Final Project Kitchen Stories Specifications

Class: Develop a Web Application using frontend stack

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Application: Kitchen Stories

Date: 6/27/2023

# Kitchen Stories

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## Project Description:

- This project focuses on making an ecommerce portal for an online food retailer using Angular.

### Technologies used:

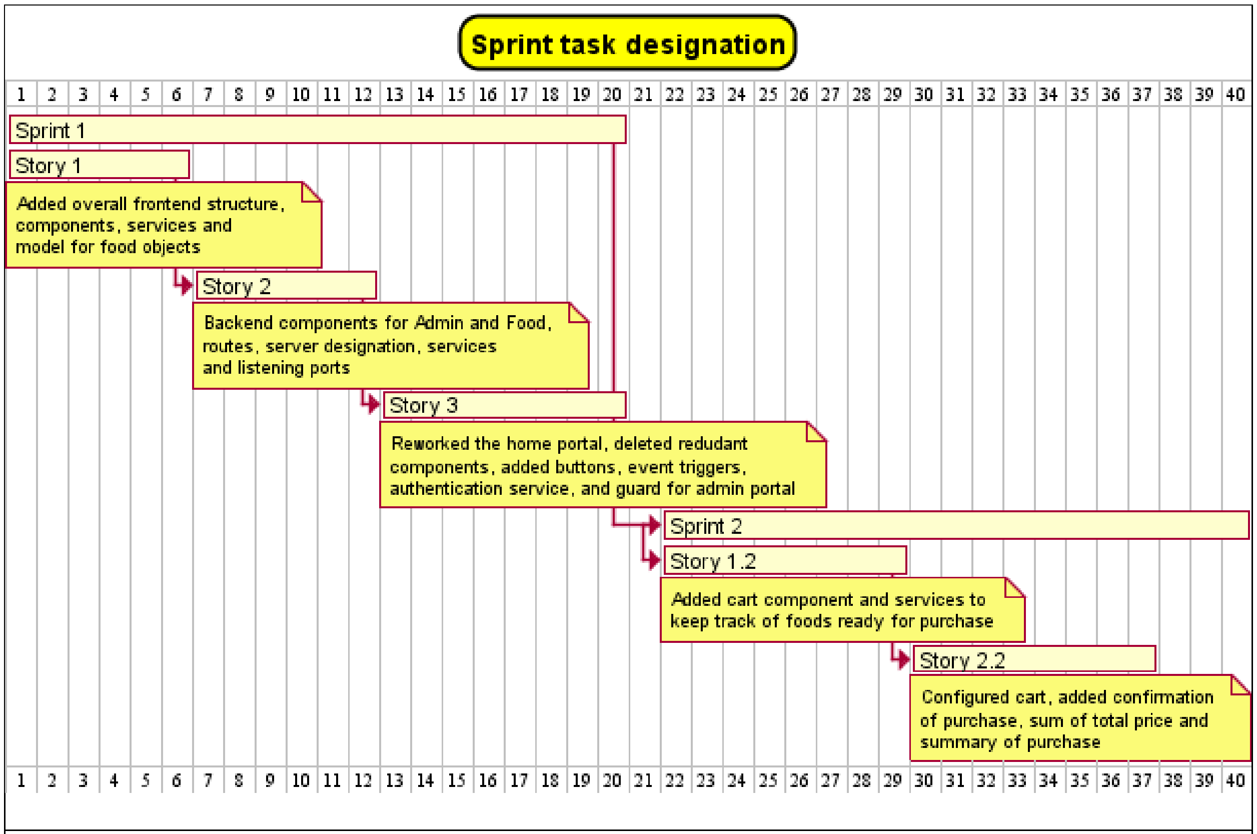
- Angular allowing for quick development of web applications as well as templates
- Bootstrap for quick front end development, as well as templates for html tags and elements
- Nodemon for backend deployments, and automatic restarts the node application whenever changes are made
- Node JS allows instance and cross platform development between front and server-side applications

### Unique Selling Points:

This application provides the following features:

- Scalable features, any food item can be directly added, edited or deleted to the site through the admin portal
- Adding any component is made easy through the main application, additional features can be implemented by just editing the food component to increase variety of functions.

## Sprint breakdown

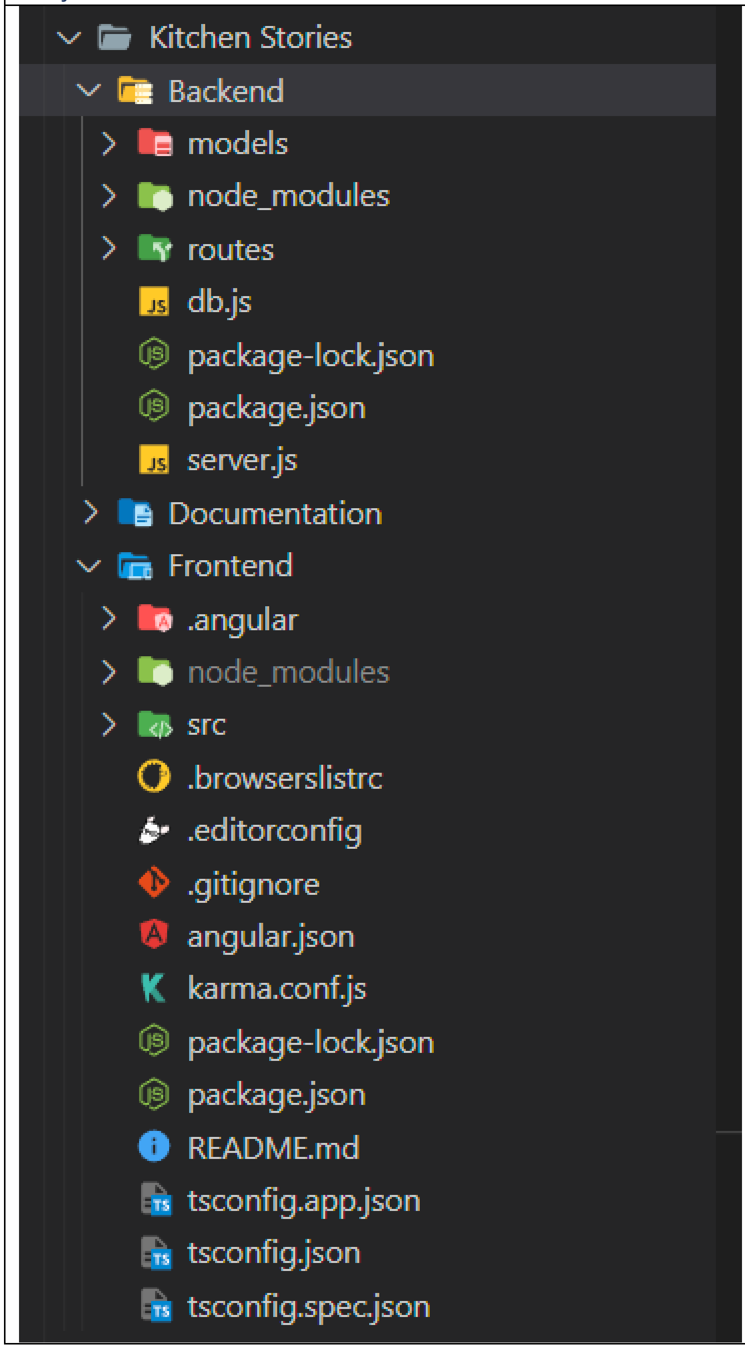


PlantUML Sprint Schedule

## Program Details:

## GitHub:

https://github.com/ProgrammedPeinado/PracticeJava/tree/main/Simplilearn/Final%20Projects/Kitchen%20Stories

| Project Folder |
|---|
|  |

```
Kitchen Stories
  Backend
    models
    node_modules
    routes
    db.js
    package-lock.json
    package.json
    server.js
  Documentation
  Frontend
    .angular
    node_modules
    src
    .browserslistrc
    .editorconfig
    .gitignore
    angular.json
    karma.conf.js
    package-lock.json
    package.json
    README.md
    tsconfig.app.json
    tsconfig.json
    tsconfig.spec.json
```

## Programming:

```
import { Injectable } from '@angular/core';

import { Observable, of } from 'rxjs';
import { tap, delay } from 'rxjs/operators';
import { Admin } from '../appModels/admin.model';

@Injectable({
   providedIn: 'root'
})
export class AuthService {

  isUserLoggedIn: boolean = false;

  login(userName: string, password: string): Observable<boolean>
  {
      console.log(userName);
      console.log(password);
      this.isUserLoggedIn = userName == 'admin' && password == 'admin';
      localStorage.setItem('isUserLoggedIn', this.isUserLoggedIn ? "true" :
"false");

      return of(this.isUserLoggedIn).pipe(
      delay(1000),
      tap(val =>
      {
        console.log("Is User Authentication is successful: " + val);
      }));
  }

  logout(): void
  {
  this.isUserLoggedIn = false;
      localStorage.removeItem('isUserLoggedIn');
  }

  constructor() { }
}
```

Authentication Service

```
import { Injectable } from '@angular/core';
import { Food } from '../appModels/food.model';

@Injectable({
  providedIn: 'root'
})
export class CartService
{
  foods: Food[] = [];

  addToCart(food: Food)
  {
    console.log(this.foods);
    this.foods.push(food);
  }

  getItems()
  {
    return this.foods;
  }

  clearCart()
  {
    this.foods = [];
    return this.foods;
  }
}
```

Cart Service

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Food } from '../appModels/food.model'

@Injectable({
  providedIn: 'root'
})
export class FoodService {
  uri = 'http://localhost:4000';

  constructor(private http : HttpClient) { }

  addFood(food:Food)
  {
    return this.http.post(`${this.uri}/foods/add`, food);
  }

  addFoodI(name: String, category: String, tag: String, price: String)
  {
    const food =
    {
      name: name,
      category: category,
      tag: tag,
      price: price
    }
    return this.http.post(`${this.uri}/foods/add`, food);
  }

  getFoods()
  {
    return this.http.get(`${this.uri}/foods`);
  }

  getFoodList()
  {
    return this.http.get<Food[]>(`${this.uri}/foods`);
  }

  getFoodbyId(id: String)
  {
    return this.http.get(`${this.uri}/foods/${id}`);
  }

  updateFood(food: Food)
  {
    return this.http.post(`${this.uri}`, food);
  }

  updateFoodI(id, name: String, category: String, tag: String, price: String)
  {
    const food =
    {
      name: name,
      category: category,
      tag: tag,
      price: price
    }
    return this.http.post(`${this.uri}/foods/update/${id}`, food);
  }

  deleteFood(id: string)
  {
    return this.http.get(`${this.uri}/foods/delete/${id}`);
  }
}
```
Food Service

Components:

```
import { Component, OnInit } from '@angular/core';
import { CartService } from '../appServices/cart.service';
import { Router, RouterModule } from '@angular/router';

@Component({
  selector: 'app-cart',
  templateUrl: './cart.component.html',
  styleUrls: ['./cart.component.css']
})
export class CartComponent
{

  foods = this.cartService.getItems();
  displayedColumns = ['name', 'price'];
  totalPrice = this.getCurrentTotal();

  constructor(private cartService : CartService, private router : Router)
  {
  }

  getCurrentTotal(): Number
  {
    let sum: number = 0;
    this.cartService.getItems().forEach(i => sum+= Number(i.price));;
    return Math.round(sum*100)/100;
  }

  purchaseConfirm()
  {
    window.alert("Thank you for your purchase!");
    this.router.navigate(['/']);
  }
}
```
Cart Component

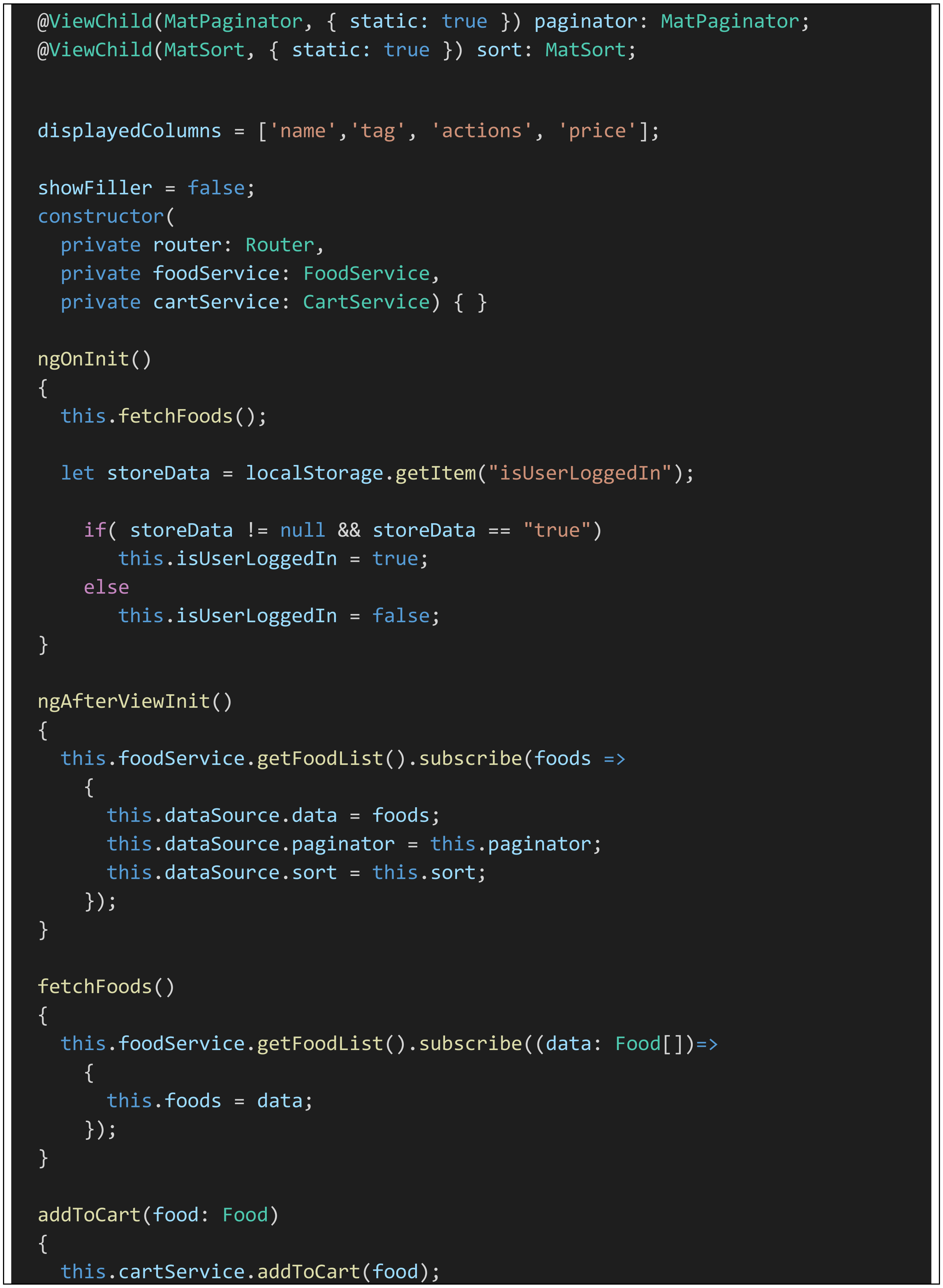
```
import { Component, OnInit } from '@angular/core';
import { FormGroup, FormBuilder, Validators } from '@angular/forms';
import { Router } from '@angular/router';
import { FoodService } from '../appServices/food.service';

import { AuthGuard } from '../auth.guard';
import { AuthService } from '../appServices/auth.service';

@Component({
  selector: 'app-create',
  templateUrl: './create.component.html',
  styleUrls: ['./create.component.css']
})
export class CreateComponent implements OnInit {

  createForm: FormGroup;

  constructor(private foodService: FoodService, private fb: FormBuilder,
private router: Router) {
    this.createForm = this.fb.group({
      name: ['', Validators.required],
      category: '',
      tag: '',
      price: ''
    });
  }

  addFood(name, category, tag, price) {
    this.foodService.addFoodI(name, category, tag, price).subscribe(() =>
    {
      this.router.navigate(['/list']);
    });
  }

  ngOnInit() {
  }

}
```

Add Food component for Admin side

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

import { MatSnackBar } from '@angular/material/snack-bar';

import { FoodService } from '../appServices/food.service';
import { Food } from '../appModels/food.model';
import { AuthGuard } from '../auth.guard';
import { AuthService } from '../appServices/auth.service';

@Component({
  selector: 'app-edit',
  templateUrl: './edit.component.html',
  styleUrls: ['./edit.component.css']
})

export class EditComponent implements OnInit
{

  id: String;
  food: any = {};
  updateForm: FormGroup;

  constructor(private foodService: FoodService, private router: Router, private
route: ActivatedRoute, private snackBar: MatSnackBar, private fb: FormBuilder)
  {
    this.createForm();
  }

  createForm()
  {
    this.updateForm = this.fb.group({
      name: ['', Validators.required],
      category: '',
      tag: '',
      price: ''
    });
  }

  ngOnInit(): void
  {
      this.route.params.subscribe(params =>
      {
        this.id = params.id;
        this.foodService.getFoodbyId(this.id).subscribe(res =>
          {
            this.food = res;
            this.updateForm.get('name').setValue(this.food.name);
            this.updateForm.get('category').setValue(this.food.category);
            this.updateForm.get('tag').setValue(this.food.tag);
            this.updateForm.get('price').setValue(this.food.price);
          });
      });
  }

  updateFood(name, category, tag, price)
  {
    this.foodService.updateFoodI(this.id, name, category, tag,
price).subscribe(()=>
    {
      this.snackBar.open('Food updated successfully', 'OK', {duration: 3000})
    })
  }
}
```

Edit Component for Admin side

```
import { AfterViewInit, Component, OnInit, ViewChild} from '@angular/core';
import { Router } from '@angular/router';
import { Food } from '../appModels/food.model';
import { FoodService } from '../appServices/food.service';
import { NgIf } from '@angular/common';
import { LoginComponent } from '../authentication/login/login.component';
import { AuthGuard } from '../auth.guard';
import { AuthService } from '../appServices/auth.service';
import { CartService } from '../appServices/cart.service';
import { MatTableDataSource, MatTableModule, _MatTableDataSource } from
'@angular/material/table';
import { MatInputModule } from '@angular/material/input';
import { MatFormField } from '@angular/material/form-field';
import { DataSource } from '@angular/cdk/collections';
import { MatSort } from '@angular/material/sort';
import { MatPaginator, MatPaginatorModule } from '@angular/material/paginator';

@Component({
  selector: 'app-food',
  templateUrl: './food.component.html',
  styleUrls: ['./food.component.css'],
})

export class FoodComponent
{
  isUserLoggedIn = false;
  foods: Food[];
  dataSource = new MatTableDataSource<Food>();
  resultsLength = 0;
```



```
@ViewChild(MatPaginator, { static: true }) paginator: MatPaginator;
@ViewChild(MatSort, { static: true }) sort: MatSort;


displayedColumns = ['name','tag', 'actions', 'price'];

showFiller = false;
constructor(
  private router: Router,
  private foodService: FoodService,
  private cartService: CartService) { }

ngOnInit()
{
  this.fetchFoods();

  let storeData = localStorage.getItem("isUserLoggedIn");

    if( storeData != null && storeData == "true")
       this.isUserLoggedIn = true;
    else
       this.isUserLoggedIn = false;
}

ngAfterViewInit()
{
  this.foodService.getFoodList().subscribe(foods =>
    {
      this.dataSource.data = foods;
      this.dataSource.paginator = this.paginator;
      this.dataSource.sort = this.sort;
    });
}

fetchFoods()
{
  this.foodService.getFoodList().subscribe((data: Food[])=>
    {
      this.foods = data;
    });
}

addToCart(food: Food)
{
  this.cartService.addToCart(food);
```

```
    window.alert('Your product has been added to the cart!');
  }

  applyFilter(event: Event)
  {
    const filterValue = (event.target as HTMLInputElement).value;
    this.dataSource.filter = filterValue.trim().toLowerCase();
  }
}
```

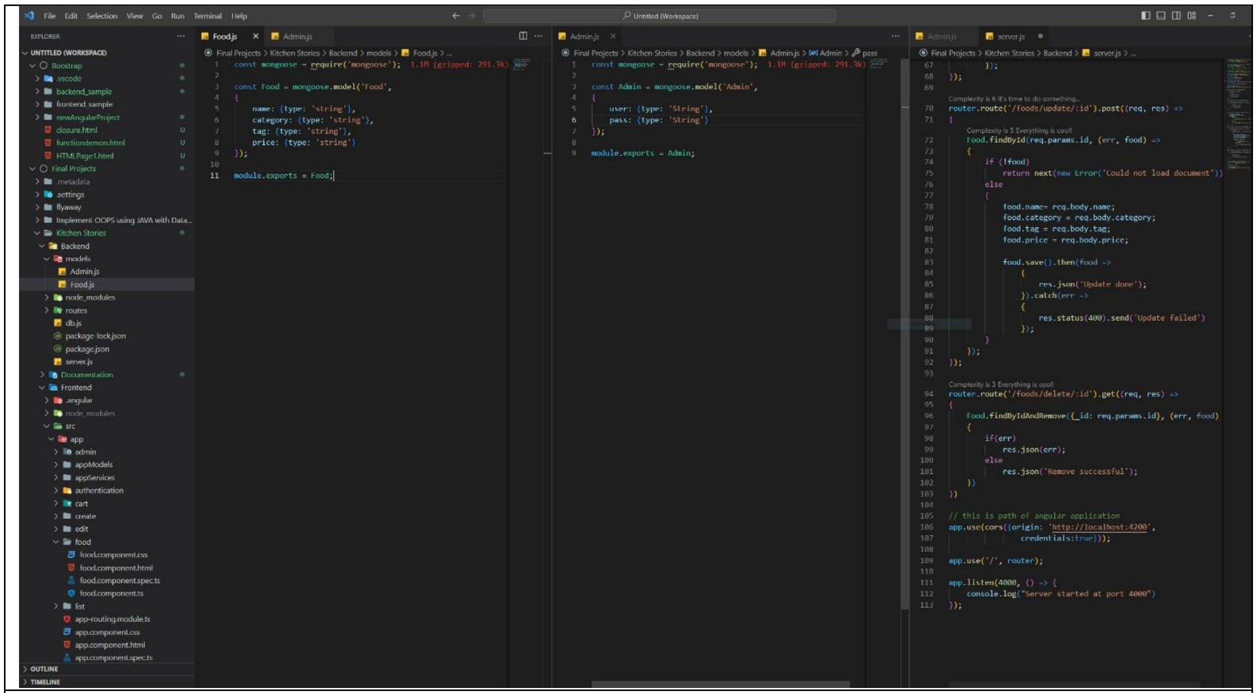
Food Component, contains list of foods for client side view, search, admin login form

```
//Remember to use nodemon server.js to start the connection
const express = require('express');
const bodyParser = require('body-parser');


//for api requests from angular app cors module needs to be installed and
imported here.
const cors = require('cors')
const mongoose = require('./db.js')

// here mongoose is imported for database file and not package.json file

//need routes to be imported here.
const routes = require('./routes/routes.js');
//const router = require('./routes/routes.js');

const Food = require('./models/Food.js');
const Admin = require( './models/Admin.js');

const app = express();
const router = express.Router();

app.use(bodyParser.json());

/*
app.use((req, res, next) =>
{
    res.header('Access-Control-Allow-Origin', '*');
    res.header('Access-Control-Allow-Headers', 'Origin, X-Requested-With,
Content-Type, Accept');
    res.header('Access-Control-Allow-Methods', 'OPTIONS, GET, POST,
PUT,DELETE');
    if('OPTIONS' == req.method)
    {
        res.sendStatus(200);
    }
    else
    {
        console.log(`${req.ip} ${req.method} ${req.url}`);
        next();
    }
});
 */

mongoose.connect('mongodb://127.0.0.1:27017/kitchen_stories');

const connection = mongoose.connection;

connection.once('open', () =>
{ console.log('MongoDB database connection established successfully.')}
);

router.route('/foods').get((req,res) =>
{
    Food.find((err, food) =>
    {
    if (err)
        console.log(err);
    else
        res.json(food);
    });
});

router.route('/foods/:id').get((req,res) =>
{
    Food.findById(req.params.id, (err, food) =>
    {
        if (err)
            console.log(err);
        else
            res.json(food);
    });
});


router.route('/foods/add/').post((req, res) =>
{
    console.log(req.body);
    let food = new Food(req.body);
    food.save()
        .then(food =>
        {
            res.status(200).json({'food':'Added successfully'});
        })
        .catch(err =>
        {
            res.status(400).send('Failed to create');
        });
});

router.route('/foods/update/:id').post((req, res) =>
{
    Food.findById(req.params.id, (err, food) =>
    {
        if (!food)
            return next(new Error('Could not load document'));
        else
        {
            food.name= req.body.name;
            food.category = req.body.category;
            food.tag = req.body.tag;
            food.price = req.body.price;

            food.save().then(food =>
                {
                    res.json('Update done');
                }).catch(err =>
                {
                    res.status(400).send('Update failed')
                });
        }
    });
});

router.route('/foods/delete/:id').get((req, res) =>
{
    Food.findByIdAndRemove({_id: req.params.id}, (err, food) =>
    {
        if(err)
            res.json(err);
        else
            res.json('Remove successful');
    })
```

```
})

// this is path of angular application
app.use(cors({origin: 'http://localhost:4200',
                credentials:true}));

app.use('/', router);

app.listen(4000, () => {
    console.log("Server started at port 4000")
});
```

Server routing

## Screenshots:

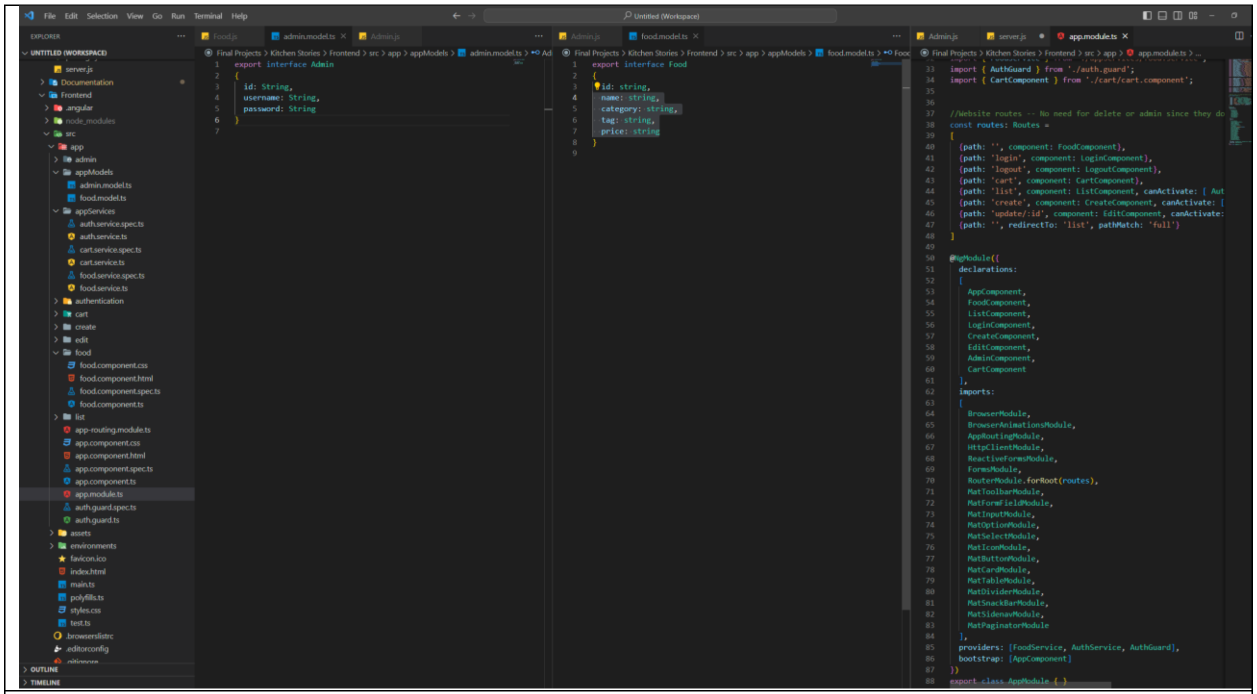


```javascript
const mongoose = require('mongoose');  1.1M (gzipped: 291.3k)

const Food = mongoose.model('Food',
{
    name: {type: 'string'},
    category: {type: 'string'},
    tag: {type: 'string'},
    price: {type: 'string'}
});

module.exports = Food;
```

```javascript
const mongoose = require('mongoose');  1.1M (gzipped: 291.3k)

const Admin = mongoose.model('Admin',
{
    user: {type: 'String'},
    pass: {type: 'String'}
});

module.exports = Admin;
```

```javascript
        });
});

Complexity is 6 It's time to do something...
router.route('/foods/update/:id').post((req, res) =>
{
    Complexity is 5 Everything is cool!
    Food.findById(req.params.id, (err, food) =>
    {
        if (!food)
            return next(new Error('Could not load document'))
        else
        {
            food.name= req.body.name;
            food.category = req.body.category;
            food.tag = req.body.tag;
            food.price = req.body.price;

            food.save().then(food =>
                {
                    res.json('Update done');
                }).catch(err =>
                {
                    res.status(400).send('Update failed')
                });
        }
    });
});

Complexity is 3 Everything is cool!
router.route('/foods/delete/:id').get((req, res) =>
{
    Food.findByIdAndRemove({_id: req.params.id}, (err, food)
    {
        if(err)
            res.json(err);
        else
            res.json('Remove successful');
    })
})

// this is path of angular application
app.use(cors({origin: 'http://localhost:4200',
                credentials:true}));

app.use('/', router);

app.listen(4000, () => {
    console.log("Server started at port 4000")
});
```

Backend - Food, Admin and Server.js

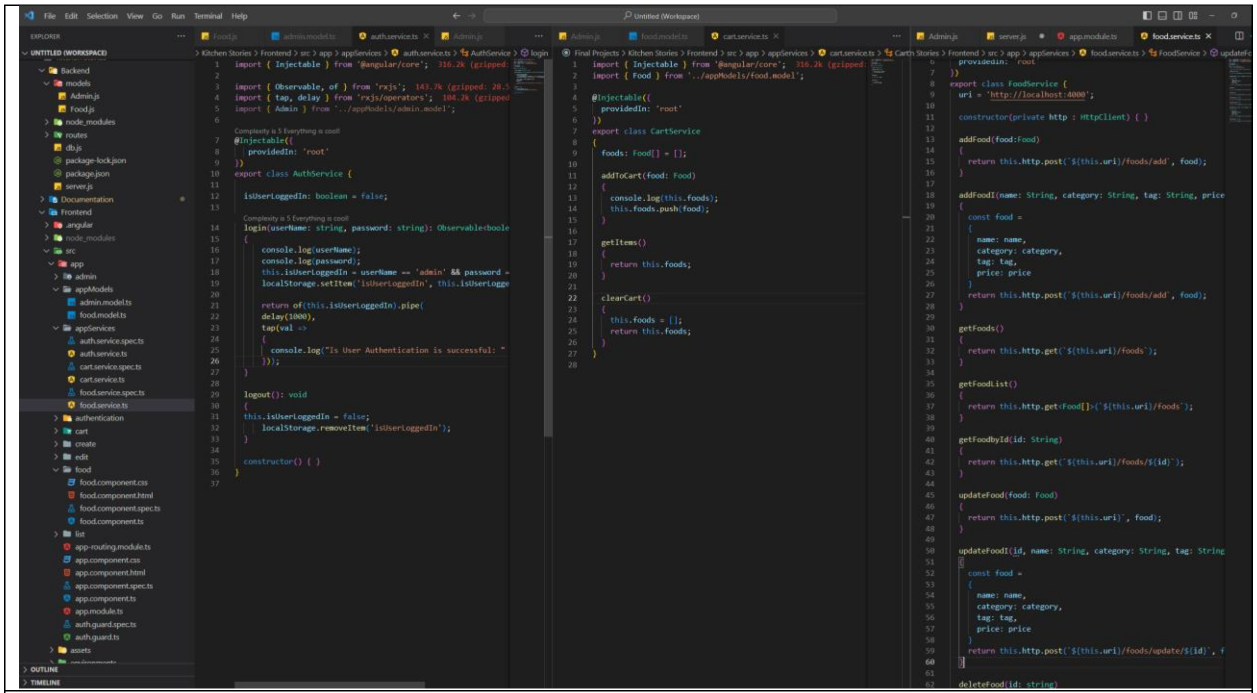


```typescript
export interface Admin
{
  id: String,
  username: String,
  password: String
}
```

```typescript
export interface Food
{
 id: string,
 name: string,
 category: string,
 tag: string,
 price: string
}
```

```typescript
import { AuthGuard } from './auth.guard';
import { CartComponent } from './cart/cart.component';


//Website routes -- No need for delete or admin since they do
const routes: Routes =
[
  {path: '', component: FoodComponent},
  {path: 'login', component: LoginComponent},
  {path: 'logout', component: LogoutComponent},
  {path: 'cart', component: CartComponent},
  {path: 'list', component: ListComponent, canActivate: [ Aut
  {path: 'create', component: CreateComponent, canActivate: [
  {path: 'update/:id', component: EditComponent, canActivate:
  {path: '', redirectTo: 'list', pathMatch: 'full'}
]

@NgModule({
  declarations:
  [
    AppComponent,
    FoodComponent,
    ListComponent,
    LoginComponent,
    CreateComponent,
    EditComponent,
    AdminComponent,
    CartComponent
  ],
  imports:
  [
    BrowserModule,
    BrowserAnimationsModule,
    AppRoutingModule,
    HttpClientModule,
    ReactiveFormsModule,
    FormsModule,
    RouterModule.forRoot(routes),
    MatToolbarModule,
    MatFormFieldModule,
    MatInputModule,
    MatOptionModule,
    MatSelectModule,
    MatIconModule,
    MatButtonModule,
    MatCardModule,
    MatTableModule,
    MatDividerModule,
    MatSnackBarModule,
    MatSidenavModule,
    MatPaginatorModule
  ],
  providers: [FoodService, AuthService, AuthGuard],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

Frontend – Food, Admin and AppModule

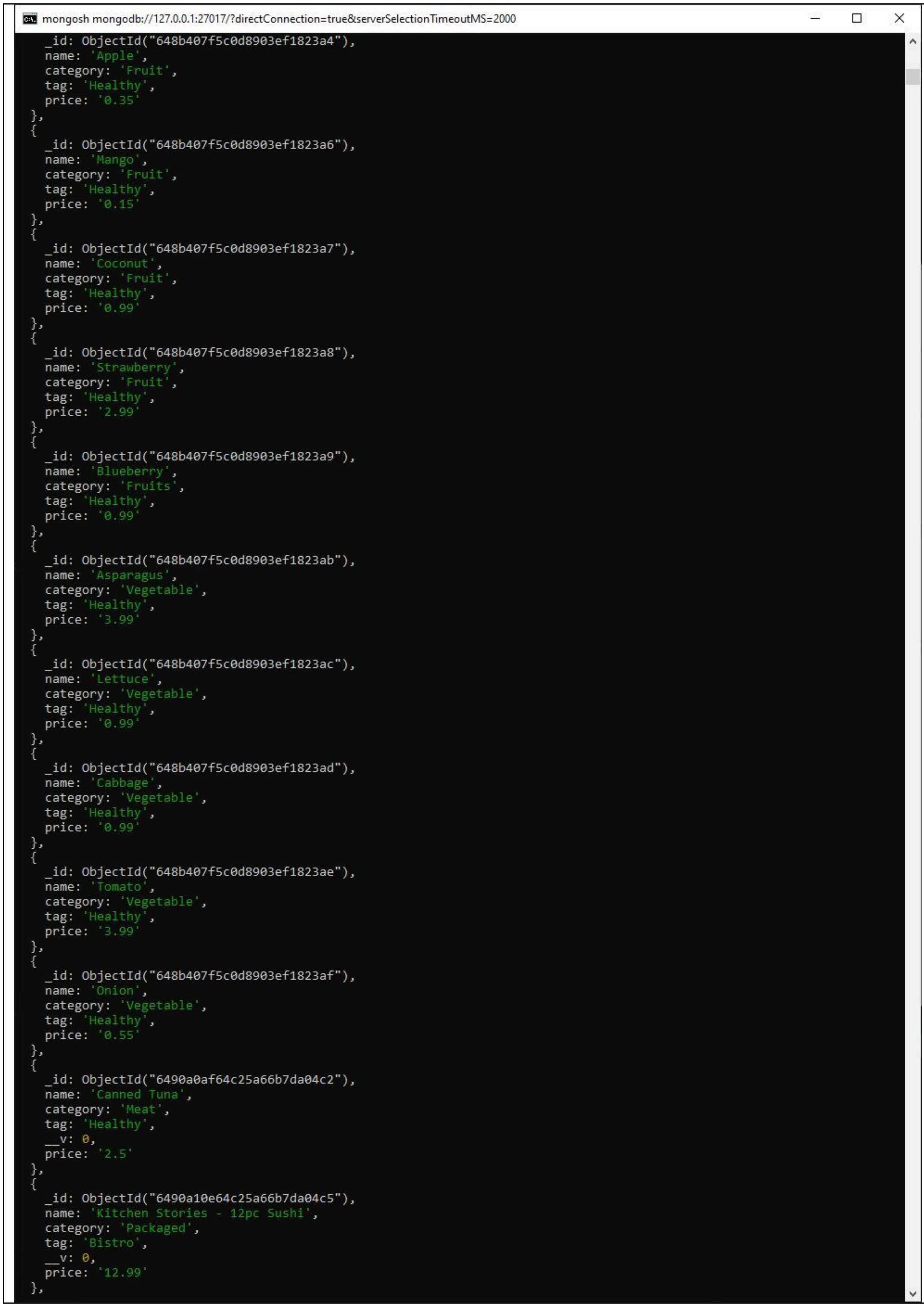


```
import { Injectable } from '@angular/core';  316.2k (gzipped:

import { Observable, of } from 'rxjs';  143.7k (gzipped: 28.5
import { tap, delay } from 'rxjs/operators';  104.2k (gzipped
import { Admin } from '../appModels/admin.model';

Complexity is 5 Everything is cool!
@Injectable({
  providedIn: 'root'
})
export class AuthService {

  isUserLoggedIn: boolean = false;

  Complexity is 5 Everything is cool!
  login(userName: string, password: string): Observable<boole
  {
      console.log(userName);
      console.log(password);
      this.isUserLoggedIn = userName == 'admin' && password =
      localStorage.setItem('isUserLoggedIn', this.isUserLogge

      return of(this.isUserLoggedIn).pipe(
      delay(1000),
      tap(val =>
      {
        console.log("Is User Authentication is successful: "
      }));
  }

  logout(): void
  {
  this.isUserLoggedIn = false;
      localStorage.removeItem('isUserLoggedIn');
  }

  constructor() { }
}
```

```
import { Injectable } from '@angular/core';  316.2k (gzipped:
import { Food } from '../appModels/food.model';

@Injectable({
  providedIn: 'root'
})
export class CartService
{
  foods: Food[] = [];

  addToCart(food: Food)
  {
    console.log(this.foods);
    this.foods.push(food);
  }

  getItems()
  {
    return this.foods;
  }

  clearCart()
  {
    this.foods = [];
    return this.foods;
  }
}
```

```
  providedIn: 'root'
})
export class FoodService {
  uri = 'http://localhost:4000';

  constructor(private http : HttpClient) { }

  addFood(food:Food)
  {
    return this.http.post(`${this.uri}/foods/add`, food);
  }

  addFoodI(name: String, category: String, tag: String, price
  {
    const food =
    {
      name: name,
      category: category,
      tag: tag,
      price: price
    }
    return this.http.post(`${this.uri}/foods/add`, food);
  }

  getFoods()
  {
    return this.http.get(`${this.uri}/foods`);
  }

  getFoodList()
  {
    return this.http.get<Food[]>(`${this.uri}/foods`);
  }

  getFoodbyId(id: String)
  {
    return this.http.get(`${this.uri}/foods/${id}`);
  }

  updateFood(food: Food)
  {
    return this.http.post(`${this.uri}`, food);
  }

  updateFoodI(id, name: String, category: String, tag: String
  {
    const food =
    {
      name: name,
      category: category,
      tag: tag,
      price: price
    }
    return this.http.post(`${this.uri}/foods/update/${id}`, f
  }

  deleteFood(id: string)
```

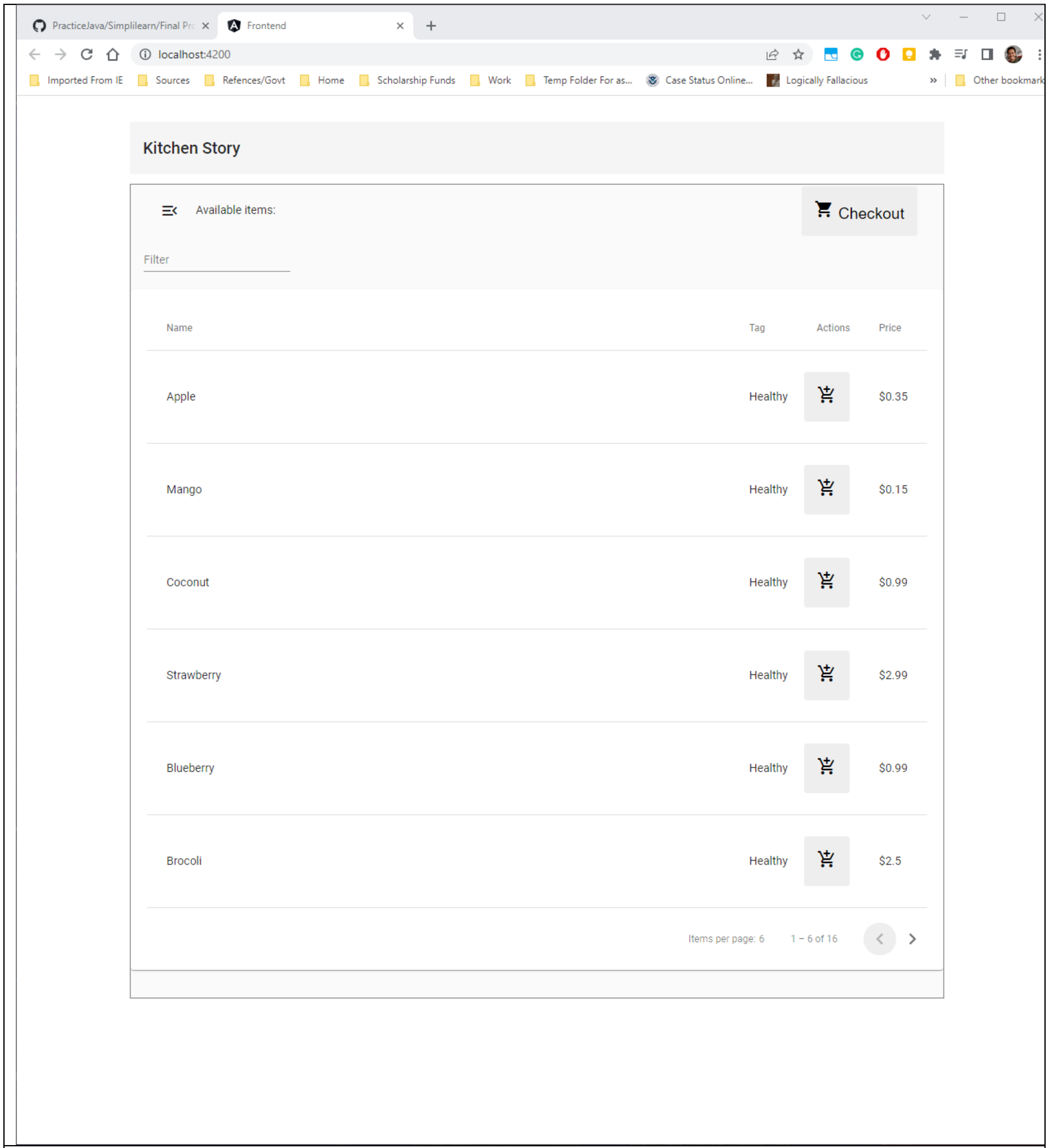
Authentication, Food and Cart Services



mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000

```
    _id: ObjectId("648b407f5c0d8903ef1823a4"),
    name: 'Apple',
    category: 'Fruit',
    tag: 'Healthy',
    price: '0.35'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823a6"),
    name: 'Mango',
    category: 'Fruit',
    tag: 'Healthy',
    price: '0.15'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823a7"),
    name: 'Coconut',
    category: 'Fruit',
    tag: 'Healthy',
    price: '0.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823a8"),
    name: 'Strawberry',
    category: 'Fruit',
    tag: 'Healthy',
    price: '2.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823a9"),
    name: 'Blueberry',
    category: 'Fruits',
    tag: 'Healthy',
    price: '0.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823ab"),
    name: 'Asparagus',
    category: 'Vegetable',
    tag: 'Healthy',
    price: '3.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823ac"),
    name: 'Lettuce',
    category: 'Vegetable',
    tag: 'Healthy',
    price: '0.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823ad"),
    name: 'Cabbage',
    category: 'Vegetable',
    tag: 'Healthy',
    price: '0.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823ae"),
    name: 'Tomato',
    category: 'Vegetable',
    tag: 'Healthy',
    price: '3.99'
  },
  {
    _id: ObjectId("648b407f5c0d8903ef1823af"),
    name: 'Onion',
    category: 'Vegetable',
    tag: 'Healthy',
    price: '0.55'
  },
  {
    _id: ObjectId("6490a0af64c25a66b7da04c2"),
    name: 'Canned Tuna',
    category: 'Meat',
    tag: 'Healthy',
    __v: 0,
    price: '2.5'
  },
  {
    _id: ObjectId("6490a10e64c25a66b7da04c5"),
    name: 'Kitchen Stories - 12pc Sushi',
    category: 'Packaged',
    tag: 'Bistro',
    __v: 0,
    price: '12.99'
  },
```

Database structure



Kitchen Story

Available items:

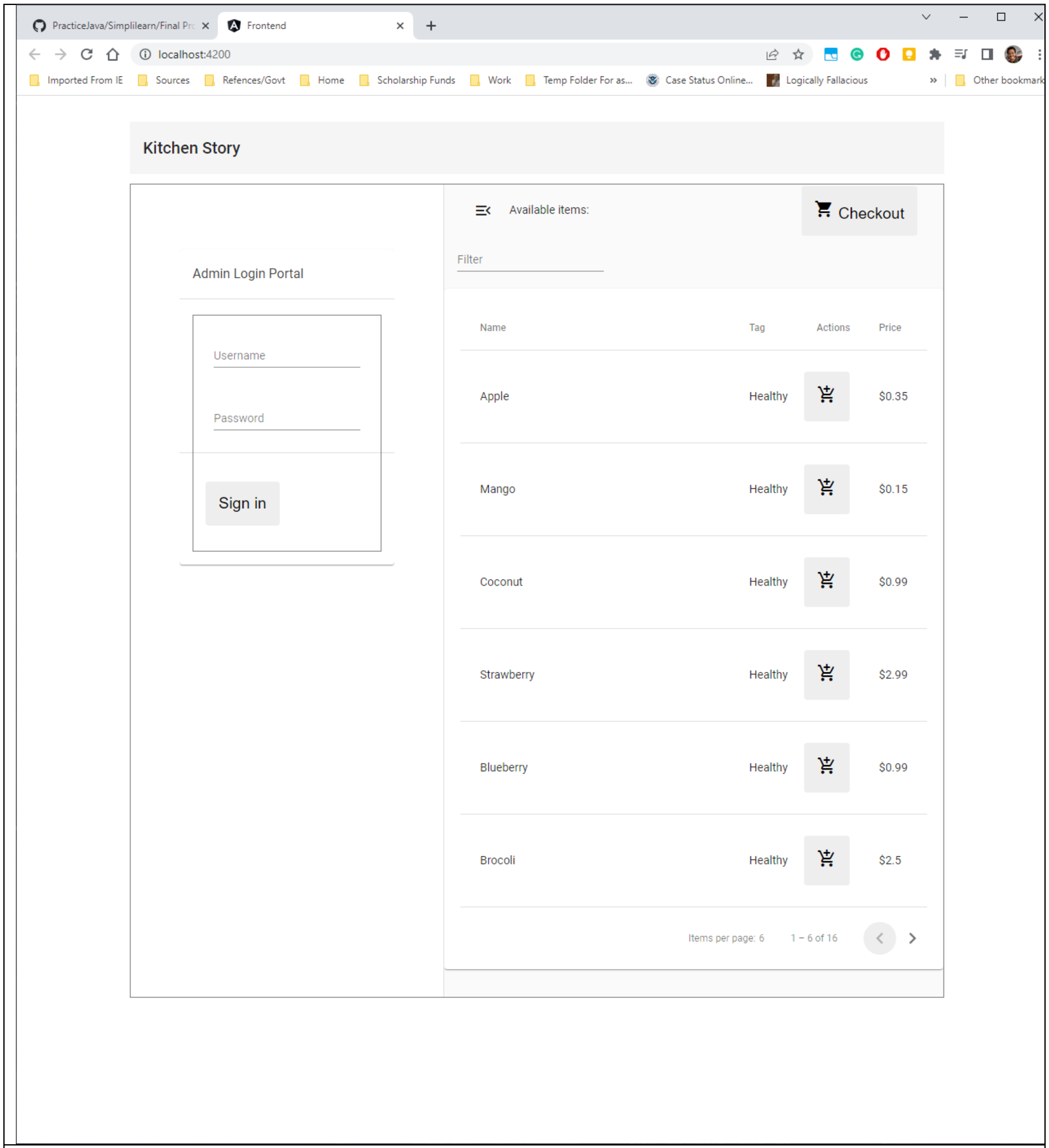
Checkout

Filter

| Name | Tag | Actions | Price |
|---|---|---|---|
| Apple | Healthy | | $0.35 |
| Mango | Healthy | | $0.15 |
| Coconut | Healthy | | $0.99 |
| Strawberry | Healthy | | $2.99 |
| Blueberry | Healthy | | $0.99 |
| Brocoli | Healthy | | $2.5 |

Items per page: 6 1 – 6 of 16

Food component



Kitchen Story

Admin Login Portal

Username

Password

Sign in

Available items:

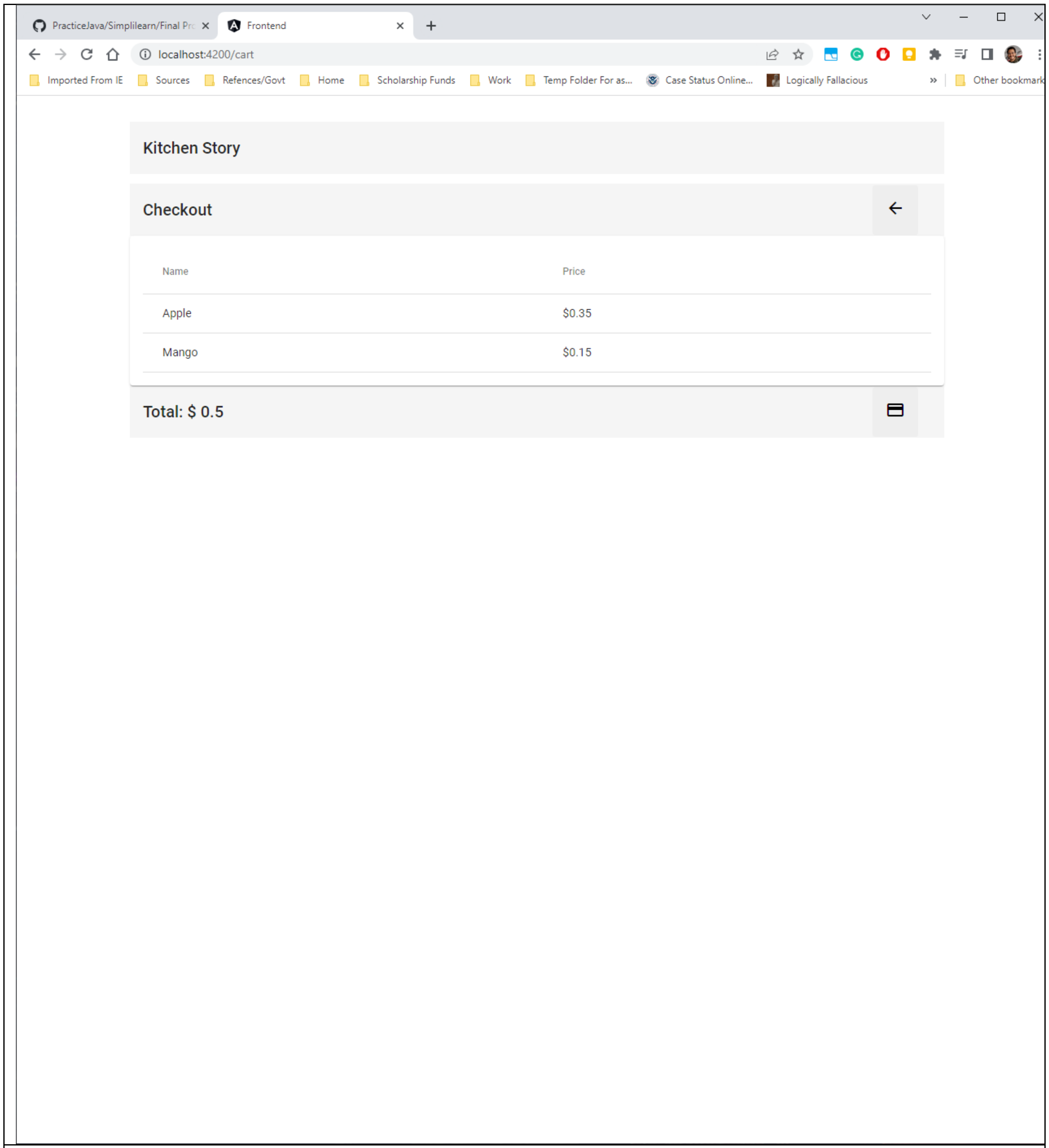
Checkout

Filter

| Name | Tag | Actions | Price |
|---|---|---|---|
| Apple | Healthy | | $0.35 |
| Mango | Healthy | | $0.15 |
| Coconut | Healthy | | $0.99 |
| Strawberry | Healthy | | $2.99 |
| Blueberry | Healthy | | $0.99 |
| Brocoli | Healthy | | $2.5 |

Items per page: 6 1 – 6 of 16

Food Component with login



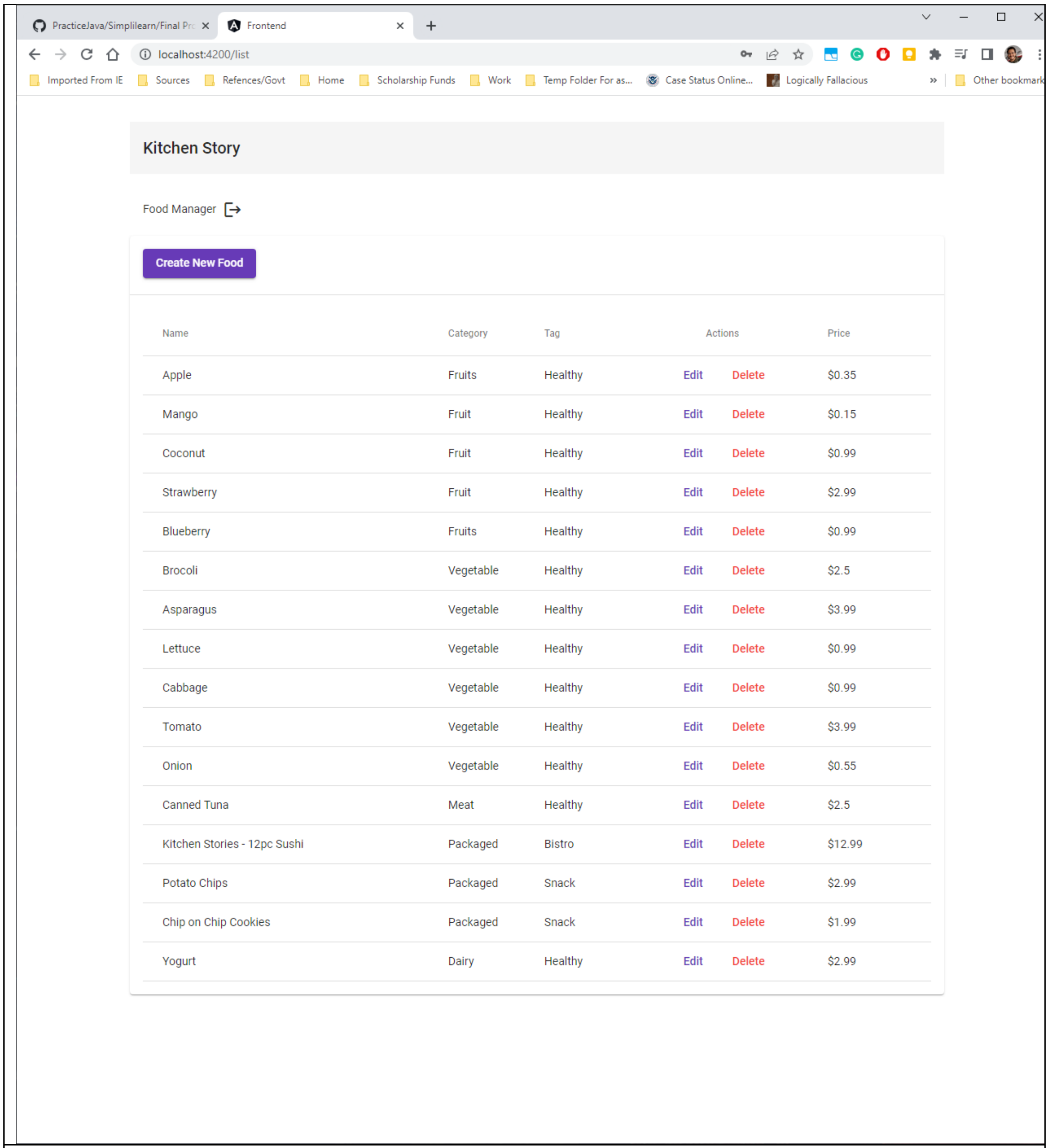
Kitchen Story

Checkout

| Name | Price |
|---|---|
| Apple | $0.35 |
| Mango | $0.15 |

Total: $ 0.5

Cart Component with summary of items, total price and checkout confirmation button



PracticeJava/Simplilearn/Final Pr

Frontend

localhost:4200/list

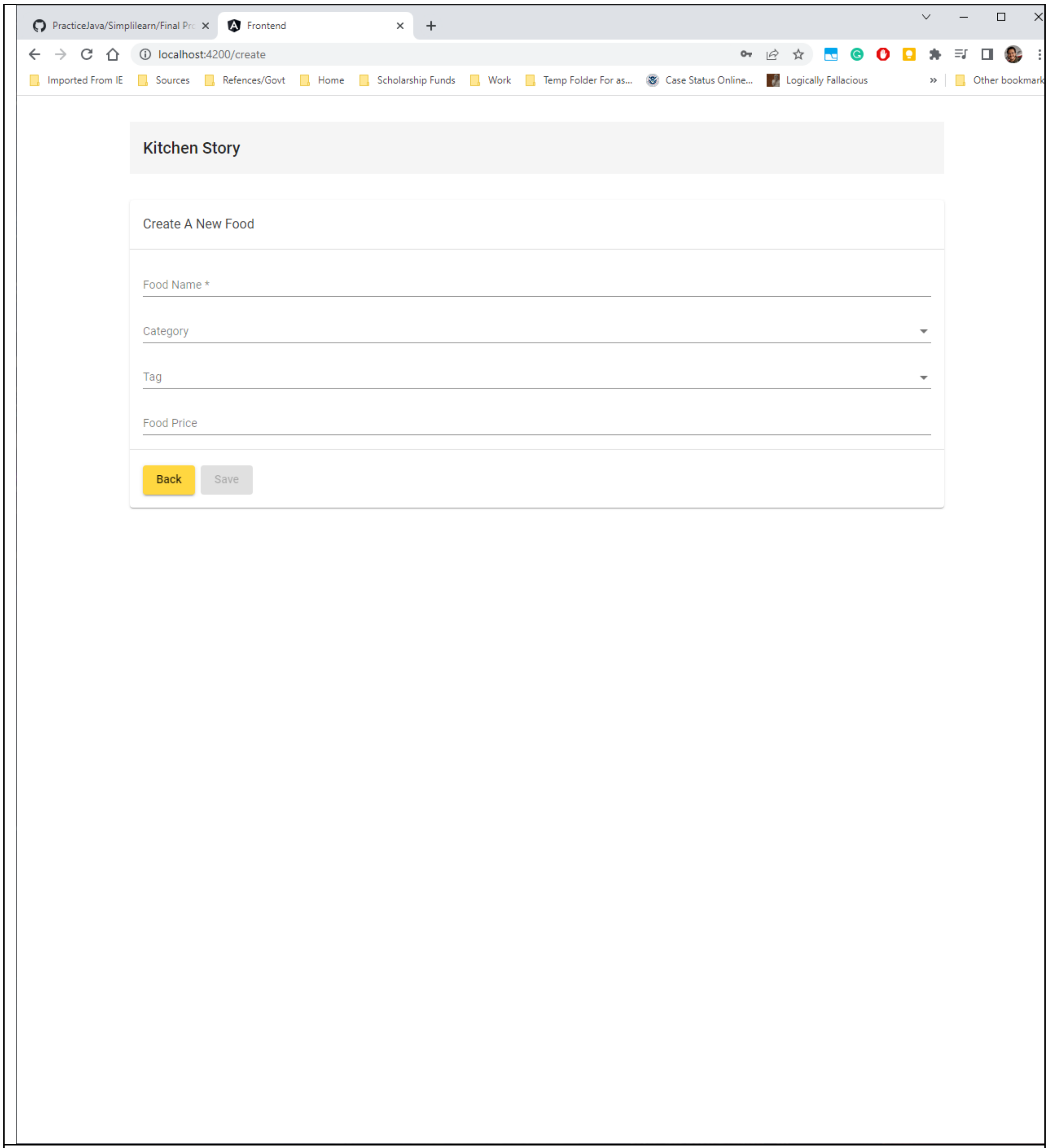
Imported From IE | Sources | Refences/Govt | Home | Scholarship Funds | Work | Temp Folder For as... | Case Status Online... | Logically Fallacious | Other bookmark

Kitchen Story

Food Manager

| Name | Category | Tag | Actions | | Price |
|---|---|---|---|---|---|
| Apple | Fruits | Healthy | Edit | Delete | $0.35 |
| Mango | Fruit | Healthy | Edit | Delete | $0.15 |
| Coconut | Fruit | Healthy | Edit | Delete | $0.99 |
| Strawberry | Fruit | Healthy | Edit | Delete | $2.99 |
| Blueberry | Fruits | Healthy | Edit | Delete | $0.99 |
| Brocoli | Vegetable | Healthy | Edit | Delete | $2.5 |
| Asparagus | Vegetable | Healthy | Edit | Delete | $3.99 |
| Lettuce | Vegetable | Healthy | Edit | Delete | $0.99 |
| Cabbage | Vegetable | Healthy | Edit | Delete | $0.99 |
| Tomato | Vegetable | Healthy | Edit | Delete | $3.99 |
| Onion | Vegetable | Healthy | Edit | Delete | $0.55 |
| Canned Tuna | Meat | Healthy | Edit | Delete | $2.5 |
| Kitchen Stories - 12pc Sushi | Packaged | Bistro | Edit | Delete | $12.99 |
| Potato Chips | Packaged | Snack | Edit | Delete | $2.99 |
| Chip on Chip Cookies | Packaged | Snack | Edit | Delete | $1.99 |
| Yogurt | Dairy | Healthy | Edit | Delete | $2.99 |

List of all food items available for admin with logout function


Kitchen Story

Create A New Food

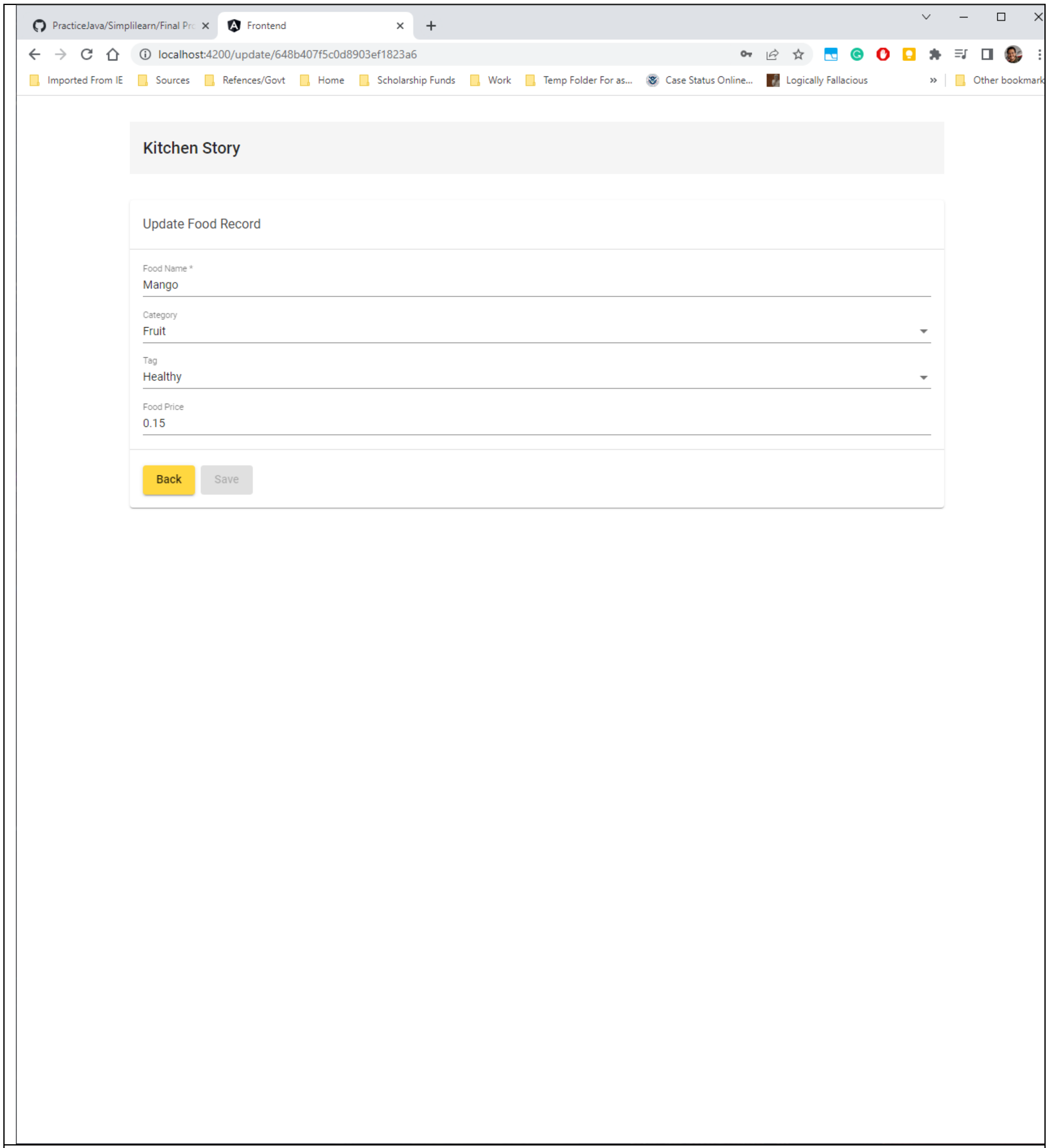
Food Name *

Category

Tag

Food Price

Creation function for admin



Kitchen Story

Update Food Record

| | |
|---|---|
| Food Name * | Mango |
| Category | Fruit |
| Tag | Healthy |
| Food Price | 0.15 |

Edit function for admin