amount" class="form-control">

        </div>

      </div>

      <div class="row">

        <div class="col-xs-12">

          <button class="btn btn-success" type="submit">Add</button>

          <button class="btn btn-danger" type="button">Delete</button>

          <button class="btn btn-primary" type="button">Clear</button>

        </div>

      </div>

    </form>

  </div>

</div>