Studio Assessment Task 2

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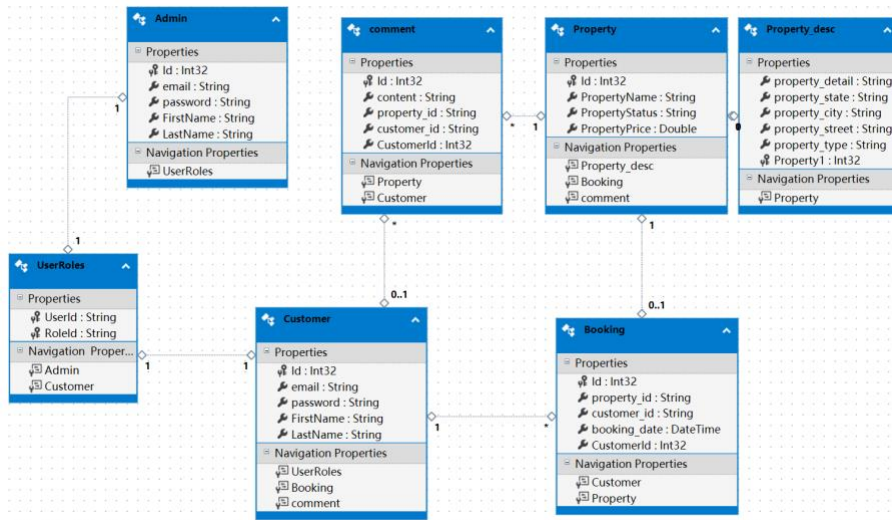## 1 ER diagram

figure 1: Entity relationship diagram

2 Home Controller implementation with user registration and authentication

figure 2: Screenshot of HomeController (Git link:

```csharp
1   using System;
2   using System.Collections.Generic;
3   using System.Linq;
4   using System.Web;
5   using System.Web.Mvc;
6   using System.ComponentModel.DataAnnotations;
7   using System.ComponentModel.DataAnnotations.Schema;
8
9   namespace FIT5032_login_regist.Models
10  {
11      public class User
12      {
13          [Key, Column(Order = 1)]
14          [DatabaseGeneratedAttribute(DatabaseGeneratedOption.Identity)]
15          public int idUser { get; set; }
16          [Required]
17          [StringLength(50, MinimumLength = 3)]
18          public string FirstName { get; set; }
19          [Required]
20          [StringLength(50, MinimumLength = 3)]
21          public string LastName { get; set; }
22          [Required]
23          [RegularExpression(@"[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}")]
24          public string Email { get; set; }
25
26          [Required]
27          [RegularExpression(@"^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).{8,15}$")]
28
29          public string Password { get; set; }
30
31          [NotMapped]
32          [Required]
33          [System.ComponentModel.DataAnnotations.Compare("Password")]
34          public string ConfirmPassword { get; set; }
35          public string FullName()
36          {
37              return this.FirstName + " " + this.LastName;
38          }
39      }
40  }
```
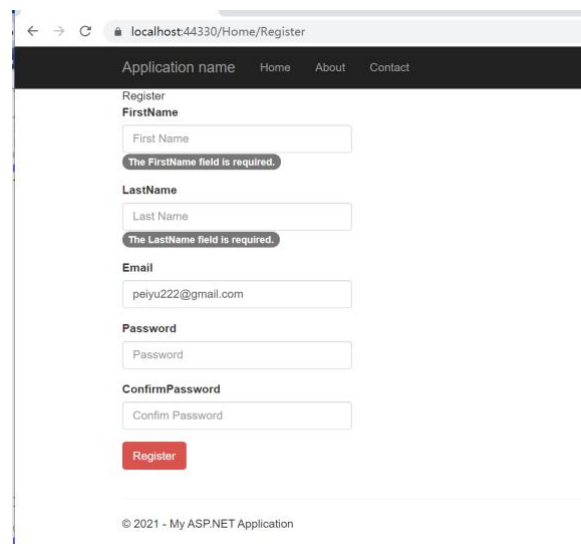
figure 3: Authentication (Git link: https://github.com/SukiGit2021/FIT5032/blob/04156b9164b0e399515f3e9cb727ae0ead39f95e/FIT5032_login_regist/Models/User.cs)

figure 4: Registration authentication

figure 5: Registration authentication

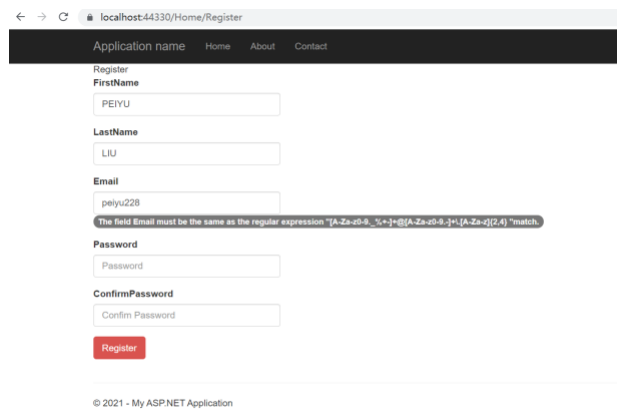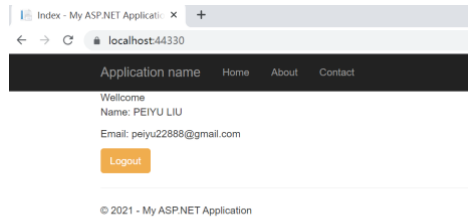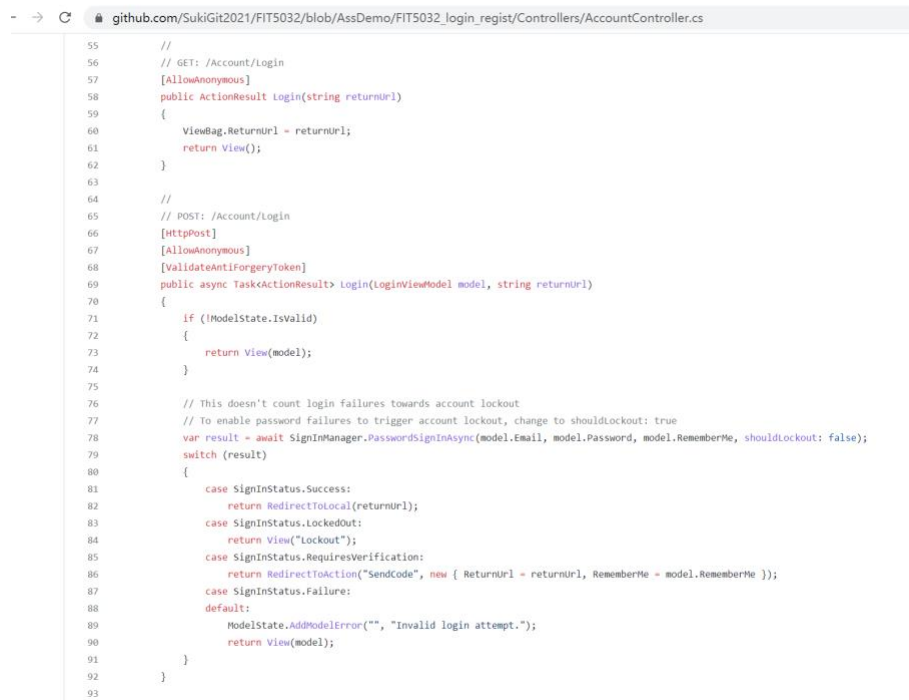*figure 6: Log in*

3 Usability evaluation

figure 7: Usability (Git link: https://github.com/SukiGit2021/FIT5032/blob/04156b9164b0e399515f3e9cb727ae0ead39f95e/FIT5032_login_regist/Controllers/AccountController.cs)

Consistency： use bootstrap style as UI design. All pages are consisting of the same style.

Error prevention: When customers register accounts or log in, the server will prevent errors before they log in successfully(show in figure 4 & figure 5).

Help users recognise, diagnose, and recover from errors: The system will remind users to input the correct format when using a registered account(show in figure 4).

Declaration

I declare that this Studio Assessment Task 2 report is my individual work. I have not copied from any other student's work or from any other source except where due acknowledgment is made explicitly in the report, nor has any part of this submission been written for me by another person.

Signature: PEIYU LIU