

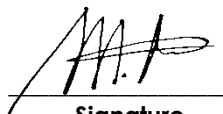
Faculty of Information Technology									
<p>I declare that I am familiar with, and will abide to the Examination rules of CTU</p>  <p>Signature</p>	<p>SUBJECT NAME: Solutions Development</p> <p>SUBJECT CODE: SLD521</p>								
	<p>FORMATIVE ASSESSMENT</p> <p>Duration: Nov 22 – 24 Nov</p> <p>Date 24 November 2023</p> <p>Total Marks: 100</p> <p>Total pages:</p>					<p>Examiner: Mr Junior Mangayi</p> <p>Moderator: Miss Faith Muwishi</p>			
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Summative Project Question(s)

Project: MVC Project Assignment: Online Recipe Book (C# with ASP.NET MVC)

Background

In today's digital age, traditional cookbooks are becoming a thing of the past. Many individuals are turning to online platforms to find, share, and store their favorite recipes. Recognizing this trend, a startup company has approached you to develop an online recipe book application. This platform aims to provide a centralized place for users to discover new recipes, save their favorite dishes, and share their culinary creations with a broader audience. By leveraging the MVC design pattern in C# with ASP.NET MVC, you are tasked with creating a user-friendly and efficient system that can cater to the needs of both amateur and professional chefs.

Objective:

Develop an online recipe book application that serves as a comprehensive platform for culinary enthusiasts. The application should:

- Allow users to browse a wide variety of recipes from different cuisines and dietary preferences
- Enable users to add their unique recipes, thereby contributing to the community.
- Provide features to edit and update recipes, ensuring that the content remains current and accurate.
- Incorporate a user-friendly interface where recipes can be deleted with proper confirmation prompts to prevent accidental data loss.
- Ensure that each recipe contains essential details such as ingredients, preparation time, cooking time, and step-by-step instructions.
- Offer a responsive design that ensures a seamless experience across desktop and mobile devices.

CSS

Site.css

```
html {  
    font-size: 14px;  
}  
  
@media (min-width: 768px) {  
    html {
```

```
        font-size: 16px;
    }
}

.btn:focus, .btn:active:focus, .btn-link.nav-link:focus, .form-control:focus,
.form-check-input:focus {
    box-shadow: 0 0 0 0.1rem white, 0 0 0 0.25rem #258cfb;
}

html {
    position: relative;
    min-height: 100%;
}

.text-pink{
    color:#ff1448 !important;
}
.nav-link{
    letter-spacing:2px;
}
#carouselExampleSlidesOnly{
    height:400px;
}
footer{
    background-color:#0d243d;
    height:200px;
}
header{
    z-index:1000;
}
.dishCard{
    height:250px;
}
.fa-instagram{
    color:#bc2a8d;
}
.fa-whatsapp{
    color:#128c7E;
}
.fa-facebook{
    color:#3b5998;
}
.fa-envelope{
    color:#EA4335;
}
#recipe-list{
    top:5rem;
}
#recipe-list ul::-webkit-scrollbar{
    width:10px;
}
#recipe-list ul::-webkit-scrollbar-track{
    background-color:#ffffff;
}
#recipe-list ul::-webkit-scrollbar-thumb{
    background-color:#ff1448;
    border-radius:10px;
}
.recipe-item :hover{
    background-color:#0d243d;
}
```

```

        border-radius:10px;
    }
    .recipe-item:hover a{
        color:#ffffff !important;
    }

```

Controller

Home controller

```

using FoodRecipe.Models;
using Microsoft.AspNetCore.Mvc;
using System.Diagnostics;

namespace FoodRecipe.Controllers
{
    public class HomeController : Controller
    {
        private readonly ILogger<HomeController> _logger;

        public HomeController(ILogger<HomeController> logger)
        {
            _logger = logger;
        }

        public IActionResult Index()
        {
            return View();
        }

        public IActionResult Privacy()
        {
            return View();
        }

        [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None,
NoStore = true)]
        public IActionResult Error()
        {
            return View(new ErrorViewModel { RequestId = Activity.Current?.Id
?? HttpContext.TraceIdentifier });
        }
    }
}

```

Recipe controller

```

using Microsoft.AspNetCore.Mvc;
using FoodRecipe.Models;
namespace FoodRecipe.Controllers
{
    public class RecipeController : Controller
    {
        public IActionResult Index()
        {
            return View();
        }
    }
}

```

```

[HttpPost]
public IActionResult GetRecipeCard([FromBody] List<Recipe> recipes)
{
    return PartialView("_RecipeCard", recipes);
}
public IActionResult Search([FromQuery] string recipe)
{
    ViewBag.Recipe = recipe;

    return View();
}
}
}

```

Model

Recipe

```

1 namespace FoodRecipe.Models
2 {
3     public class Recipe
4     {
5         public string? Id { get; set; }
6         public string? Image_url { get; set; }
7
8         public string? Publisher { get; set; }
9         public string? Title { get; set; }
10    }
11 }

```

View Models

_RecipeCard.cshtml

```

1 @model IEnumerable<FoodRecipe.Models.Recipe>
2
3 @foreach (var recipe in Model)
4 {
5     <div class="col-sm-4 col-md-4 col-lg-4 col-xl-4 mb-3">
6         <div class="shadow rounded">
7             <div class="card dishCard">
8                 
10                <div class="card-body">
11                    <p class="card-title">@recipe.Title</p>
12                    <p class="card-text">@recipe.Publisher</p>
13                </div>
14            </div>
15        </div>
16    </div>

```

_SearchBar.cshtml

```

<div class="shadow rounded">
  <div class="p-2">
    <form autocomplete="off">
      <div class="mb-2 row">
        <div class="col-11 text-center ui-widget p-1">
          <input type="text" id="tags" placeholder="Search
Recipe" class="form-control" name="recipe" />
        </div>
        <div class="col-1 p-1">
          <button type="submit" class="btn btn-sm btn-success p-
2">Search</button>
        </div>
      </div>
    </form>
  </div>
</div>

<script src="/lib/jquery/dist/jquery.min.js"></script>
<script>
  $(function () {
    var availableTags = [
      "mushrooms", "pumkin", "pumkin", "tomato", "apple", "banana",
      "blackberry", "blueberry",
      "coconut", "grape", "kiwifruit", "mango", "orange", "payaya", "
pineapple", "strawberry",
      "watermelon", "salad", "pizza", "pasta", "popcorn",
      "hamburger", "pie", "cake", "sausage",
      "fries", "masala", "chicken", "chocolate", "sushi", "ice cream
"
    ];
    $("#tags").autocomplete({
      source: availableTags,
      minLength: 2
    });
  });
</script>

```

_SideMenu.cshtml

```

1 <ul class="list-group-flush px-0 vh-100 overflow-auto " >
2   <li class="recipe-item list-group-item">
3     <a class="text-decoration-none text-dark"
4 href="/Recipe/Search?recipe=mushrooms">Mushrooms</a>
5   </li>
6   <li class="recipe-item list-group-item">
7     <a class="text-decoration-none text-dark"
8 href="/Recipe/Search?recipe=pumkin">Pumpkin</a>
9   </li>
10  <li class="recipe-item list-group-item">
11    <a class="text-decoration-none text-dark"
12 href="/Recipe/Search?recipe=apple">Apple</a>

```

```
13     </li>
14     <li class="recipe-item list-group-item">
15         <a class="text-decoration-none text-dark"
16 href="/Recipe/Search?recipe=banana">Banana</a>
17     </li>
18     <li class="recipe-item list-group-item">
19         <a class="text-decoration-none text-dark"
20 href="/Recipe/Search?recipe=blackberry">Blackberry</a>
21     </li>
22     <li class="recipe-item list-group-item">
23         <a class="text-decoration-none text-dark"
24 href="/Recipe/Search?recipe=blueberry">Blueberry</a>
25     </li>
26     <li class="recipe-item list-group-item">
27         <a class="text-decoration-none text-dark"
28 href="/Recipe/Search?recipe=coconut">Coconut</a>
29     </li>
30     <li class="recipe-item list-group-item">
31         <a class="text-decoration-none text-dark"
32 href="/Recipe/Search?recipe=grape">Grape</a>
33     </li>
34     <li class="recipe-item list-group-item">
35         <a class="text-decoration-none text-dark"
36 href="/Recipe/Search?recipe=kiwifruit">Kiwifruit</a>
37     </li>
38     <li class="recipe-item list-group-item">
39         <a class="text-decoration-none text-dark"
40 href="/Recipe/Search?recipe=mango">Mango</a>
41     </li>
42     <li class="recipe-item list-group-item">
43         <a class="text-decoration-none text-dark"
44 href="/Recipe/Search?recipe=orange">Orange</a>
45     </li>
46     <li class="recipe-item list-group-item">
47         <a class="text-decoration-none text-dark"
48 href="/Recipe/Search?recipe=payaya">Payaya</a>
49     </li>
50     <li class="recipe-item list-group-item">
51         <a class="text-decoration-none text-dark"
52 href="/Recipe/Search?recipe=pineapple">Pineapple</a>
53     </li>
54     <li class="recipe-item list-group-item">
55         <a class="text-decoration-none text-dark"
56 href="/Recipe/Search?recipe=strawberry">Strawberry</a>
57     </li>
58     <li class="recipe-item list-group-item">
59         <a class="text-decoration-none text-dark"
60 href="/Recipe/Search?recipe=watermelon">Watermelon</a>
61     </li>
62     <li class="recipe-item list-group-item">
63         <a class="text-decoration-none text-dark"
64 href="/Recipe/Search?recipe=salad">Salad</a>
65     </li>
```



```
66     <li class="recipe-item list-group-item">
67         <a class="text-decoration-none text-dark"
68 href="/Recipe/Search?recipe=pizza">Pizza</a>
69     </li>
70     <li class="recipe-item list-group-item">
71         <a class="text-decoration-none text-dark"
72 href="/Recipe/Search?recipe=pasta">Pasta</a>
73     </li>
74     <li class="recipe-item list-group-item">
75         <a class="text-decoration-none text-dark"
76 href="/Recipe/Search?recipe=popcorn">Popocorn</a>
77     </li>
78     <li class="recipe-item list-group-item">
79         <a class="text-decoration-none text-dark"
80 href="/Recipe/Search?recipe=hamburger">Hamburger</a>
81     </li>
82     <li class="recipe-item list-group-item">
83         <a class="text-decoration-none text-dark"
84 href="/Recipe/Search?recipe=pie">Pie</a>
85     </li>
86     <li class="recipe-item list-group-item">
87         <a class="text-decoration-none text-dark"
88 href="/Recipe/Search?recipe=cake">Cake</a>
89     </li>
90     <li class="recipe-item list-group-item">
91         <a class="text-decoration-none text-dark"
92 href="/Recipe/Search?recipe=sausage">Sausage</a>
93     </li>
94     <li class="recipe-item list-group-item">
95         <a class="text-decoration-none text-dark"
96 href="/Recipe/Search?recipe=kebab">Kebab</a>
97     </li>
98     <li class="recipe-item list-group-item">
99         <a class="text-decoration-none text-dark"
100 href="/Recipe/Search?recipe=poutine">Poutine</a>
101     </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=seafood">Seafood</a>
    </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=chips">Chips</a>
    </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=fries">Fries</a>
    </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=masala">Masala</a>
    </li>
    <li class="recipe-item list-group-item">
```

```

        <a class="text-decoration-none text-dark"
href="/Search?recipe=chicken">Chicken</a>
    </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=chocoloate">Chocolate</a>
    </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=sushi">Sushi</a>
    </li>
    <li class="recipe-item list-group-item">
        <a class="text-decoration-none text-dark"
href="/Recipe/Search?recipe=ice cream">Ice cream</a>
    </li>
</ul>

```

Index.cshtml

```

1 @{
2     ViewData["Title"] = "Recipe";
3 }
4 <div class="container-fluid">
5     <div class="row mb-4">
6         <div class="col-12">
7             <partial name="_SearchBar" />
8
9         </div>
10    </div>
11    <div class="row">
12        <div class="col-2">
13            <div class="shadow rounded position-sticky" id="recipe-
14list">
15                <div class="border-bottom border-3 p-2 ">
16                    <h4 class="text-pink text-center fst-
17italic">Recipe</h4>
18                    <partial name="_SideMenu" />
19
20                </div>
21            </div>
22        </div>
23        <div class="col-10">
24            <div class="mb-3">
25                <h4 class="text-dark">Pizza</h4>
26                <div class="row" id="pizzaRecipe"></div>
27            </div>
28            <div class="mb-3">
29                <h4 class="text-dark">Cake</h4>
30                <div class="row" id="cakeRecipe"></div>
31            </div>
32            <div class="mb-3">
33                <h4 class="text-dark">Chicken</h4>
34                <div class="row" id="chickenRecipe"></div>

```

```

35         </div>
36         <div class="mb-3">
37             <h4 class="text-dark">Chocolate</h4>
38             <div class="row" id="chocolateRecipe"></div>
39         </div>
40     </div>
41 </div>
42 </div>
43
44 <script src="/lib/jquery/dist/jquery.min.js"></script>
45 <script type="text/javascript">
46     $(document).ready(function () {
47         GetRecipes("pizza", "pizzaRecipe", false);
48         GetRecipes("cake", "cakeRecipe", false);
49         GetRecipes("chicken", "chickenRecipe", false);
50         GetRecipes("chocolate", "chocolateRecipe", false);
51     })

```

</script>

Search.cshtml

```

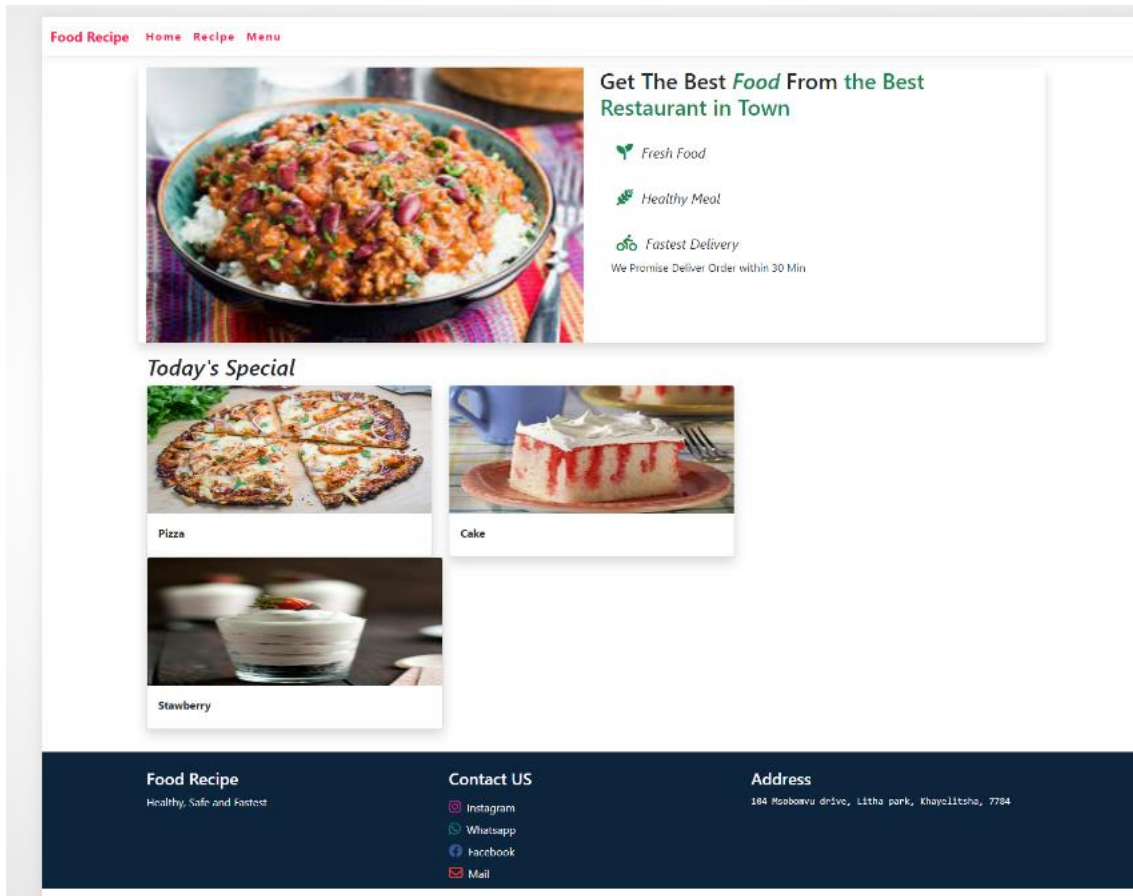
@{
    ViewData["Title"] = "Search";
}

<div class="container-fluid">
    <div class="row">
        <div class="col-12 mb-4">
            <partial name="_SearchBar" />
        </div>
    </div>
    <div class="row">
        <div class="col-2">
            <div class="shadow rounded position-sticky" id="recipe-list">
                <div class="border-bottom border-3 p-2">
                    <h4 class="text-pink text-center fst-italic">Recipe</h4>
                    <partial name="_SideMenu" />
                </div>
            </div>
        </div>
        <div class="col-10">
            <h2 class="text-dark">Search Recipes</h2>
            <div id="SearchRecipes" class="row"></div>
        </div>
    </div>
</div>
<script src="/lib/jquery/dist/jquery.min.js"></script>
<script type="text/javascript">
    $(document).ready(function () {
        GetRecipes('@ViewBag.Recipe', 'searchRecipes', true)
    })
</script>

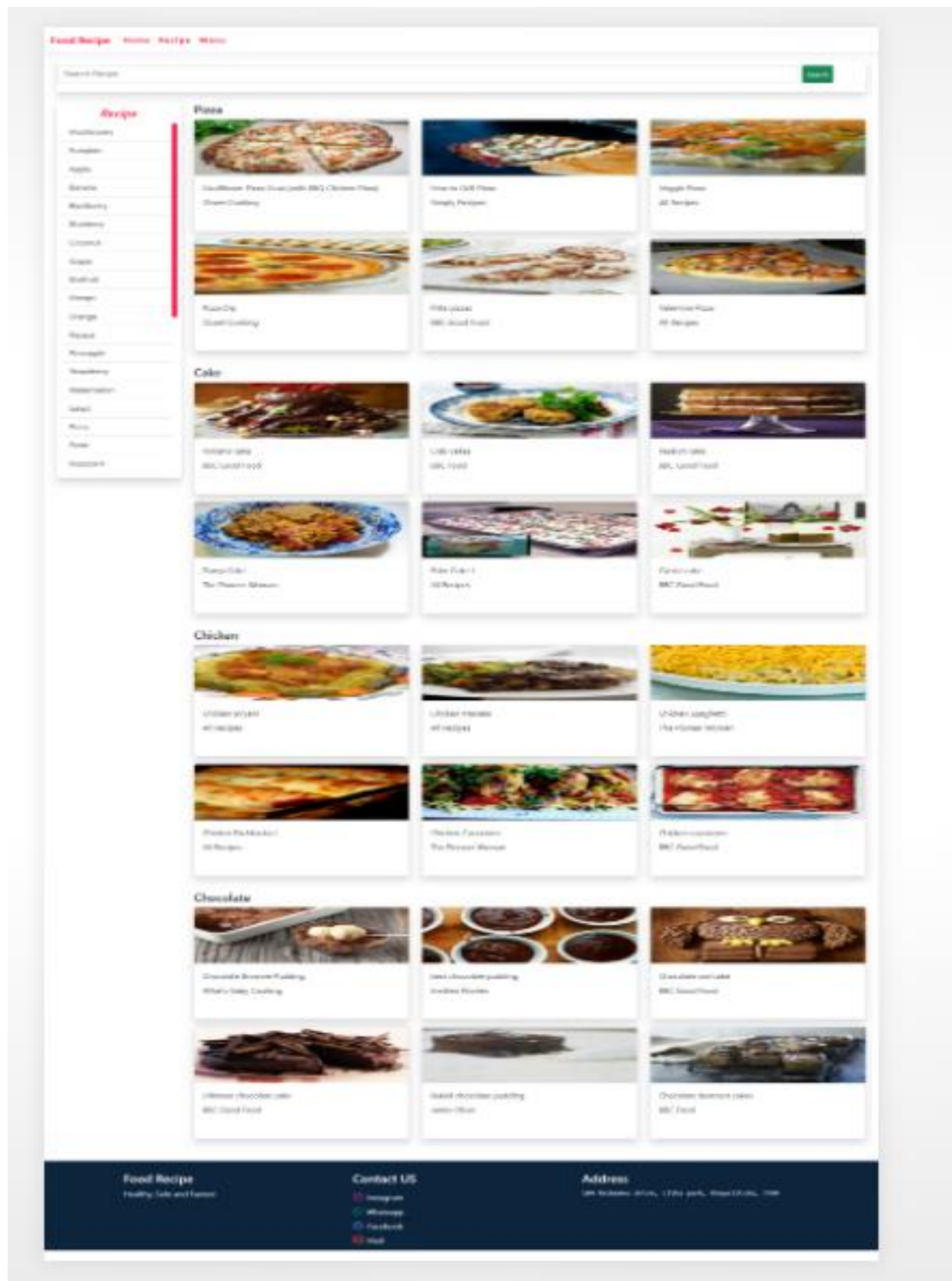
```

Output

Home page (screenshot)



[Recipe and ingredients page](#)



Search Recipe

Search

Recipe

Mushrooms

Pumpkin

Apple

Banana

Blackberry

Blueberry

Coconut

Grape

Kiwifruit

Mango

Orange

Payaya

Pineapple

Pizza



Cauliflower Pizza Crust (with BBQ Chicken Pizza)
Closet Cooking



How to Grill Pizza
Simply Recipes



Veggie Pizza
All Recipes



Pizza Dip
Closet Cooking



Pitta pizzas
BBC Good Food



Valentine Pizza
All Recipes