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eProject – Sem 3

Jamesthew.com

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Semester:	3	
Batch No:	T1.1805.E0	
Group No:	5	
Order:	Full name	Roll No.
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Aug 2019

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This is to certify that

Mr.

Mai Trung Nguyen

Bui Trong Nghia

La Thanh Nhat

Nguyen Ngoc Son

Nguyen Trong Dang

has successfully designed & developed

project: JAMESTHEW.com

Submitted by:

Bui Trong Nghia

Date of issue: August 19th 2019

Authorised Signature:

1. Acknowledgment

We would like to acknowledge all those who have given support and help us make the project a success.

We wish to express our deep gratitude to all teachers who have been devoting their lives to teach us how to stand-alone and walk ahead.

We are grateful to our families who take care and encourage us even though we are successful or failed, also to our friends who are always care of us. They never leave us alone and always look forward to us when we are on any road of the life.

We are much thankful to the entire staff and chairpersons at the Head Office of Aptech Worldwide, Aptech – Vietnam, and FPT – Aptech Center who have been organizing and looking after our studying course.

There are no words to show our appreciation for teachers of FPT Aptech Centre who have been organizing and looking after us during our studying course to finish this project. Our special thanks Mr Tran Phuoc Sinh who works day by day to teach and guide us, e-Project Team at the Head Office who instruct and help us.

Finally, we would like to offer many thanks to all our schoolfellows for their valuable suggestions.

We would like to thank sincerely!

2. Introduction

James Thew is one of the famous cook working in one of the five star hotels in the city. He is so famous that the publishers approach him to write recipes book, and provide some of the tips pertaining to the recipes, etc. Also some of the producers want him to work for their recipe shows where he needs to cook two or three recipes of different categories like juices, non-vegetarian and vegetarian recipes, Italian recipes, etc.

He actually loves cooking, and during his free time he spends his time by cooking and trying out new recipes that he had come across. He also wanted to conduct the cookery classes and share his recipes where he can interact with different people and can get their feedback. So he has started the classes near by his home, as a part-time job during the weekends, where people used to attend for learning the different varieties of recipes from him. He generally charges with very less fares for these weekend classes, so as to attract the maximum number of people to the classes.

3. System requirements Specification

3.1. Server Requirement

❖ Hardware

Component	Requirement
CPU	Processor type: Pentium IV-compatible processor or faster Processor speed: Recommended: 2.0 GHz or faster
OS	Microsoft Windows Server 2012 with IIS
Memory (RAM)	RAM: Minimum: 512 MB Recommended: 2 GB or more
Hard Drive	Free space: Minimum: 200 MB Recommended: 50 GB or more

	Maximum: Operating system maximum
--	-----------------------------------

❖ Software

Component	Requirement
Microsoft .NET Framework	Version 4.6 or higher
RDBMS	Microsoft SQL Server 2017

3.2 Client Requirement

❖ Hardware

Component	Requirement
CPU	Processor type: Pentium III-compatible processor or faster Processor speed: Recommended: 1.0 GHz or faster
OS	All OS(Window, Linux, Android, Mac OS ...)
Memory (RAM)	RAM: Minimum: 512 MB Recommended: 1 GB or more Maximum: Operating system maximum
Hard Drive	Free space: Minimum: 10 MB

❖ Software

Component	Requirement
Web Browser	Chrome, Opera (up to date)

4. Objective and Scope of the thesis

4.1. Technology Used

Using framework: ASP.NET for building project and services with .net, c#.

4.2. Objective

➤ The main menu of website:

- Home Page describing about the owner (Mr. James Thew)
- Show Recipes and show the contests
- Customer can register with Register Page provided he makes the payment (Monthly Subscription – 10\$ and Yearly Subscription – 100\$)

➤ Admin or owner (Mr. James):

- Can access to all the cookery recipes on the site.
- View, search, update and delete the recipes and tips online.
- Can view all the feedbacks received for recipes.
- Post new contests or remove the contests.
- View, update, delete the posts, recipes and tips

➤ Login User:

- View all the cookery recipes on the site.
- View and search the recipes and tips online.
- Can view the announcements made by the owner.
- Can send a feedback for a recipe.
- View and Participate in the contests.
- View or update or delete the tips and recipes that he/she has sent.

➤ General User (who is not the member of the site):

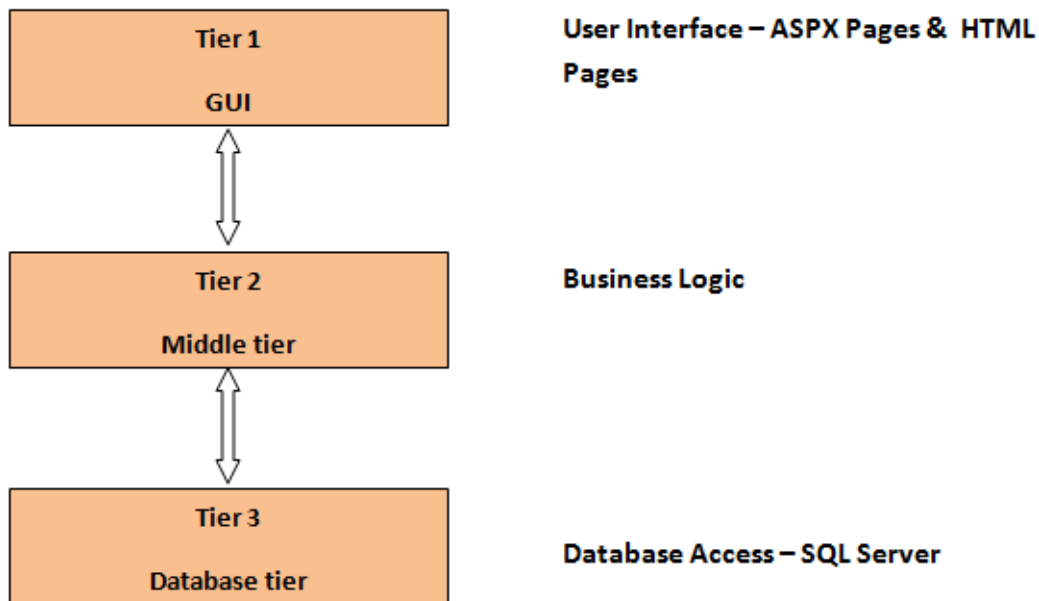
- Can register User to Login in the site.
- View and search the recipes and tips online on the free recipes alone, but can have access to only the cookery recipes and the tips that are available as free on the site.
- Can view the announcements made by the owner.
- Can send a feedback for a recipe.

Task Sheet Review I

Project Ref. No: 4	Project Title: Jamesthew.com	Date of Preparation of Activity Plan			
No.	Task	Actual Start Date	Actual Days	Team Member Names	Status
01	Acknowledgment	Aug 19,2019	2	All Members	Completed
02	Introduction			All Members	Completed
03	System requirements Specification			All Members	Completed
04	Objective and Scope of the thesis			All Members	Completed
05	Task sheet			All Members	Completed

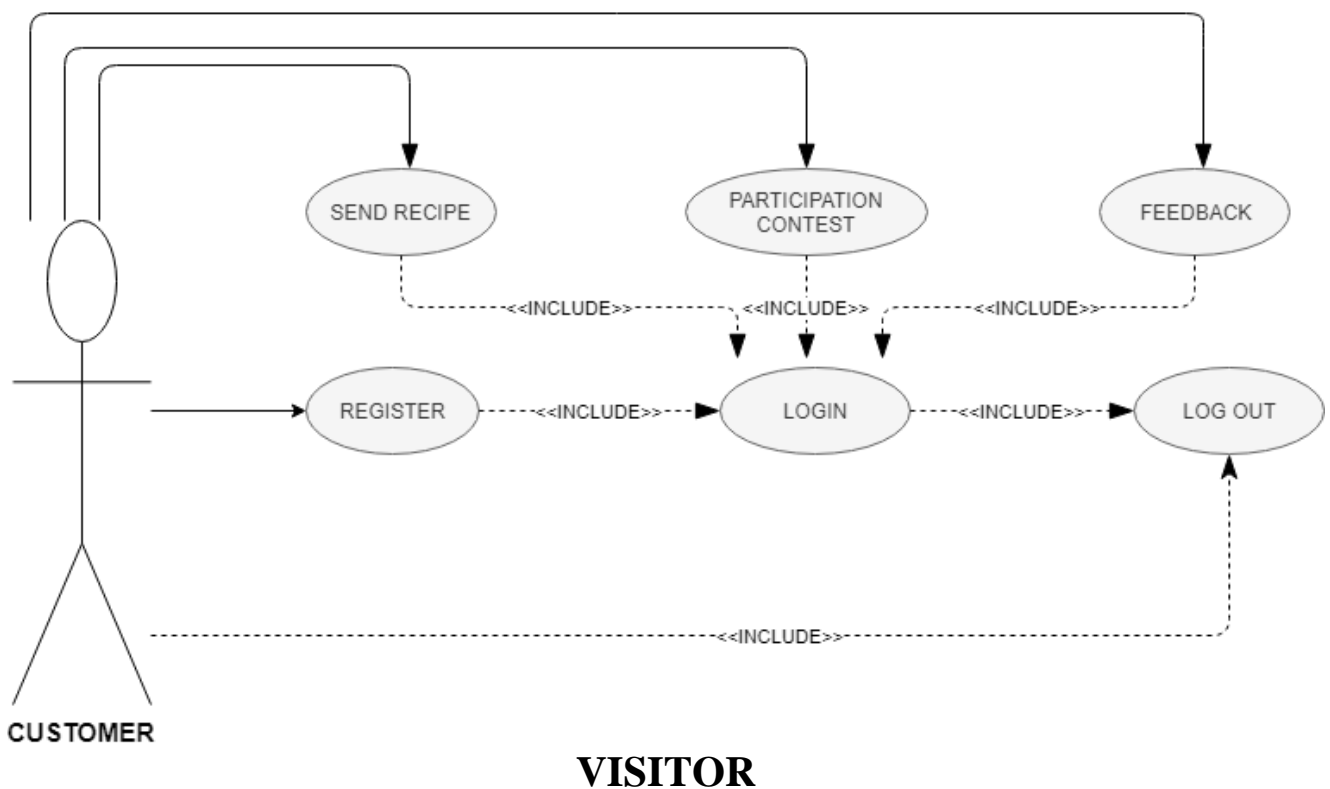
	Prepare By: Group 5	Approved By: Faculty
Date: Aug 23, 2019	Team Leader La Thanh Nhat	 Mr. Tran Phuoc Sinh

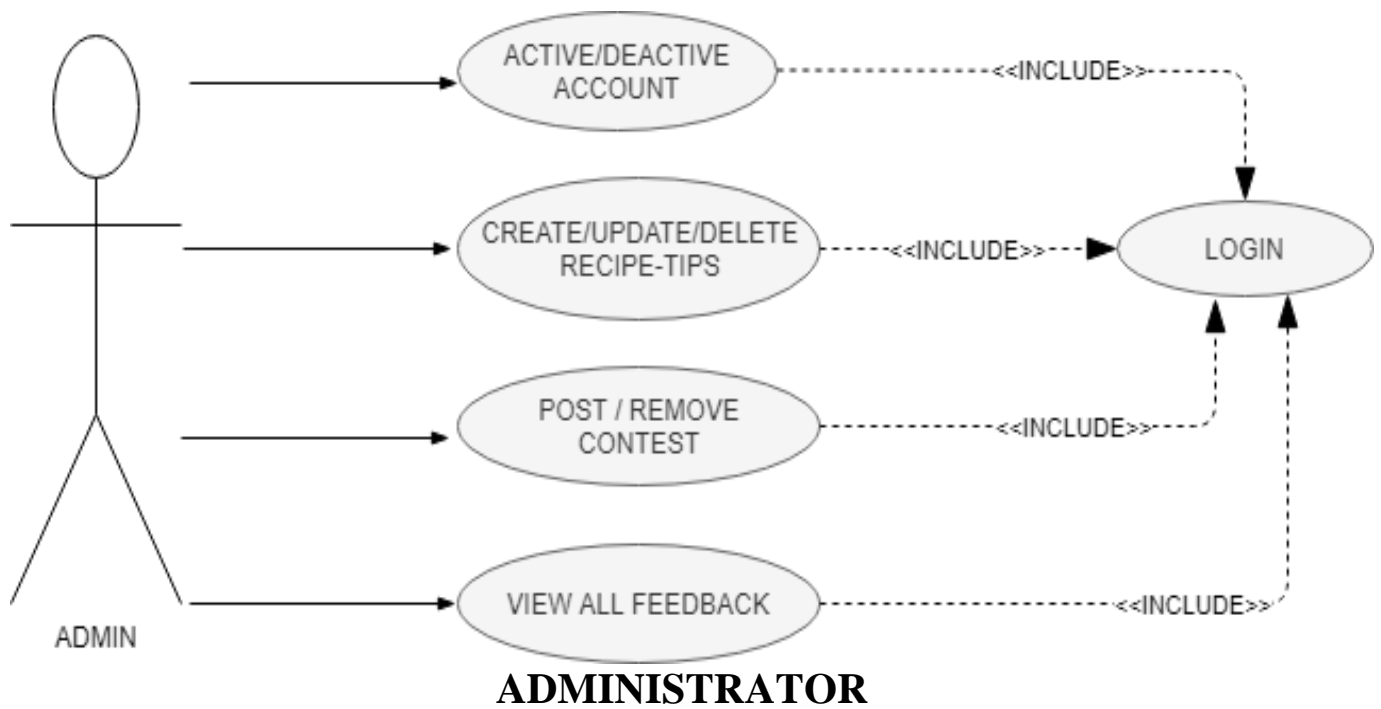
5. Design



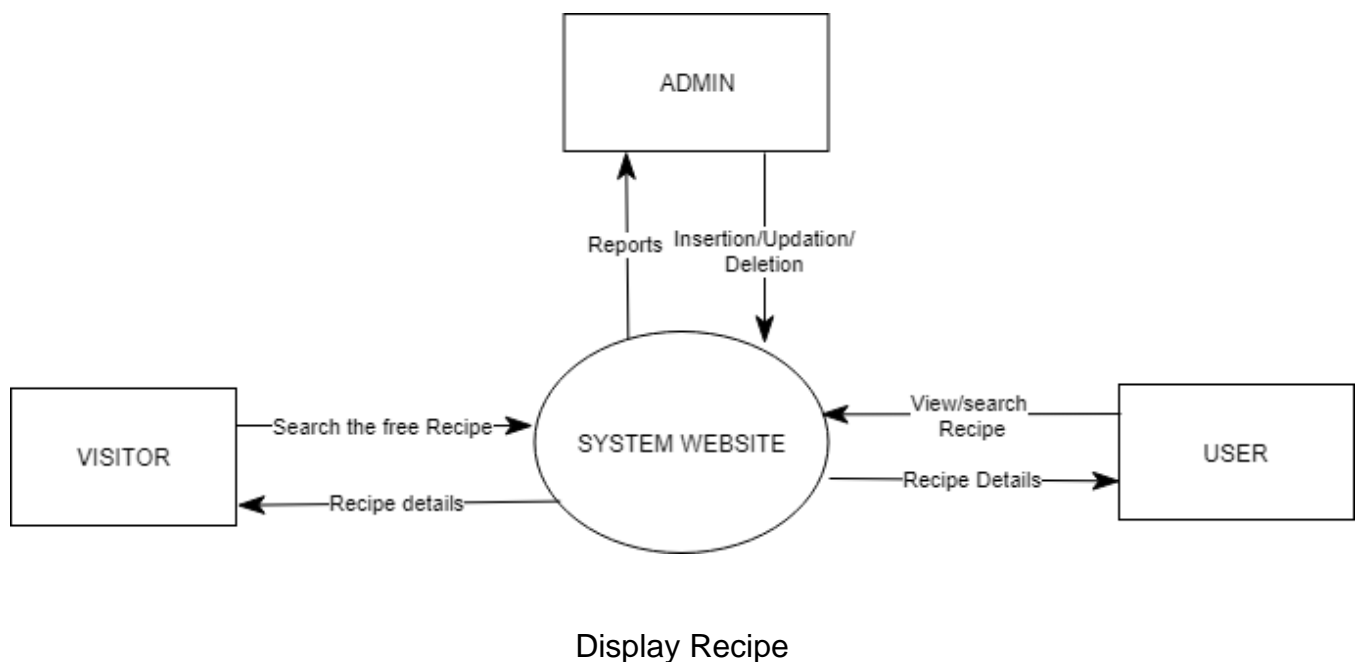
We build this project with three packages which corresponding 3 tiers : SystemGUI, Business, DataAccess.

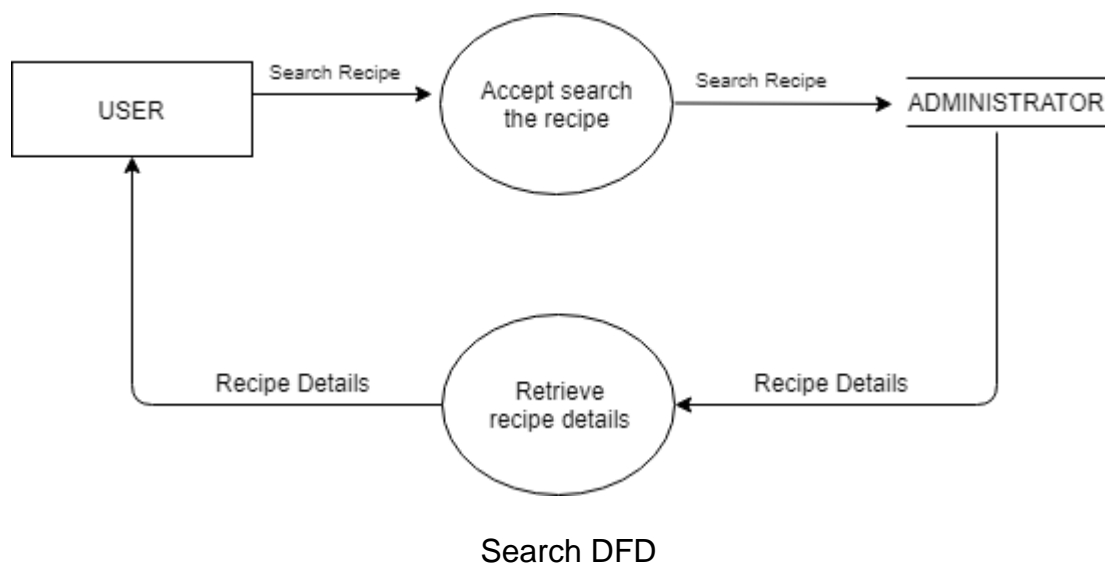
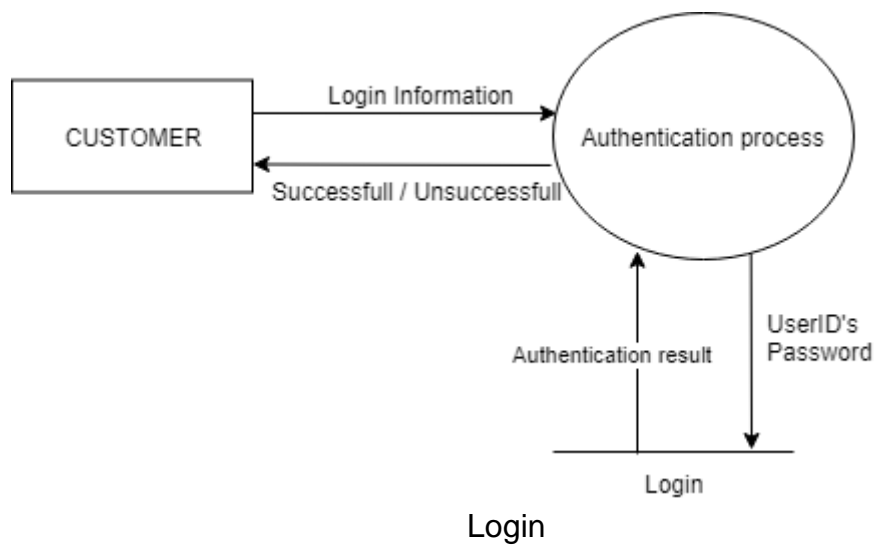
5.1 FUNCTION DIAGRAM



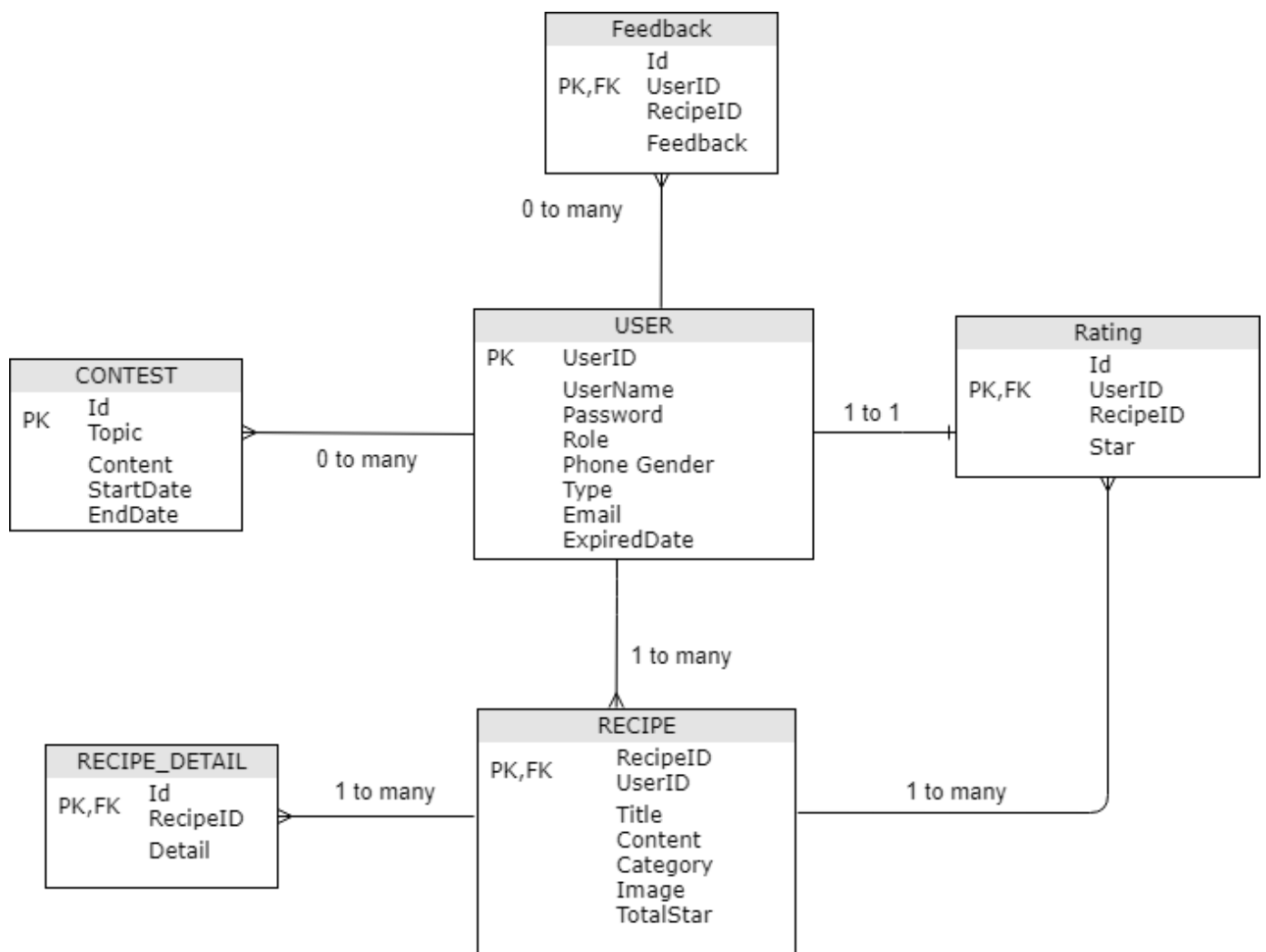


5.2 Data Flow Diagram:



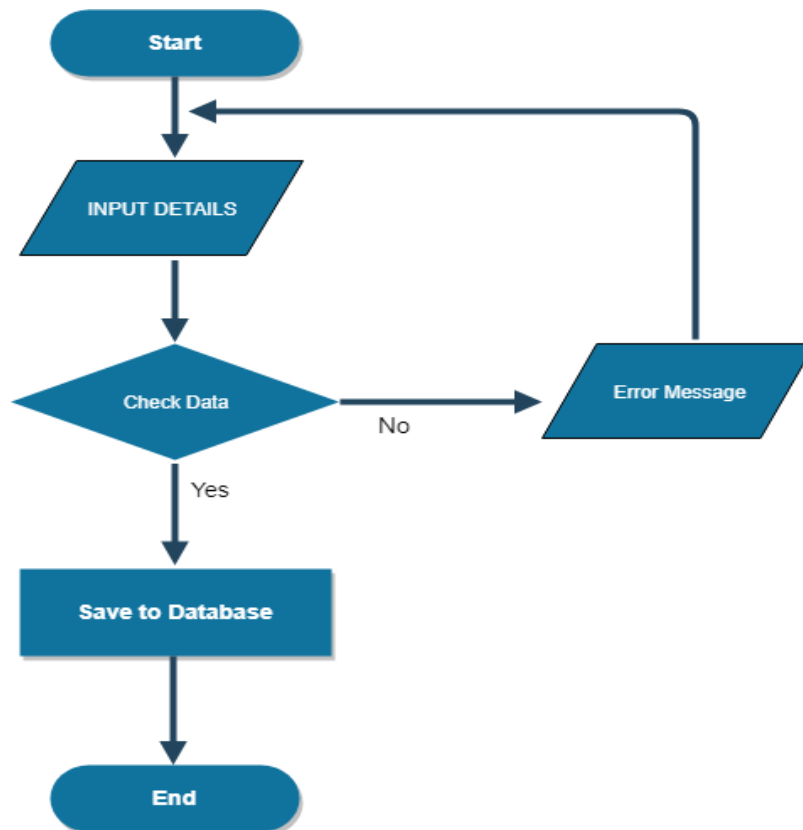


5.3 E-R Diagram

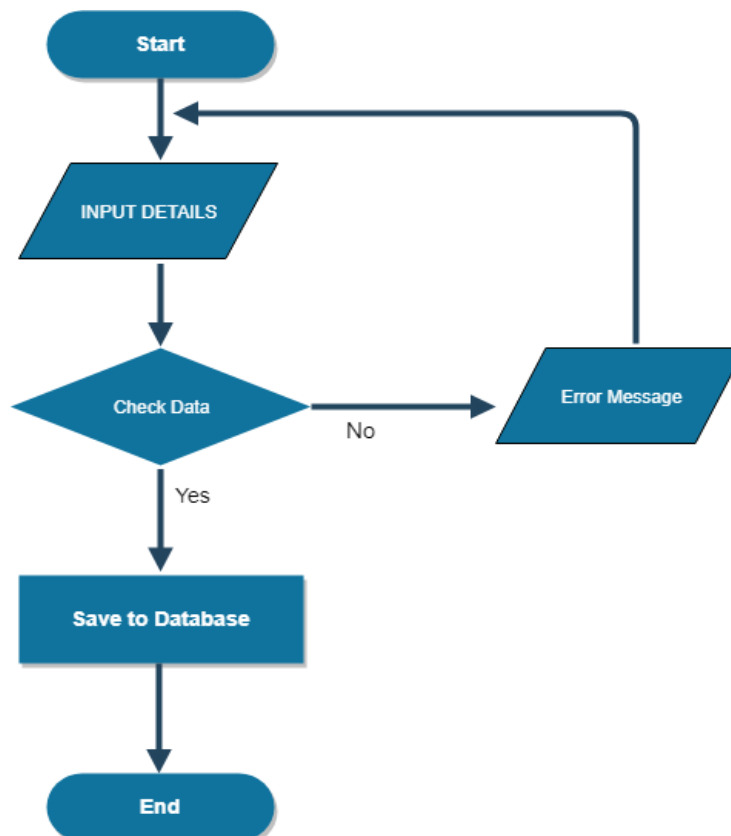


5.4 Flow chart

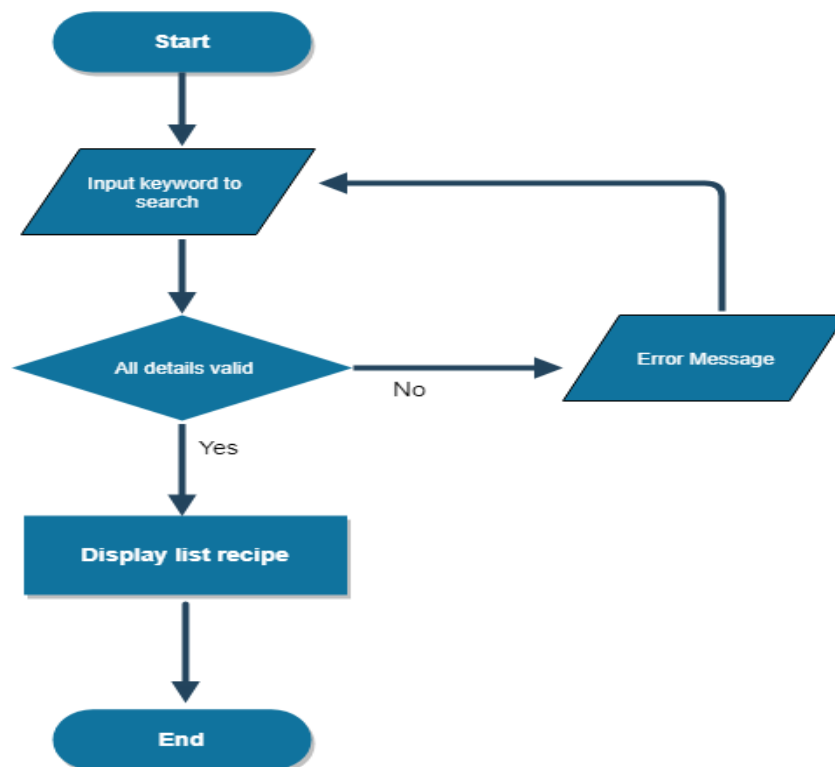
Add the recipe:



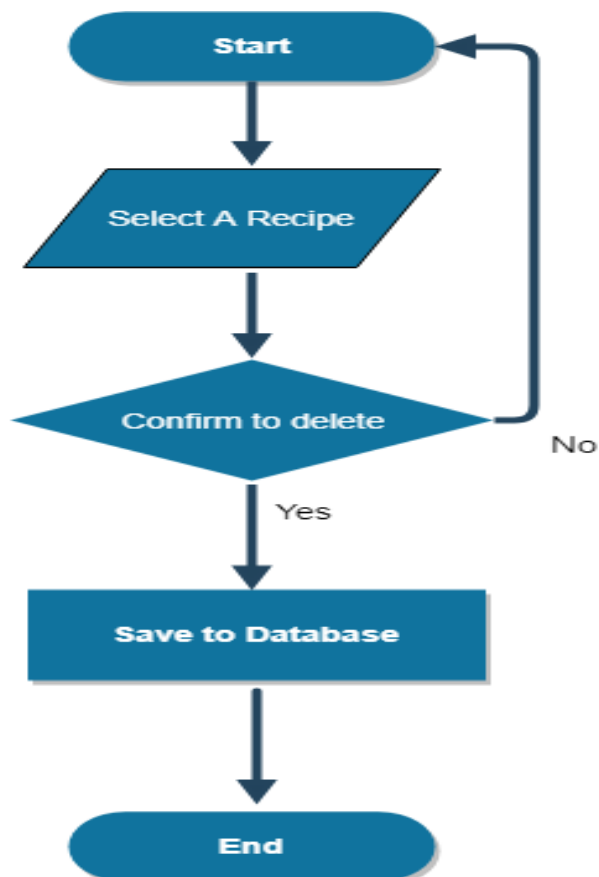
Edit the recipe:



Search recipes:



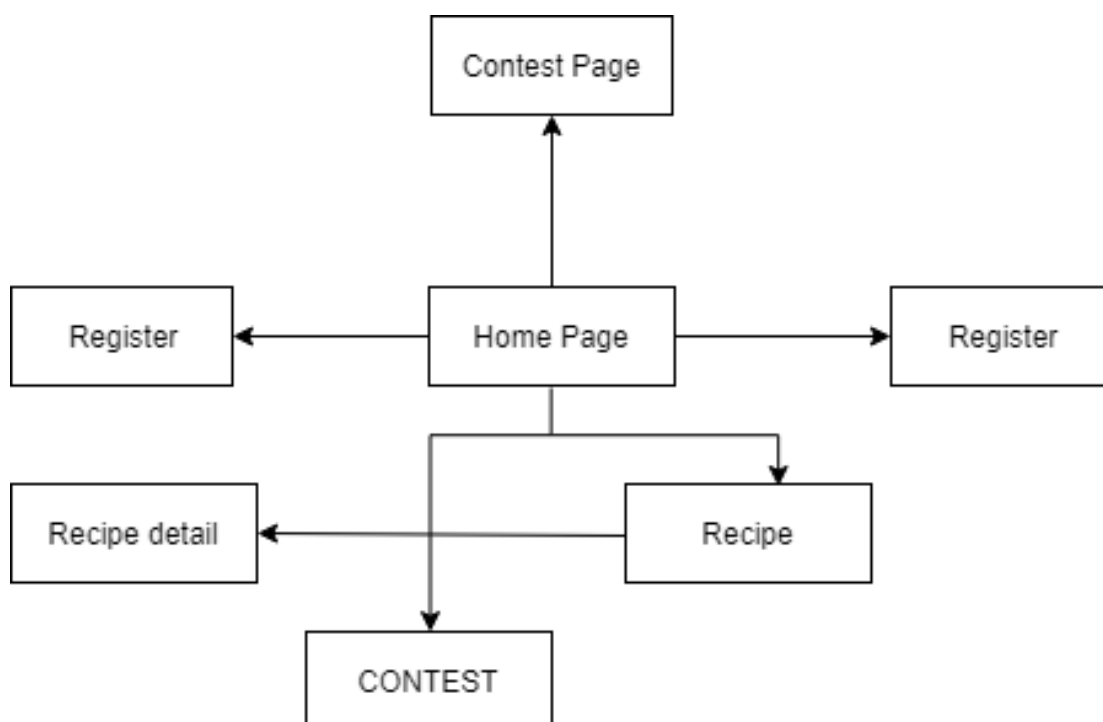
Delete Recipe:



6. Site Map

➤ The visitor's website:

- **Home:**
 - Display the recipes and contest.
- **Recipe page:**
 - Display recipes.
- **Recipe detail:**
 - Display detail recipe
 - Rating recipe
 - Feedback recipe
- **Contest page:**
 - Display the content of the contest
- **Sign-up:**
 - Allow visitors to create an Account
- **Log-in:**
 - Allow visitor to log in



➤ **The admin's website:**

- View, add, edit, delete the recipe.
- Add, edit, delete the contest.
- Disable and enable the user.



Task Sheet Review II

Project Ref. No: 4	Project Title: Jamesthew.com	Date of Preparation of Activity Plan			
No.	Task	Actual Start Date	Actual Days	Team Member Names	Status
01	Flow Chart	Aug 23,2019	5	All Members	Completed
02	DF DIAGRAM			All Members	Completed
03	ER DIAGRAM			All Members	Completed
04	Task sheet			All Members	Completed
05	Site Map			All Members	Completed

	Prepare By: Group 5	Approved By: Faculty
Date: Aug 23, 2019	Team Leader La Thanh Nhat	 Mr. Tran Phuoc Sinh

7. Database Design

a) Recipes table:

Column Name	Data type	Null	Key	Note
id	uniqueidentifier	no	primary key	
name	Nvarchar(30)	no		
category	nvarchar(MAX)	no		
content	nvarchar(MAX)	no		
type	nvarchar(MAX)	no		
createAt	Datetime	no		
enabled	Bit	no		
image	nvarchar(MAX)	yes		
manager	uniqueidentifier	no	foreign key	

b) Feedbacks table:

Column Name	Data type	Null	Key	Note
id	uniqueidentifier	no	primary key	
content	nvarchar(MAX)	no		
createAt	Datetime	no		
userId	uniqueidentifier	no	foreign key	
recipe_id	uniqueidentifier	no	foreign key	

c) User table:

Column Name	Data type	Null	Key	Note
id	uniqueidentifier	no	primary key	
name	Nvarchar(30)	no		
email	nvarchar(30)	no		
phone	nvarchar(MAX)	no		
gender	nvarchar(MAX)	no		
role	nvarchar(MAX)	yes		
expireDate	Datetime	yes		
enaled	Bit	no		
emailVerify	nvarchar(MAX)	yes		
pass	nvarchar(MAX)	no		

d) Contest table:

Column Name	Data type	Null	Key	Note
id	uniqueidentifier	no	primary key	
name	nvarchar(30)	no		
startDate	Datetime	no		
endDate	Datetime	no		

e) Rating table:

Column Name	Data type	Null	Key	Note
Id	uniqueidentifier	no	primary key	
userId	uniqueidentifier	no	foreign key	
recipeId	uniqueidentifier	no	foreign key	
Star	int	yes		

8. System Prototype

8.1 Screenshot of Page

➤ Register page:

Register Account

User name

Email

Password

gender

☐ Male ☐ Female

Phone

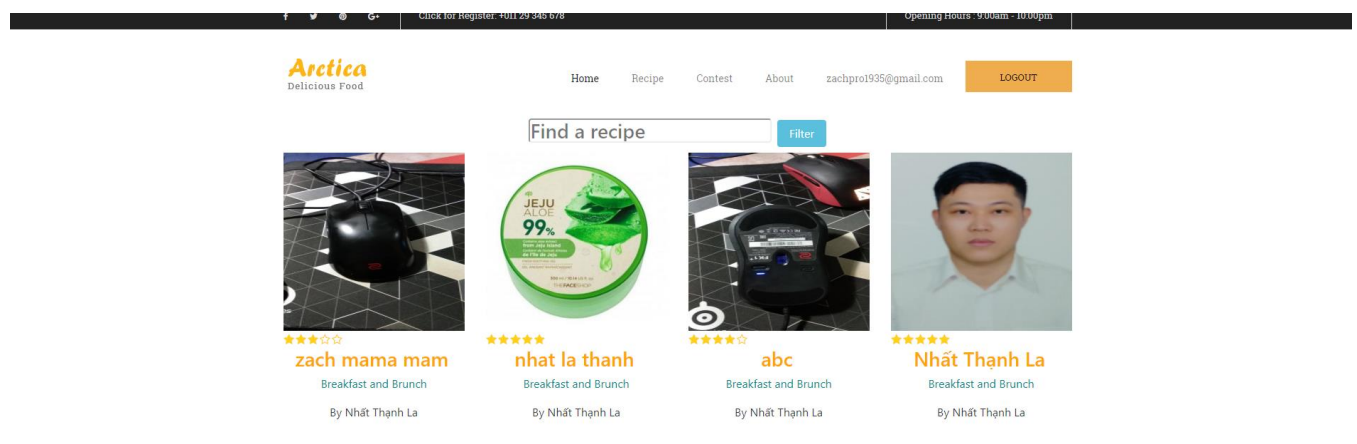
Account type

☐ Free ☐ 10\$(6 month) ☐ 50\$(12 month)

Create


- **Overview:** Visitors can register an account here with paid or free form. After they can login by that account.

➤ Recipe page:




- **Overview:** This page will show all recipe. Click the Recipe to redirect to the recipe detail of the Recipe clicked.

➤ Recipe detail page:


[Home](#)
[Recipe](#)
[Contest](#)
[About](#)
[zachpro1935@gmail.com](#)
[LOGOUT](#)

zach mama mam
 News Detail

★★☆☆☆ (2 rate)
 View by : 1



The Best Tips For Tasty Food


29/02/2020 10:15:11 PM [zachpro1935@gmail.com](#)

ZACH COGN THUC

Curabitur quas nets lacusets nulat iaculis loremis etis nisle varius vitae seditum fugiatummul aliquam qui sequi nets lacusets nulat Curabitur quas nets lacusets nulat iaculisloremis etis nisle varius vitae seditum fugiatum ligul aliquam qui sequi nets lacusets nulat

Curabitur quas nets lacusets nulat iaculis loremis etis nisle varius vitae seditum fugiatummul aliquam qui sequi nets lacusets nulat Curabitur quas nets lacusets nulat iaculisloremis etis nisle varius vitae seditum fugiatum ligul aliquam qui sequi nets lacusets nula

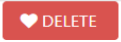
Comment




Nhất Thanh La

popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum p

about 6 days ago






Nhất Thanh La

dasdasts lacusets nulat iaculis loremis etis nisle varius vitae seditum fugiatummul aliquam qui sequi nets lacusets nulat Curabitur quas nets lacuset

about 5 days ago



- **Overview:** On this page, users can view recipes. Every user have once time to rating. Users can comment and delete comments that they themselves have commented.

➤ User page:


[Home](#)
[Recipe](#)
[Contest](#)
[About](#)
[zachpro1935@gmail.com](#)
[LOGOUT](#)
[Recipe](#)

User

name

Nhất Thành La

email

zachpro1935@gmail.com

gender

☒ Male ☐ Female

phone

0906767296

expireDate

28/02/2022 10:15:11 PM

Buy package

☒ None ☐ 10\$(6 month) ☐ 50\$(12 month)

- **Overview:** User can see and edit their information.

➤ Create contest page:

Create Contest

Contest Name

Start Date

dd/mm/yyyy

End Date

dd/mm/yyyy

Content

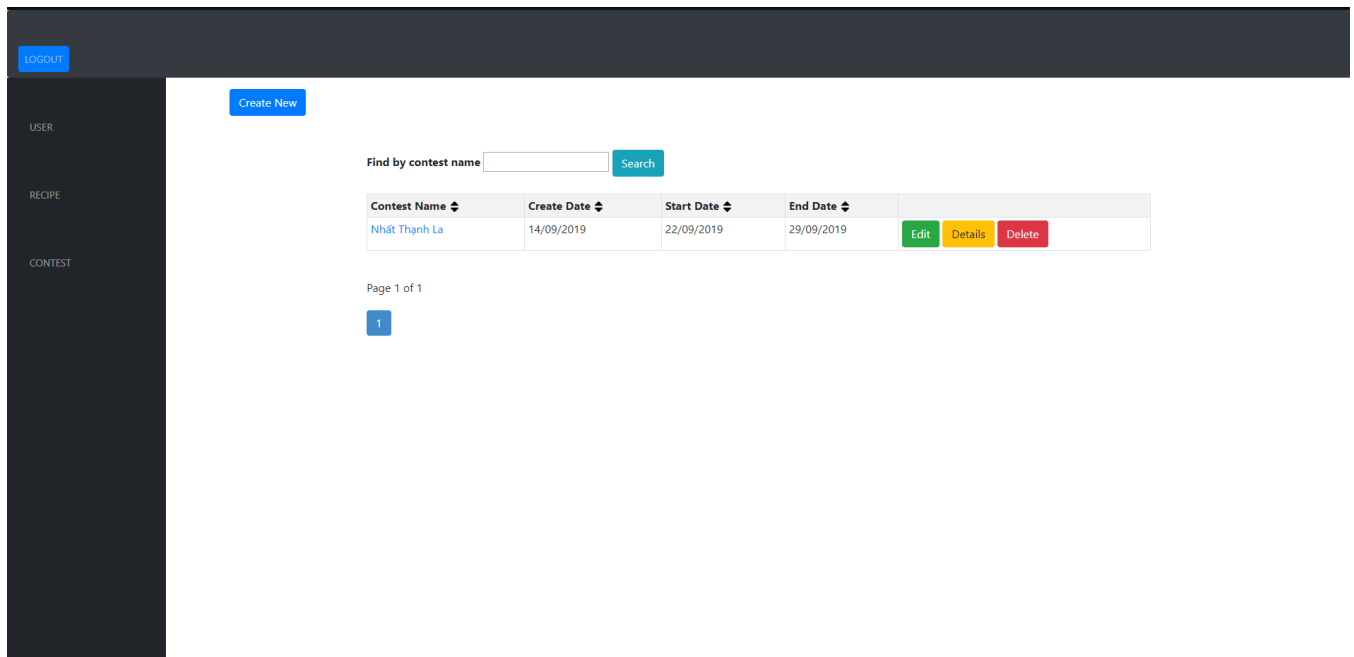
File Edit View Format

 Paragraph

POWERED BY TINY

[Back to List](#)

➤ Admin page:



- **Overview:** need add “/admin” in URL to redirect to admin page when login with admin account.
 - Admin create new, edit and delete recipes, contest.
 - Admin can disable/enable the user account.

8.2 Screenshot of Code

```
public class pass
{
    //custom basic hashPass
    1 reference | zachpro1935, 15 days ago | 1 author, 1 change
    public static string HashPassword(string password)
    {
        byte[] salt;
        byte[] buffer2;
        if (password == null)
        {
            throw new ArgumentNullException("password");
        }
        using (Rfc2898DeriveBytes bytes = new Rfc2898DeriveBytes(password, 0x10, 0x3e8))
        {
            salt = bytes.Salt;
            buffer2 = bytes.GetBytes(0x20);
        }
        byte[] dst = new byte[0x31];
        Buffer.BlockCopy(salt, 0, dst, 1, 0x10);
        Buffer.BlockCopy(buffer2, 0, dst, 0x11, 0x20);
        return Convert.ToBase64String(dst);
    }

    2 references | zachpro1935, 15 days ago | 1 author, 1 change
    public static bool VerifyHashedPassword(string hashedPassword, string password)
    {
        byte[] buffer4;
        if (hashedPassword == null)
        {
            return false;
        }
        if (password == null)
        {
            throw new ArgumentNullException("password");
        }
    }
}
```

Hash the password

```
// Custom Authorize
4 references | zachpro1935, 15 days ago | 1 author, 1 change
public string role { get; set; }
context db = new context();
0 references | zachpro1935, 15 days ago | 1 author, 1 change
protected override bool AuthorizeCore(HttpContextBase httpContext)
{
    if (HttpContext.Current.Session["userId"] == null)
    {
        return false;
    }
    var id = HttpContext.Current.Session["userId"].ToString();
    string userRole = db.user.Find(Guid.Parse(id)).role; // Call another method to get rights of the user from DB
    if (userRole == "ROLE_ADMIN")
    {
        return true;
    }
    return userRole.Contains(this.role);
}

//custom authorize
[AuthorizeUser(role = "ROLE_ADMIN")]
0 references | zachpro1935, 6 days ago | 1 author, 1 change
public ActionResult user(string search)
{
    if(search != null)
    {
        return View(db.user.Where(c => c.role == "ROLE_USER" && (c.email.Contains(search) || c.name.Contains(search)) ));
    }
    return View(db.user.Where(c => c.role == "ROLE_USER"));
}
```

Authorized user

```

public override void Up()
{
    //migra file for generate table
    CreateTable(
        "dbo.Contests",
        c => new
        {
            id = c.Guid(nullable: false, identity: true),
            name = c.String(nullable: false, maxLength: 30),
            createdAt = c.DateTime(nullable: false),
            startDate = c.DateTime(nullable: false),
            endDate = c.DateTime(nullable: false),
        })
        .PrimaryKey(t => t.id);

    CreateTable(
        "dbo.FeedBacks",
        c => new
        {
            id = c.Guid(nullable: false, identity: true),
            content = c.String(nullable: false, maxLength: 150),
            createdAt = c.DateTime(nullable: false),
            own = c.Guid(nullable: false),
            recipe_id = c.Guid(nullable: false),
        })
        .PrimaryKey(t => t.id)
        .ForeignKey("dbo.Recipes", t => t.recipe_id, cascadeDelete: true)
        .ForeignKey("dbo.Users", t => t.own, cascadeDelete: true)
        .Index(t => t.own)
        .Index(t => t.recipe_id);

    CreateTable(
        "dbo.Recipes",
        c => new

```

Create table

1 reference | zachpro1935, 15 days ago | 1 author, 1 change

```

public class Mail
{
    //mail sending
    1 reference | zachpro1935, 15 days ago | 1 author, 1 change
    public void sendVerifyMail(string body, string to)
    {
        SmtpClient client = new SmtpClient();
        MailMessage emailMessage = new MailMessage();

        emailMessage.From = new MailAddress("localhost@gmail.com");
        emailMessage.To.Add(new MailAddress(to));
        emailMessage.Subject = "Verify Email";
        emailMessage.Body = body;
        client.Send(emailMessage);
    }
}

```

Verify mail of User

```

public class User
{
    0 references | zachpro1935, 15 days ago | 1 author, 1 change
    public User()
    {
        this.role = "ROLE_USER";
        this.enabled = false;
    }
    [Key]
    [DatabaseGenerated(DatabaseGeneratedOption.Identity)]
    5 references | zachpro1935, 15 days ago | 1 author, 1 change
    public Guid id { get; set; }
    [MaxLength(30)]
    [Required(ErrorMessage = "user name not blank!")]
    4 references | zachpro1935, 15 days ago | 1 author, 1 change
    public string name { get; set; }
    [Required(ErrorMessage = "not blank!")]
    11 references | zachpro1935, 15 days ago | 1 author, 1 change
    public string pass { get; set; }
    [Required(ErrorMessage = "not blank!")]
    [MaxLength(30)]
    [EmailAddress(ErrorMessage = "Invalid Email Address")]
    [Index(IsUnique = true)]
    16 references | zachpro1935, 15 days ago | 1 author, 1 change
    public string email { get; set; }
    [Required(ErrorMessage = "not blank!")]
    1 reference | zachpro1935, 15 days ago | 1 author, 1 change
    public string gender { get; set; }
    [Required(ErrorMessage = "You must provide a phone number")]
    //[Display(Name = "Home Phone")]
    [DataType(DataType.PhoneNumber)]
    [RegularExpression(@"^\d{10,12}$", ErrorMessage = "Not a valid phone number")]
    2 references | zachpro1935, 15 days ago | 1 author, 1 change
    public string phone { get; set; }
    4 references | zachpro1935, 15 days ago | 1 author, 1 change
    public string role { get; set; }

    [DataType(DataType.DateTime)]

```

Validate on User entity

1 reference | zachpro1935, 1 day ago | 1 author, 1 change

`public class DateTimeConvert``{``//convert date time to ago format`

1 reference | zachpro1935, 1 day ago | 1 author, 1 change

`public static string TimeAgo(DateTime dt)``{``if (dt > DateTime.Now)``return "about sometime from now";``TimeSpan span = DateTime.Now - dt;``if (span.Days > 365)``{``int years = (span.Days / 365);``if (span.Days % 365 != 0)``years += 1;``return String.Format("about {0} {1} ago", years, years == 1 ? "year" : "years");``}``if (span.Days > 30)``{``int months = (span.Days / 30);``if (span.Days % 31 != 0)``months += 1;``return String.Format("about {0} {1} ago", months, months == 1 ? "month" : "months");``}``if (span.Days > 0)``return String.Format("about {0} {1} ago", span.Days, span.Days == 1 ? "day" : "days");``if (span.Hours > 0)``return String.Format("about {0} {1} ago", span.Hours, span.Hours == 1 ? "hour" : "hours");``if (span.Minutes > 0)``return String.Format("about {0} {1} ago", span.Minutes, span.Minutes == 1 ? "minute" : "minutes");`

Timestamp to time ago

Task Sheet Review III

Project Ref. No: 4	Project Title: JamestheW.com	Date of Preparation of Activity Plan			
No.	Task	Actual Start Date	Actual Days	Team Member Names	Status
01	Application analyse	Sep 1, 2019	20	La Thanh Nhat, Bui Trong Nghia, Nguyen Trong Dang	Completed
02	Interface Design			Mai Trung Nguyen	Completed
03	Database Design			La Thanh Nhat	Completed
04	Manage Contest (Admin page)			Nguyen Ngoc Son	Completed
05	Manage Recipe (Admin page)			Nguyen Trong Dang	Completed
06	Manage User (Admin page)			Bui Trong Nghia	Completed
07	Login/Register			La Thanh Nhat	Completed
08	Verify Email User			La Thanh Nhat	Completed
09	Authorization User			Bui Trong Nghia	Completed
10	Feedback(comment) Recipe			Mai Trung Nguyen	Completed
11	Rating Recipe			Nguyen Trong Dang	Completed
12	Home page			Mai Trung Nguyen	Completed
13	Recipe detail page			La Thanh Nhat	Completed
14	Contest page			Nguyen Ngoc Son	Completed
15	Paging function			Nguyen Ngoc Son	Completed
16	Sort function			Nguyen Ngoc Son	Completed
17	Design Admin page			Mai Trung Nguyen	Completed
18	Search function			Bui Trong Nghia	Completed
19	All recipe page			Nguyen Trong Dang	Completed
20	Join code and test			ALL Members	Completed
21	Final Report & document			ALL Members	Completed