



FIT5032 Design Report (Distinction Code Task)

Strawberry News Agency

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Content

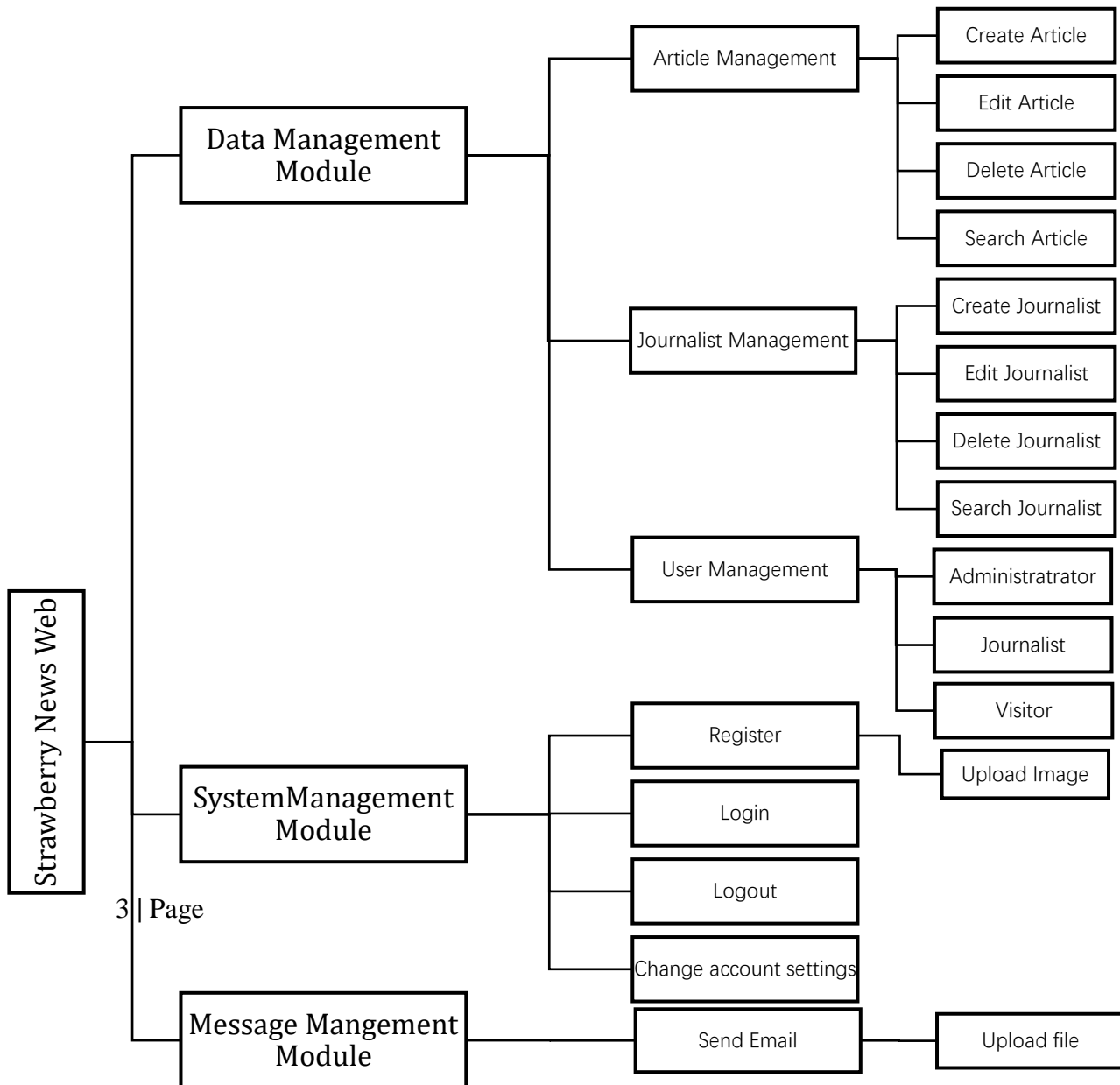
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1. Overview

The Strawberry News Agency is a simple website that helps the news agency staffs manage and record news operational data efficiently. In the Strawberry News Agency website, users could record and edit the information of their articles and journalists. The searching and sorting functionality can greatly increase the usability and effectiveness of this website. The goal of creating this website is reducing mechanical equipment cost and boosts work efficiency for the news agency.

You can use the admin account (Email: Abc@111.com, Password: Abc@111.com) to test the functions in this website.

2. Functional diagram



3. Core program functionality

- **3.1 Data Management Module (in Article, Journalist and User Management)**

- a) Create new:



- User creates a new element (**Administrator can create Journalists; Journalist can create their individual articles only; Only admin could create new users in the admin page**) by clicking the create new function. In the article, user should enter the article title, journalist, topic, and date. In the Journalists creating part, it should be added first name, last name, email and phone number.
 - By using MVC, after setting up the database which include two tables (article and journalist) and the model which is ADO.NET Entity Data Model, the step of building controllers connects with the database and establish the create function automatically.

It is worth mentioning that in the create function (in the article part), the jQuery- UI- datetimepicker is added in the part of publish date of article.

This function makes users enter the date format more efficiently. For this, the jQuery-datetimepicker should be installed in the NuGet (in the reference), and then a new functional method should be created in a script file to realize the function.

- b) Edit



- Users could edit an existing element in the article and journalist by clicking the edit button (**Administrator can edit Journalists but have not the permission of editing articles; Journalist can only edit their own articles**). When the user finish editing and enter the submit button, the old data will be

replaced by the new one. Users could either change a part of the old information or the whole data.

- By using MVC, after setting up the database which include two tables (article and journalist) and the model which is ADO.NET Entity Data Model, the step of building controllers connects with the database and establish the edit function automatically. The edit function (in the article part) also used the UI-datetimepicker.

c) Details

A rectangular button with a dark red background and the word "Details" in a light blue, sans-serif font.

- By choosing the details button (**Administrator, Journalist and Visitor can all see the details of articles and journalist index; Only admin could check the details of all users**), it will show users the history information of the article and journalist line by line. Users can check the information but could not change them.
- By using MVC, after setting up the database which include two tables (article and journalist) and the model which is ADO.NET Entity Data Model, the step of building controllers connects with the database and establish the details function automatically.

d) Delete

A rectangular button with a light red background and the word "Delete" in a dark blue, sans-serif font.

- The delete button is created for the user when want delete an old information (**Admin could delete a journalist; Journalist can delete his/her own articles**). When they click the delete button at the end of every piece of information, the whole information of this piece of data will be deleted. Before that, the system also mentions and double check that this action to users.
- By using MVC, after setting up the database which include two tables (article and journalist) and the model which is ADO.NET Entity Data Model, the step of building controllers connects

with the database and establish the delete function automatically.

e) Show entries



- By clicking the show entries button, user can choose the number of entries showing on one page. It is useful when it has a large amount of data and the page will not seem very messy. There a few choice users can choose: 10, 25, 50, 100 entries.
- This function is added by downloading a jQuery script bundle called Datatable. After putting it in the Script directory, it should also be mentioned a render on the layout page. It is also should be create a functional method in the JavaScript file and create a render in on the Index file which we need it. (article and journalist)

f) Searching



- In the searching function, users could be entering the keywords to searching for a specific information they want to find. The scope of the searching is the all the entities in the database. If there is no matched result, the system will also display a sentence to inform users.
- This function is added by downloading a jQuery script bundle called Datatable. After putting it in the Script directory, it should also be mentioned a render on the layout page. It is also should be create a functional method in the JavaScript file and create a render in on the Index file which we need it. (article and journalist)

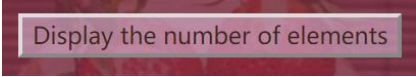
g) Sorting

- After clicking the sort button(icon), the information result will display in the negative sequence and if click it twice, it will return to the positive sequence. And the sequence is

according to the date initially, but users can also change to the other entities which they want to sort.

- In terms of the sorting function, it is also provided by jQuery-data table. The processing of released it is as same as the sorting function.

h) Display elements

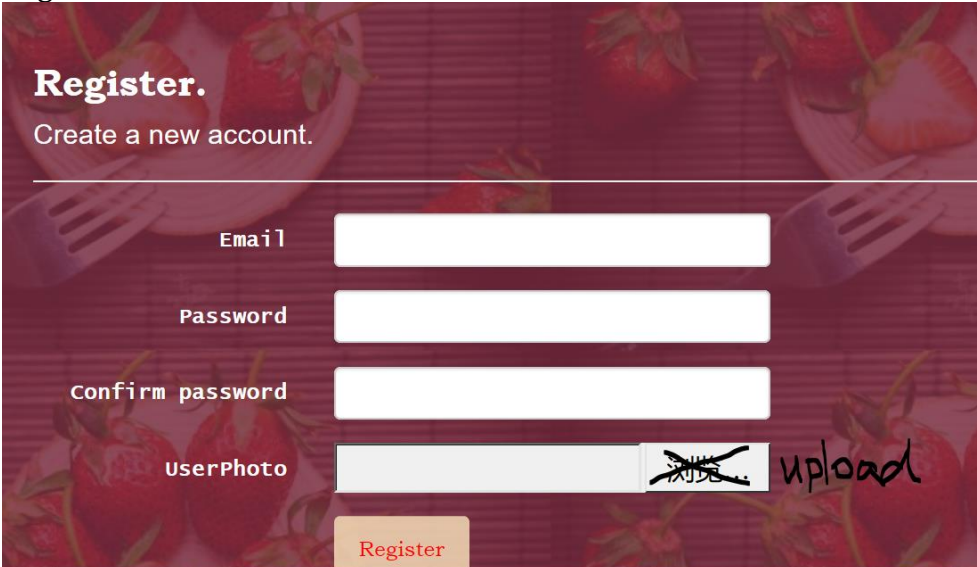


Display the number of elements

- Display elements is a simple function that could provide the total pieces number of information on the article and journalist page.
- The function is realized by JavaScript. It needs to add a new method, at here we called displayElement, and connect it to the specific index view we want.

• 3.2 System Management Module

a) Registration



Register.
Create a new account.

Email

Password

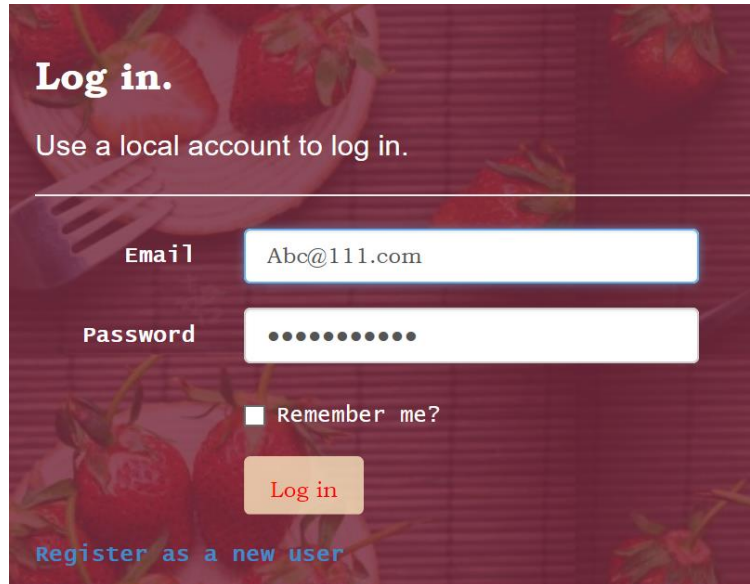
Confirm password

UserPhoto ~~image~~ upload

Register

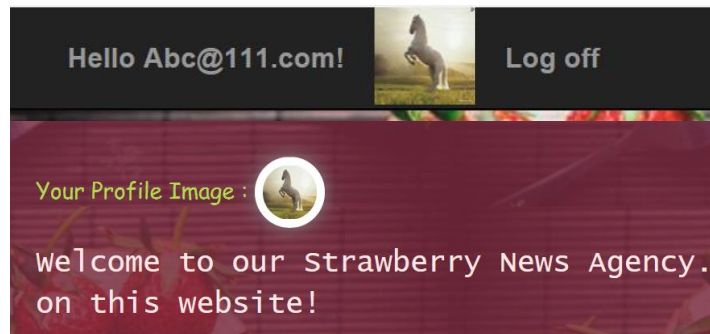
In the register part, user need to add the above information to complete registration. The images which they uploaded will be saved at the path of ~/Content/Images/.

b) Login



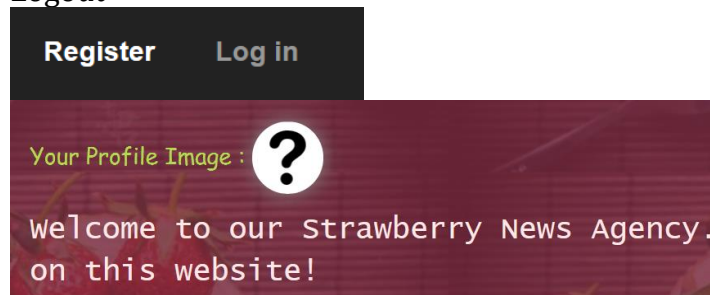
The login form is titled "Log in." and instructs the user to "Use a local account to log in." It features two input fields: "Email" with the value "Abc@111.com" and "Password" with masked characters. A "Remember me?" checkbox is present below the password field. A "Log in" button is located at the bottom right of the form. A link "Register as a new user" is positioned at the bottom left of the form area.

In this part, user need to enter the email and password which are already saved in database. And the password will be hidden.



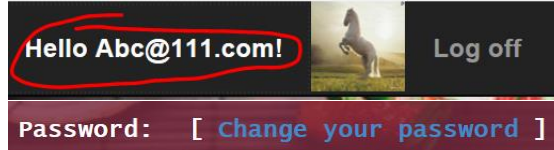
After login, the profile image and welcome words will be displayed on the home page.

c) Logout

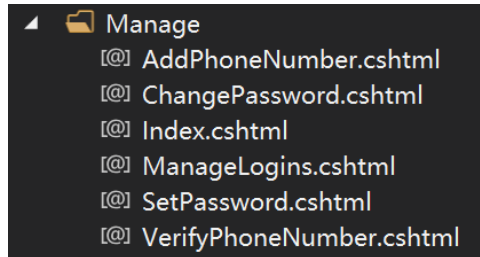


When the user chose to logout, the home page will return to original page and the profile image will be changed to an question mark image.

d) Change account settings



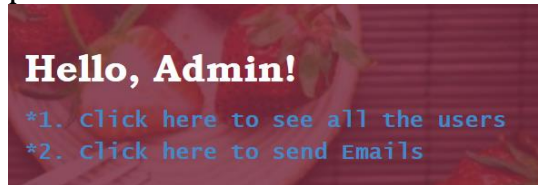
When the users want to change their password, they need to click the above link and it will go to the view of Mange as the following snap.

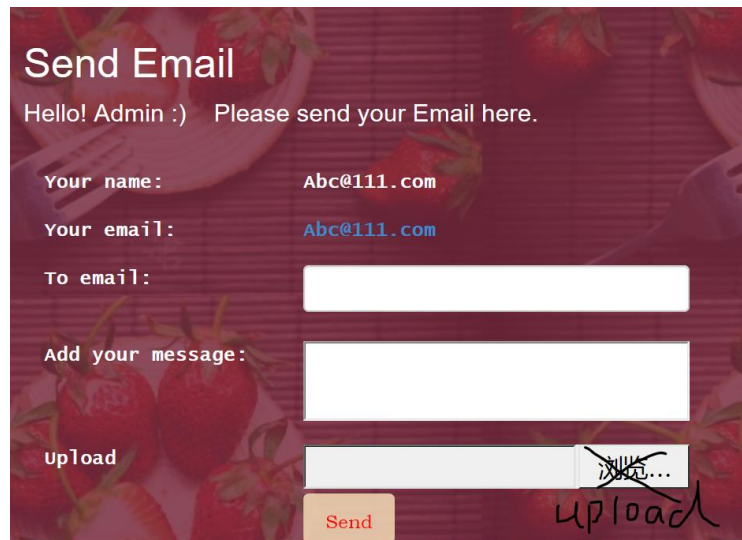


- **3.2 System Management Module**

a) Sending Emails

This function is only belongs to the administrator (email: Abc@111.com, password: Abc@111.com in this website). After login, there are two links on the admin page as the following picture.





Send Email

Hello! Admin :) Please send your Email here.

Your name: Abc@111.com

Your email: Abc@111.com

To email:

Add your message:

upload ~~delete...~~ *upload*

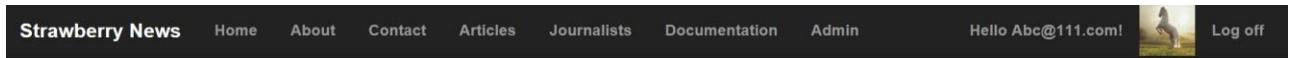
At the send email view, the admin does not need to enter his/her email because it is retrieve from database automatically. In this page, uploading file function is also offered. And the file will be saved on the path of ~/Uploads/ which is regulated in the FileUploadController.

4. Usability Design Review

(Based on the Flow Bohl usability categories)

a) Navigation

Navigation means gives users a clear guide. In the Strawberry News Agency, the navigation part is concise and clear. It is separate into six parts, as the following picture. At the same time, the black background and white word makes the website seem not complexity.



b) Familiarity

Familiarity focus on meeting with user's expectations. The Strawberry News Agency fits their staffs in either the parts of language and interface components. Firstly, the English is the most convenient language in Australia and in this company. On the other side, the background interface is about strawberry, so it is suitable for this company name.

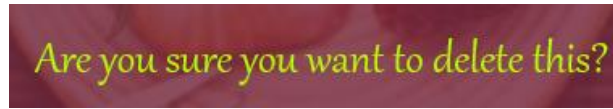


c) Consistency

To achieve better consistency, the uniformity is the most significant element. The website maintains a uniform interface theme in the whole website. The dark red is the theme color of the website and we use the fantasy as font family to try to provide a relaxed and fun working atmosphere for users.

d) Error prevention

In our website, some reasonable visual sign is designed for users to prevent the error event, such as showing in the following screenshot. At the same time, some more alerts will be added soon!



e) Feedback

Collecting feedback from users is another significant step of build a better website. In our website, we design two pages (About and Contact) to provide our contact information and welcome to users' suggestions. The screenshots are as follows.



f) Visual clarity

In terms of visual clarity, the website is easy to operate, we do not use any terminology and easy to misunderstand language, it is straightforward for any news agency staffs to use.

g) Flexibility and Efficiency

Whenever users record a new element in the website, it can create a lasting memory in the databases. At the same time, it is flexible enough to delete and close any processing without any obstacle.

At the end of our website journey, the distinct theme will leave a deep impression to users.



5. Checklist of site functionality

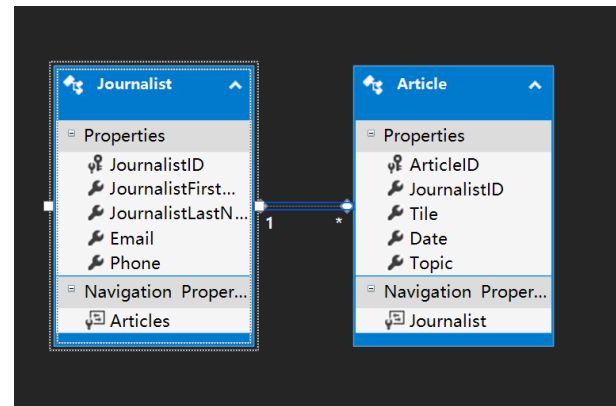
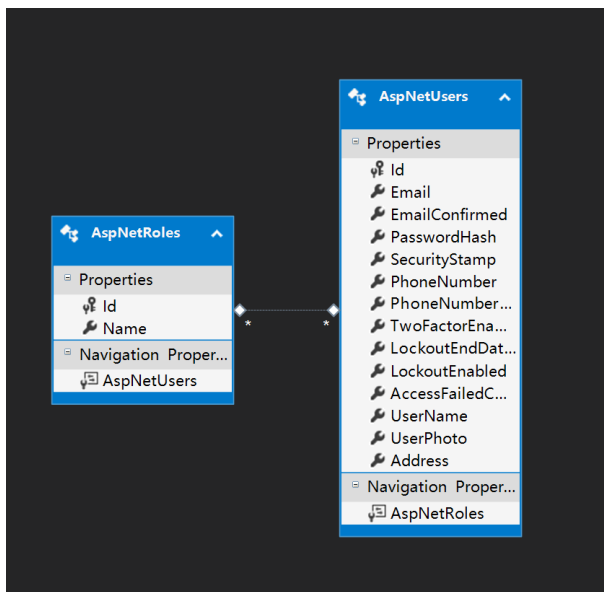
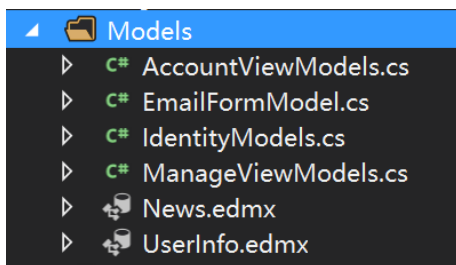
1. (Layout Page)	TICK if complete
Good Design	✓
Stylesheet	✓
Menu	✓
2. (Home page)	
Design and content	✓
Banner Image	✓
3. (Site Admin)	
Web form and validation controls	✓
Formatted data entry display	✓
Overall page design	✓
4. (About Us)	
About Us	✓
Our History	✓
Frequently Asked Questions	✓
5. (Documentation)	
Author/assignment details	✓
6 Additional Distinction Items	
Registration page	✓
Log in page	✓
Administrator to send emails	✓
Upload user image and Display	✓
Search through the list of people using name, email and address or a combination of all	✓
Audit	
No breaking of copyright	✓

6. User stories (that are driving your design decisions)

The initial template of asp.net mvc5 helps me well because it makes me build this website easily. When I working on the web at the beginning, I made a supermarket website caused by my carelessness, so the whole style of this News website is on the theme of strawberry. However, I personally think that the theme is also can be used in the news website and then I changed the name website to Strawberry News Agency.

By following the tutorial tasks, I completed several functions and search some of them online. Finally, I finished almost D level requirements.

7. Entity Relation Diagram (of your database/entities)



There are two database models in this website – News and UserInfo.

In the News model, it has entity of Journalist and Article inside. They have the FK called JournalistID which is the PK of the Journalist.

In the UserInfo model, it has Users and UserRoles. An the UserRoles Id is the FK of these two tables.

8. Data dictionary (of your application, including the main data structures and types used in your application.)

a. Article Table

Data Name	Type	Description	Restriction
ArticleID	int	Defines a unique article	Not null
JournalistID	nvarchar(128)	The FK links Article and Journalist table	Not null
Title	nvarchar(50)	The article's title	Not null
Date	nvarchar(50)	The article's publish date	Not null
Topic	nvarchar(50)	The article's topic	Not null

b. Journalist Table

Data Name	Type	Description	Restriction
JournalistID	Nvarchar(128)	Defines a unique journalist	Not null
JournalistFirstName	nvarchar(50)	The journalist's first name	Not null
JournalistLastName	nvarchar(50)	The journalist's last name	Not null
Email	nvarchar(50)	The journalist's email address	Not null
Phone	int	The journalist's phone number	Not null 10 digits

c. Roles Table

Data Name	Type	Description	Restriction
Id	nvarchar(128)	Defines a unique role	Not null
Name	nvarchar(256)	The name of role	Not null

d. Users Table

Data Name	Type	Description	Restriction
Id	nvarchar(128)	Defines a unique user	Not null
Email	nvarchar(256)	Email of user	
EmailConfirmed	bit	whether confirmed or nor	Not null
PasswordHash	nvarchar(MAX)	Password of the user	
SecurityStamp	nvarchar(MAX)	Security stamp of the user	
PhoneNumber	nvarchar(MAX)	Phone number of the user	
PhoneNumberConfirmed	bit	whether confirmed or nor	Not null
TwoFactorEnabled	bit	TwoFactorEnabled	Not null
LockoutEndDateUtc	datetime	LockoutEndDateUtc	
LockoutEnabled	bit	LockoutEnabled	Not null
AccessFailedCount	int	AccessFailedCount	Not null
UserName	nvarchar(256)	UserName	Not null
UserPhoto	varbinary(MAX)	UserPhoto	
Address	nvarchar(MAX)	Address	

e. UserRoles Table

Data Name	Type	Description	Restriction
UserId	nvarchar(128)	FK links the Users and Roles table	Not null
RoleId	nvarchar(128)	FK links the Users and Roles table	Not null