**Practice Project**

**MVC Application**

**Aim:**

To Create an MVC Application to Manage Data for School Application.

**Github link:**

[**https://github.com/Sukirthalakshmanan1/MVC**](https://github.com/Sukirthalakshmanan1/MVC)

**Procedure:**

* Create an ASP.NET Web application =>MVC application
* Create three class Library BAL(Business Access Logic layer),DAL,Helper classes.
* BAL class has the properties of the class and their validations
* DAL class has the logic to access the data from the database
* Helper class is used as an extra layer over DAL to hide the details of the logic
* Add Business Reference to DAL and Helper.
* Add DAL reference to Helper.
* Add Helper reference to MVC Application.
* Build the solution and set the dependencies.
* MVC depends on BAL and Helper
* Data Acccess Library depends on BLL
* Helper depends on BLL and DAL
* In Web config add the connection string to the database
* Create tables student,subjects,class
* And perform Insert,update,delete,search and details operation in the DAL class
* Update ,delete,and find the table using stored procedures.
* Create a model StudModel,submodel,classmodel
* Create a controller class
* Create views for Create,delete,details,Edit and list
* And run all

**Stored procedures:**

**Subjects:**

**Update:**

CREATE PROCEDURE [dbo].[Updatesubjects]

@p\_subid int,

@p\_subname varchar(20)

AS

BEGIN

UPDATE subjects SET subjects\_name = @p\_subname

WHERE subjects\_id=@p\_subid

END

**Delete:**

CREATE PROCEDURE [dbo].sp\_Deletesubjects

@p\_id int

AS

Delete from subjects

where subjects\_id=@p\_id;

RETURN 0

**Find subjects:**

Alter PROCEDURE [dbo].sp\_Findsubject

@p\_subid int,

@p\_name varchar(50) output

AS

SELECT

@p\_name=subjects\_name

from subjects where subjects\_id=@p\_subid;

RETURN 0

**Students and class:**

--delete student

CREATE PROCEDURE [dbo].sp\_Deletestudent

@p\_id int

AS

Delete from student

where student\_id=@p\_id;

RETURN 0

--find student

Alter PROCEDURE [dbo].sp\_Findstudent

@p\_stuid int,@p\_stuclass int output,

@p\_name varchar(20) output

AS

SELECT

@p\_name=student\_name ,@p\_stuclass=student\_class

from student where student\_id=@p\_stuid;

RETURN 0

--find class

create PROCEDURE [dbo].sp\_FindClass1

@p\_stuid int,@p\_stuclass int output

AS

SELECT @p\_stuclass=class\_strength

from Class1 where Room\_no=@p\_stuid;

RETURN 0

--update student table

Alter PROCEDURE [dbo].[Updatestudent]

@p\_stuid int,

@p\_stuname varchar(20),

@p\_stuclass int

AS

BEGIN

UPDATE student SET student\_name = @p\_stuname,

student\_class=@p\_stuclass

WHERE student\_id=@p\_stuid

END

--update class

Create PROCEDURE [dbo].[UpdatesClass1]

@p\_stuid int,

@p\_stuclass int

AS

BEGIN

UPDATE Class1 SET

class\_strength=@p\_stuclass

WHERE Room\_no=@p\_stuid

END

--delete class

CREATE PROCEDURE [dbo].sp\_Delete

@p\_id int

AS

Delete from Class1

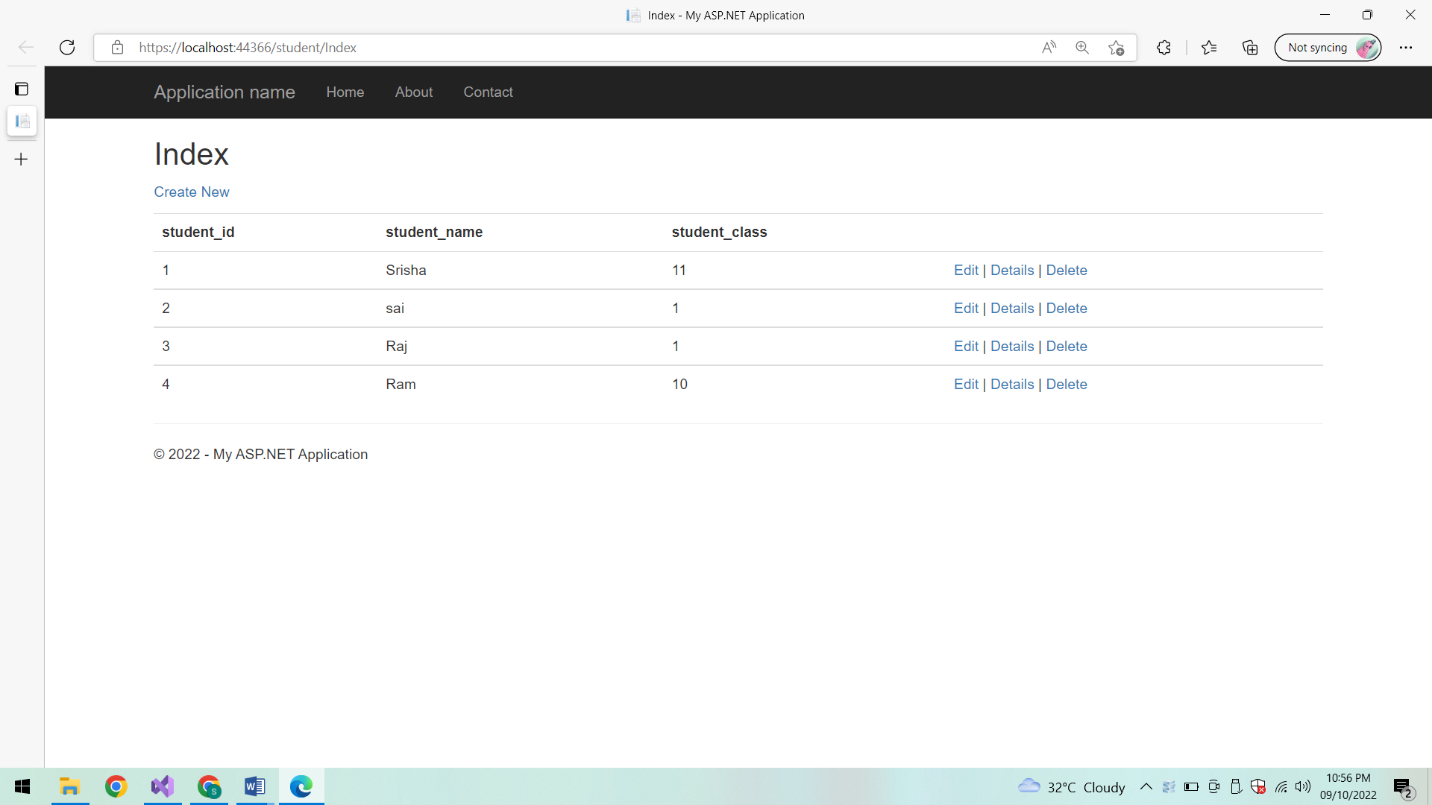
where Room\_no=@p\_id;

RETURN 0

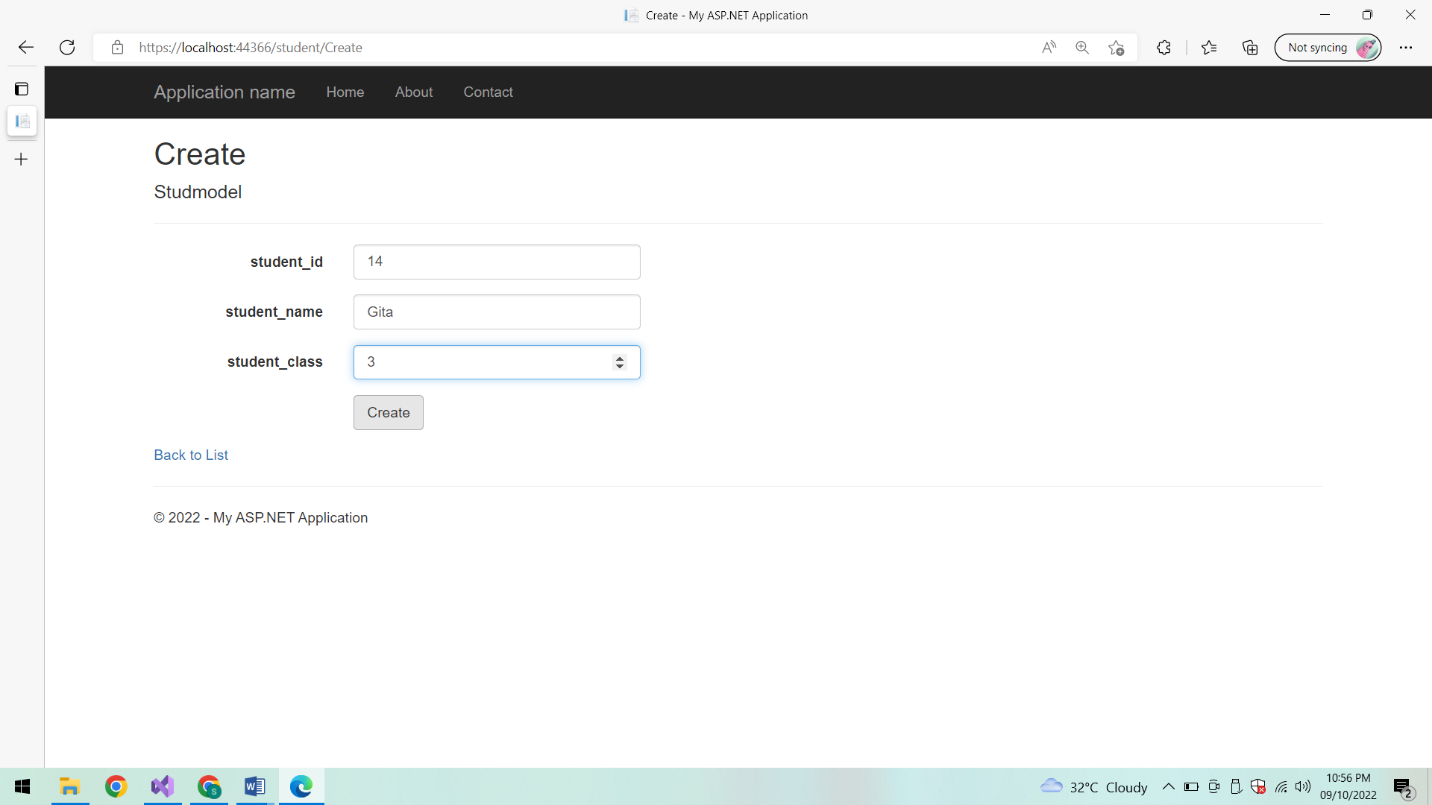
**Output:**

**Student:**

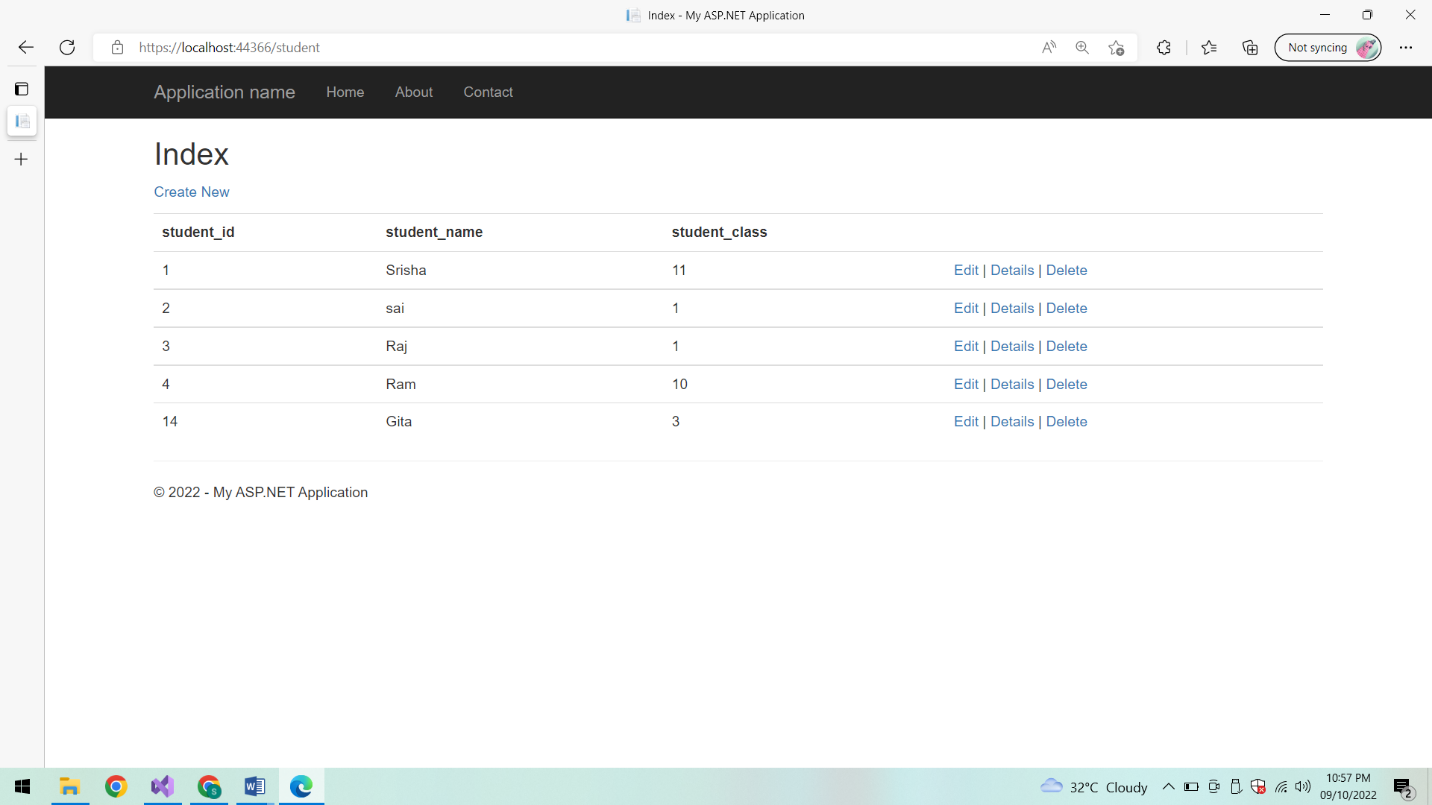
**List of students:**

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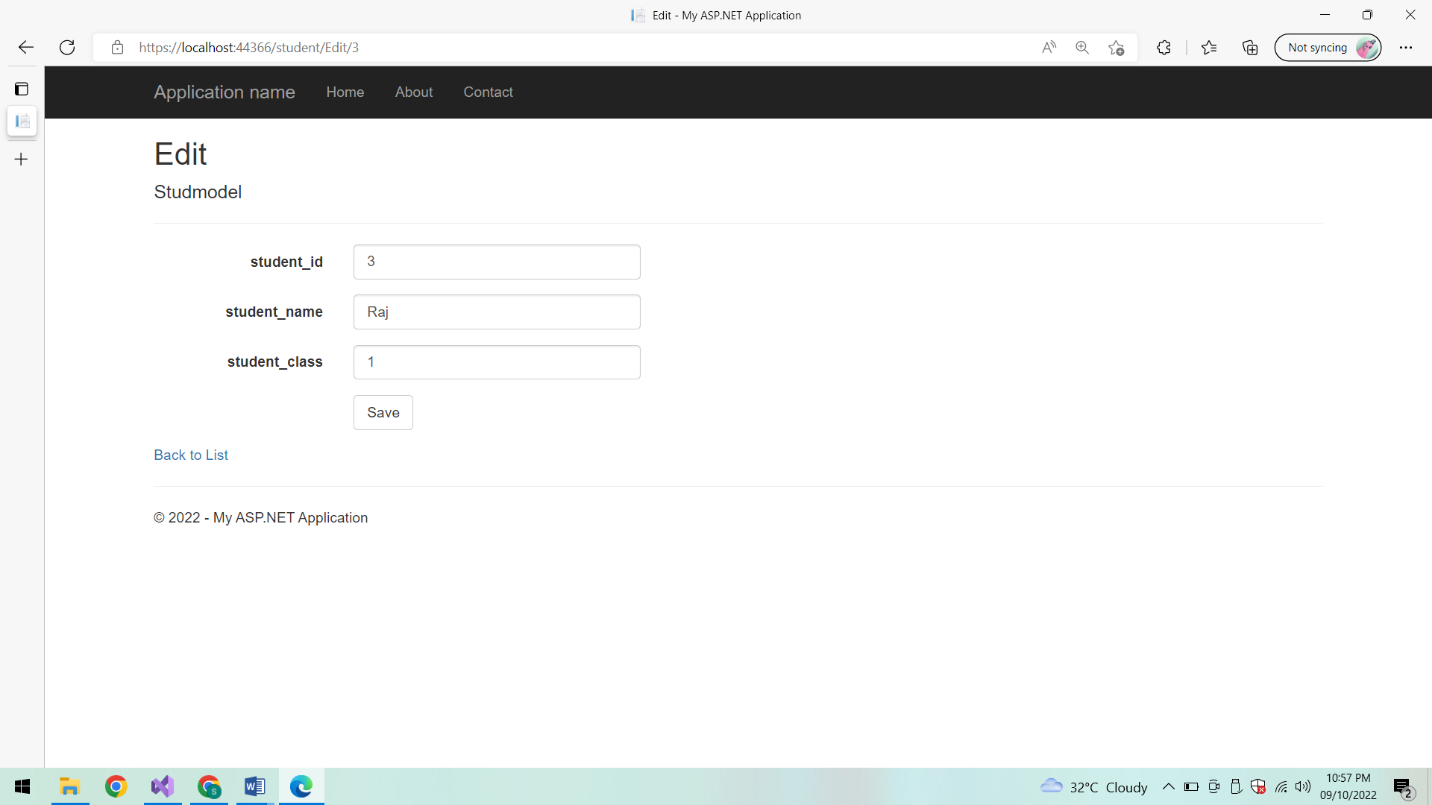
**Add a student:**

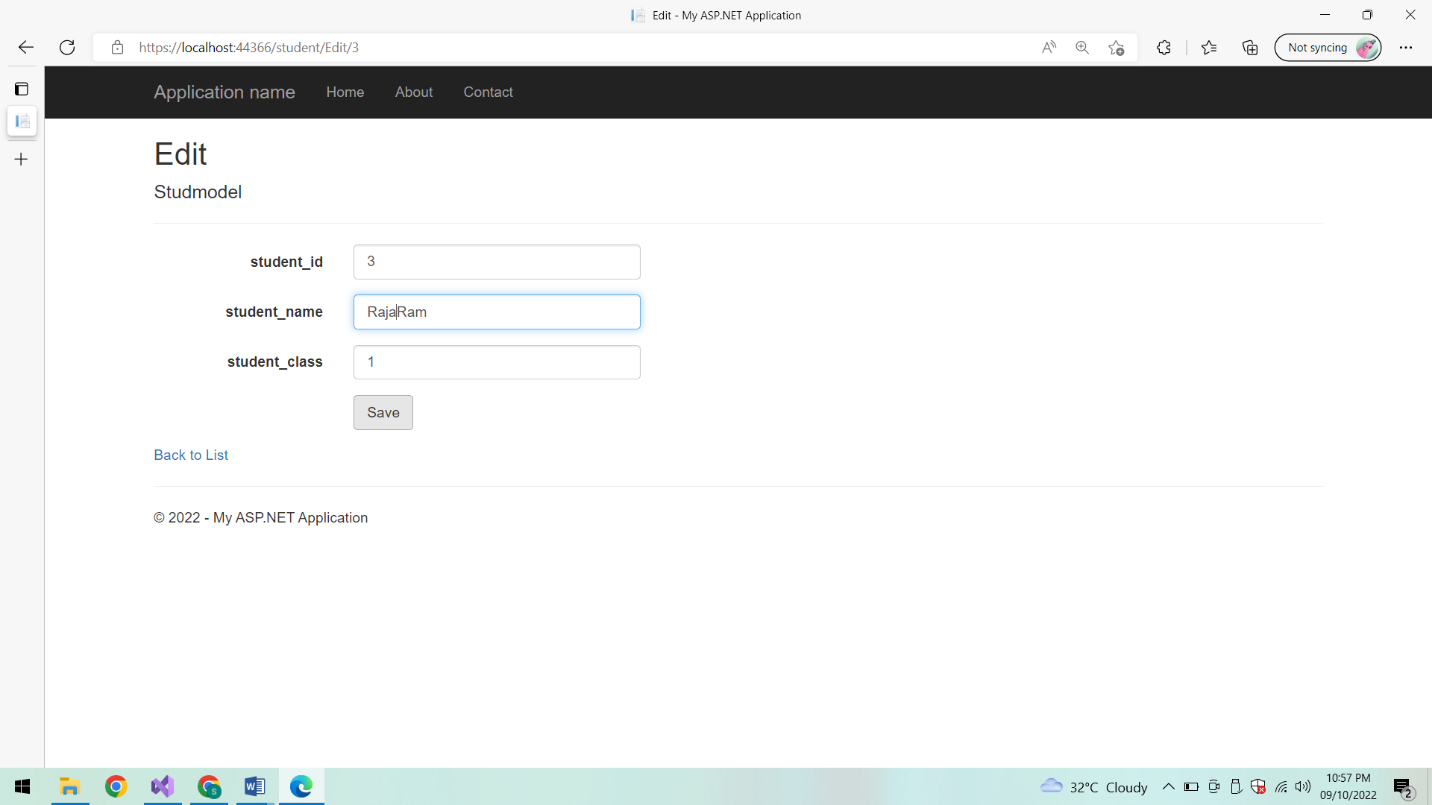
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**Student added:**

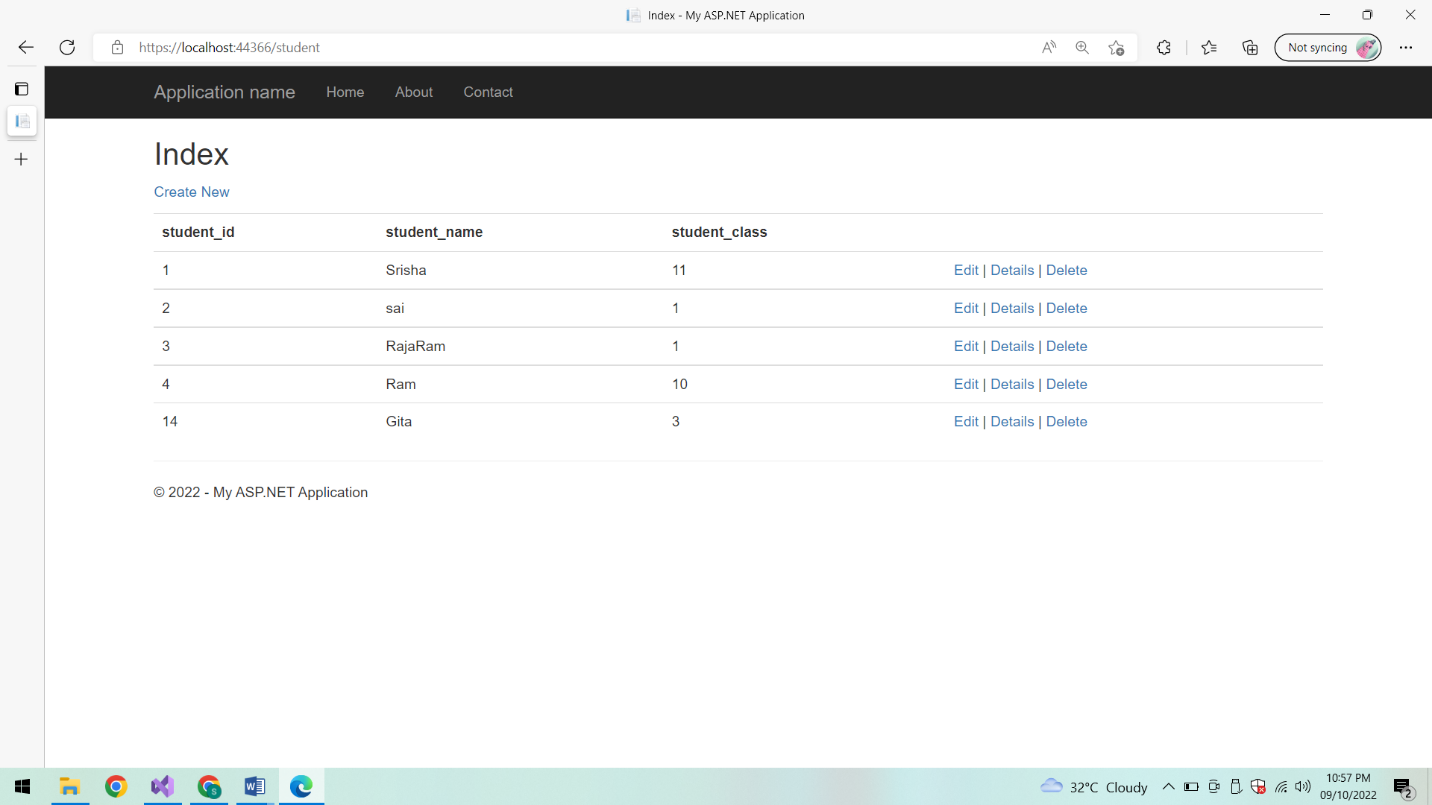
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**Edit the details of student:**

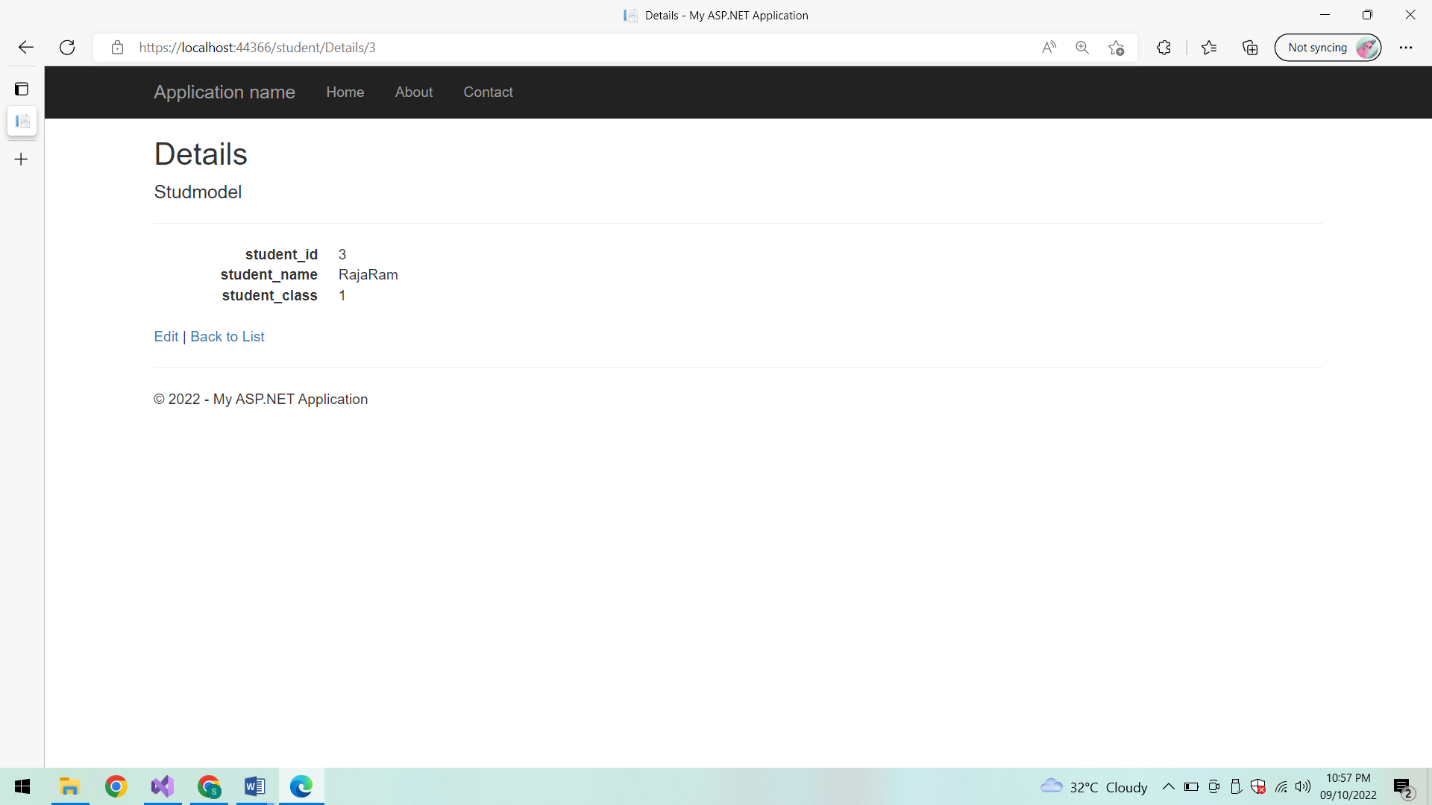
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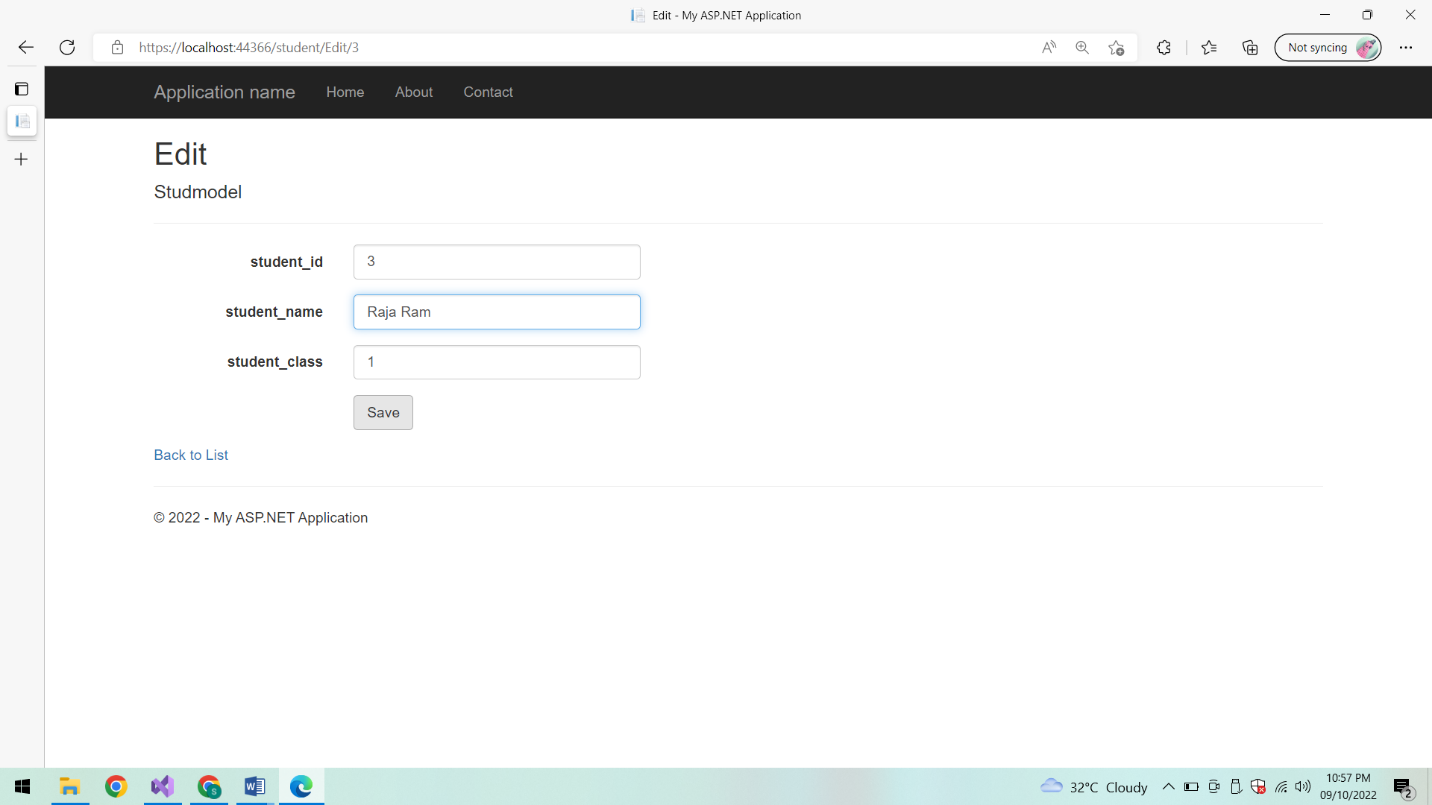
**After Editing List of students:**

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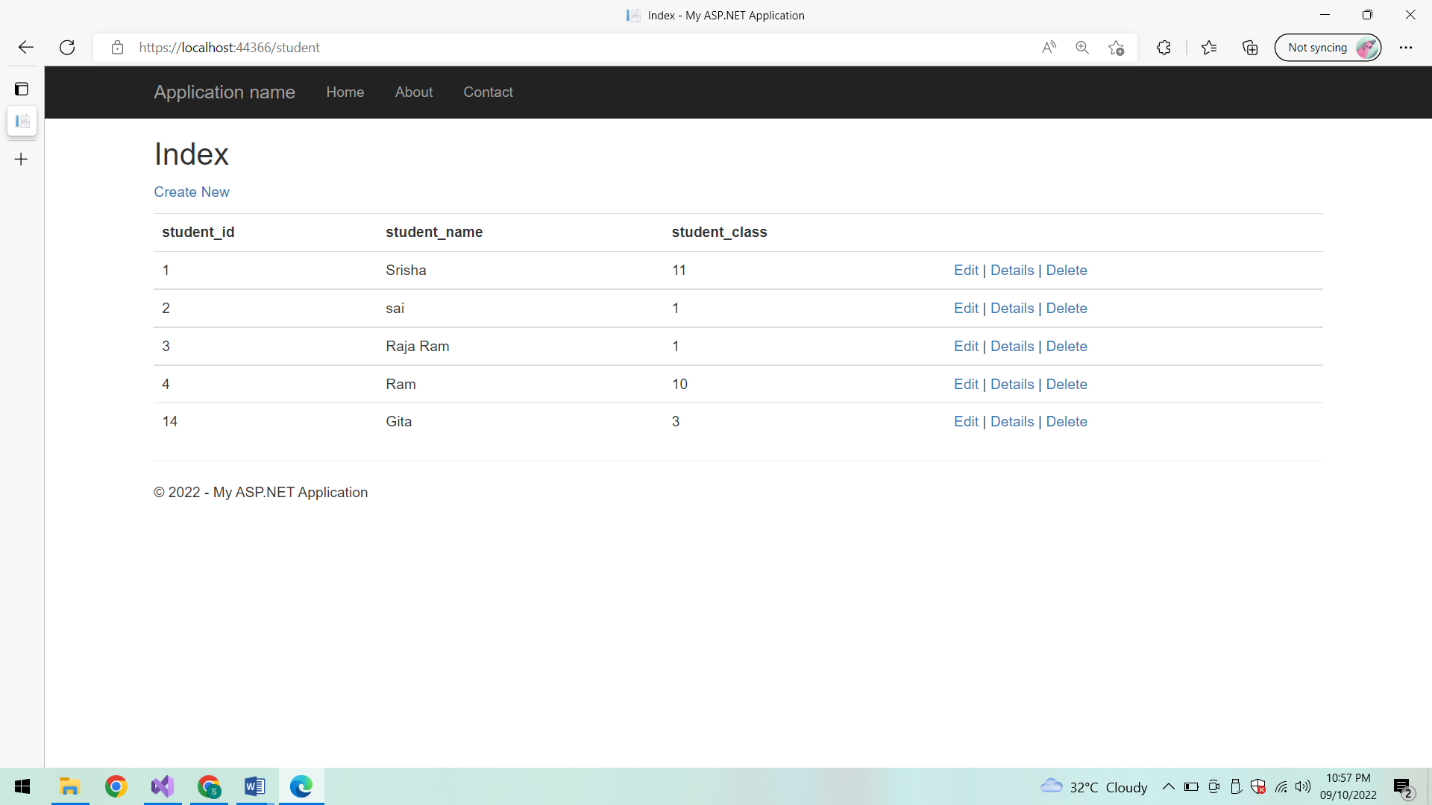
**Details of student:**

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**Edit:**

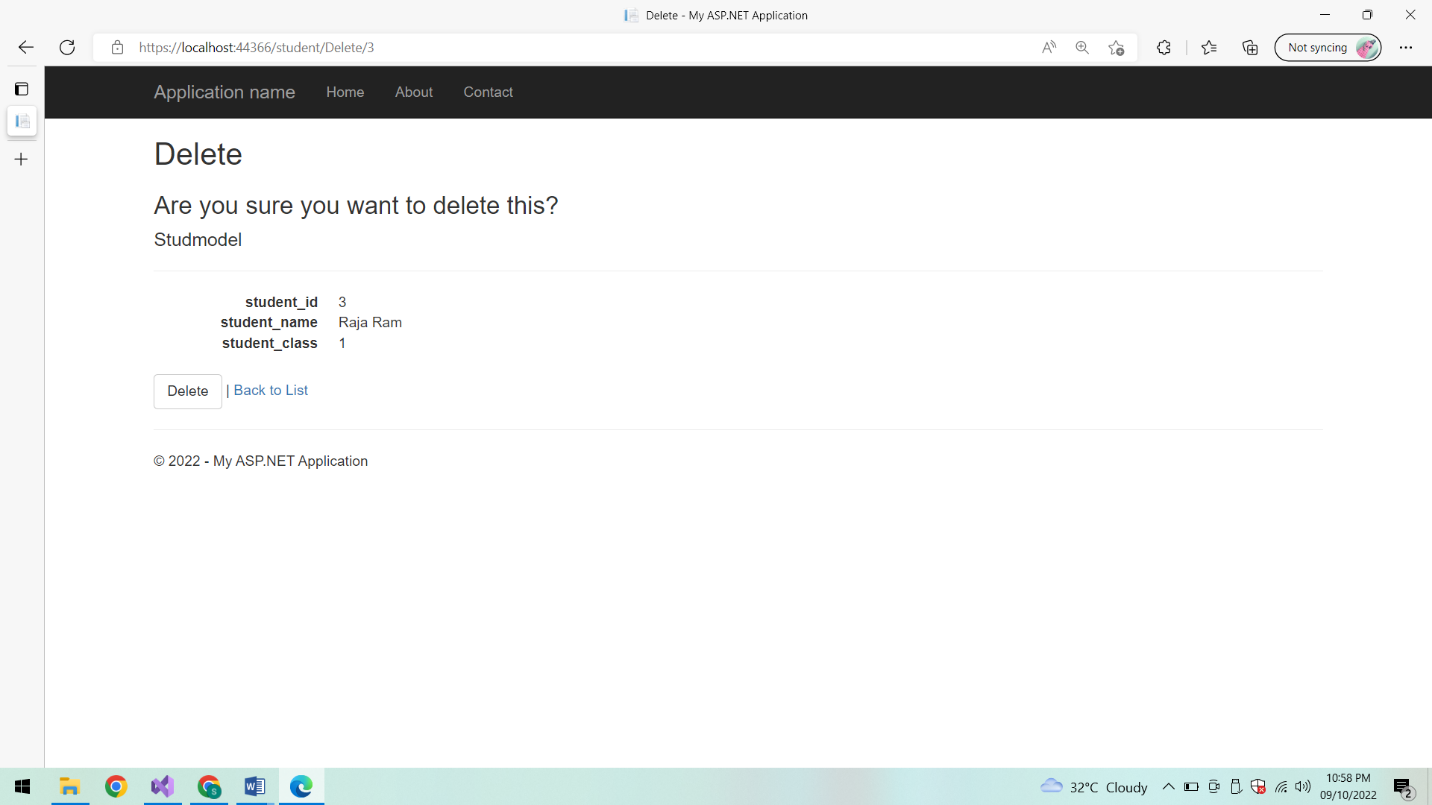
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**List of students:**

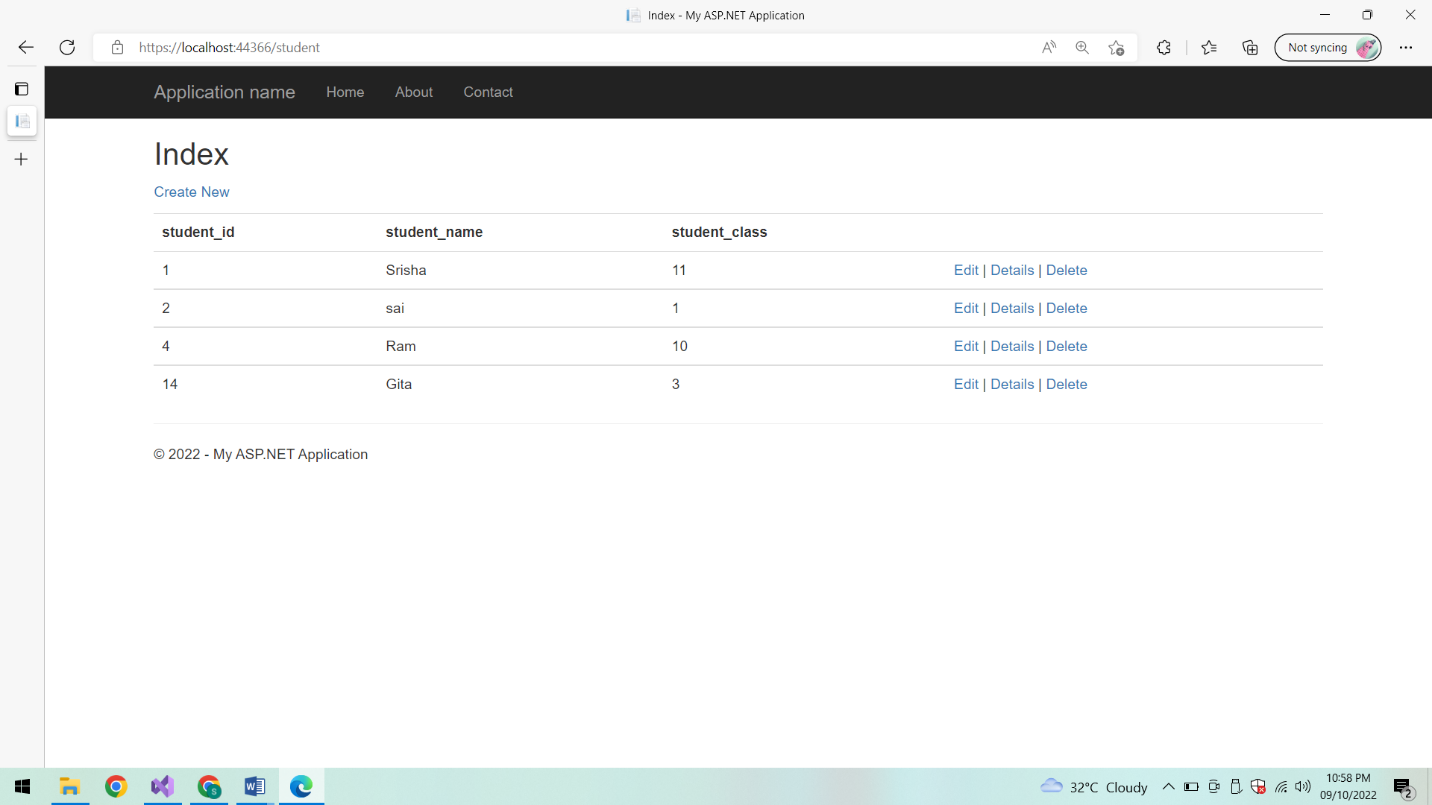
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**Delete student:**

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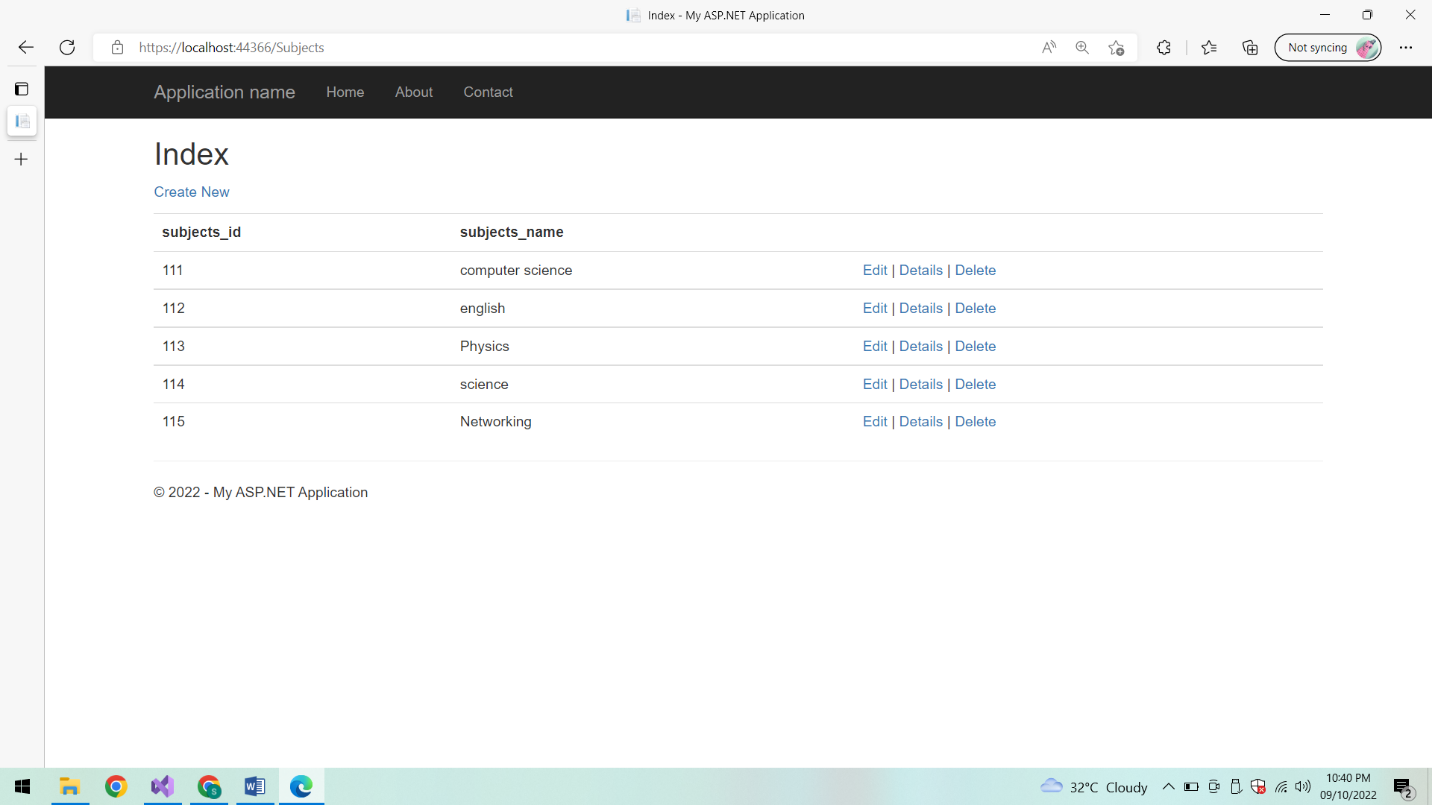
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**List of students:**

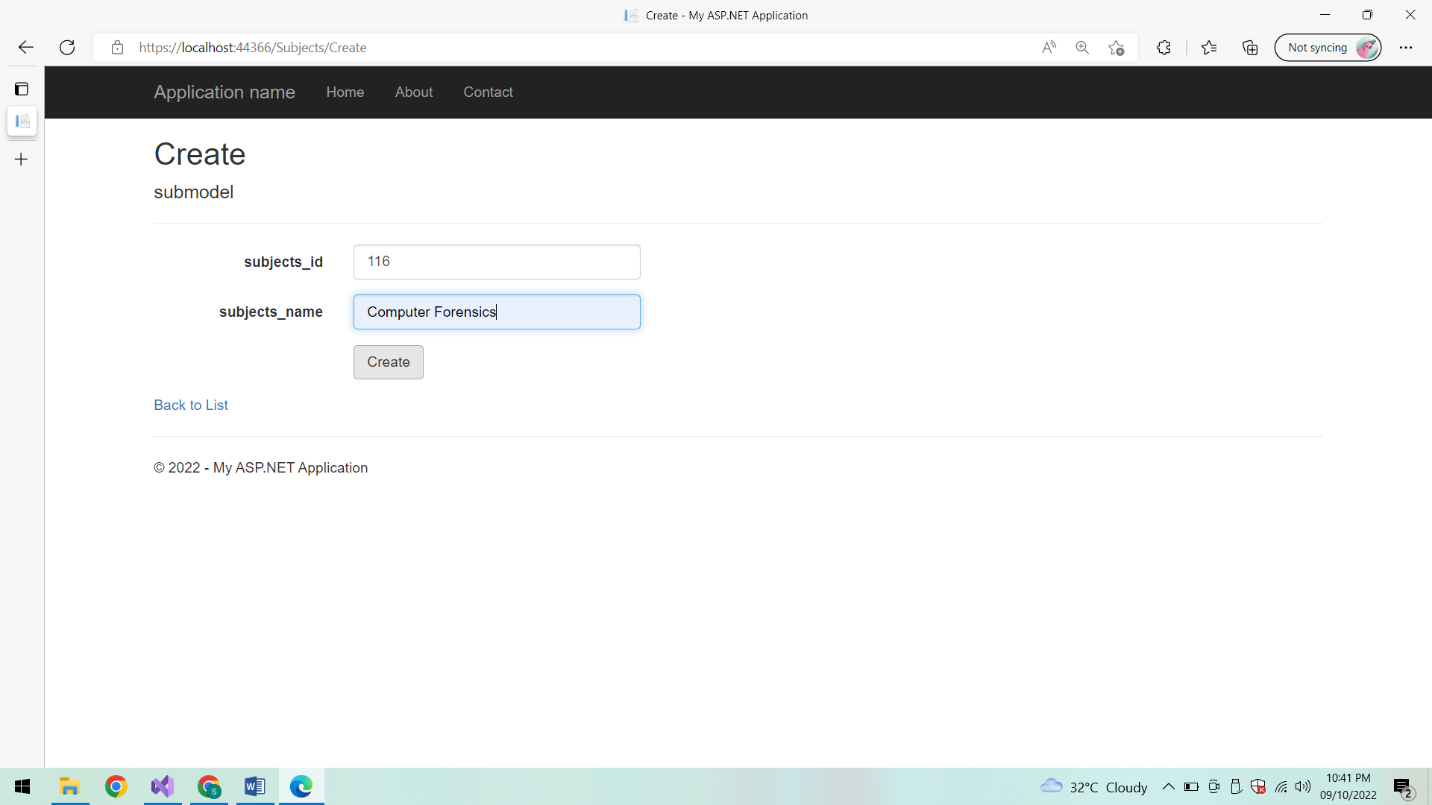
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**Subjects:**

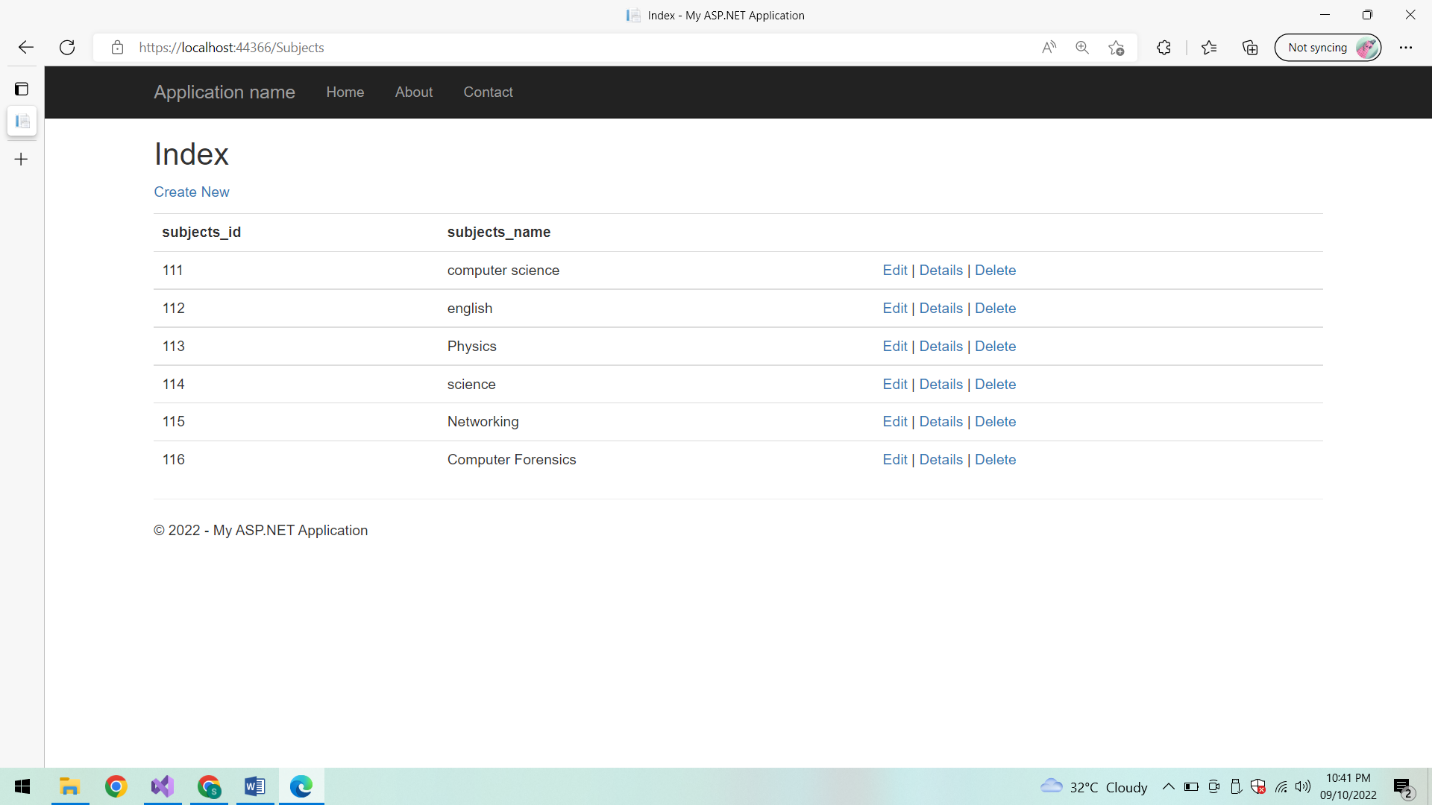
**List of subjects:**

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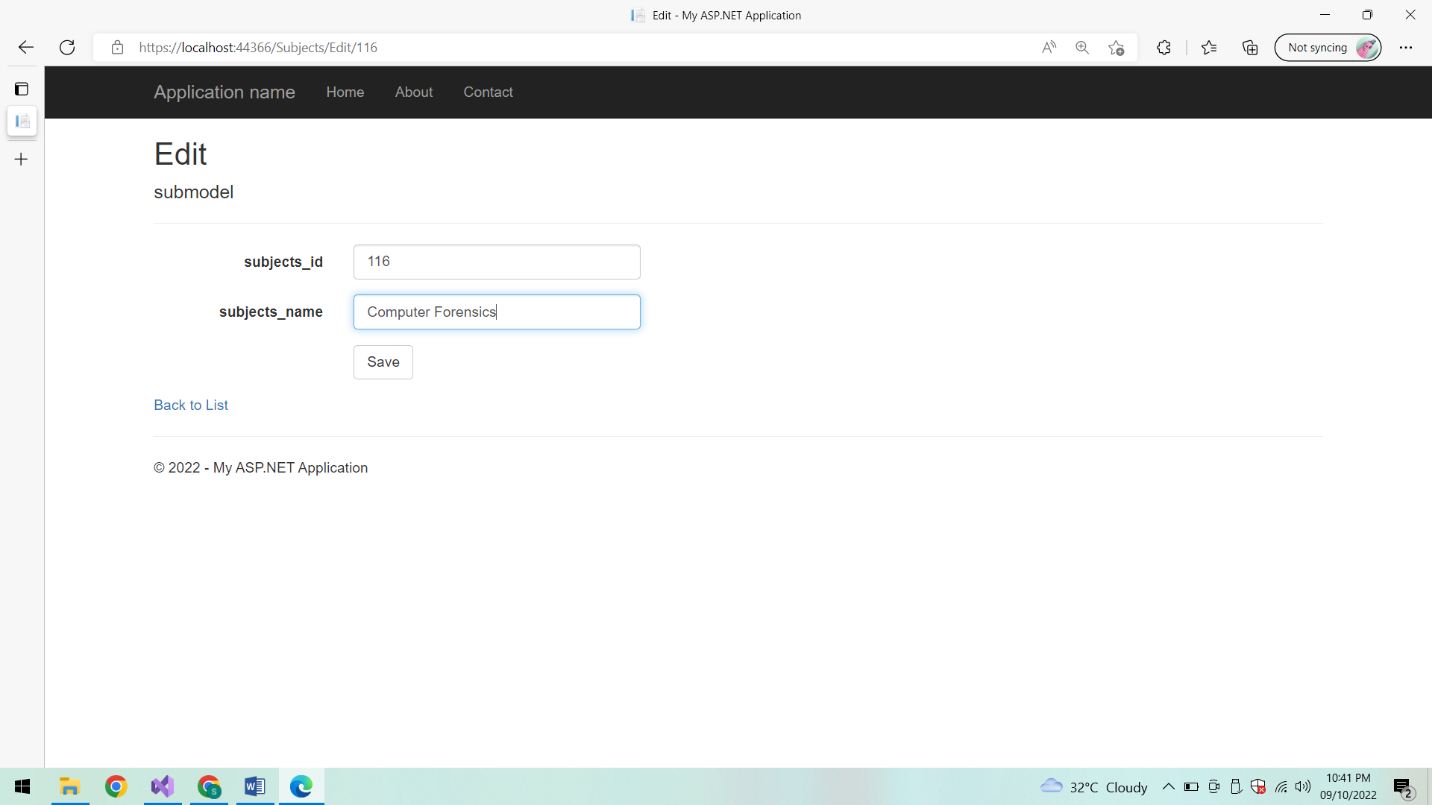
**Add subject:**

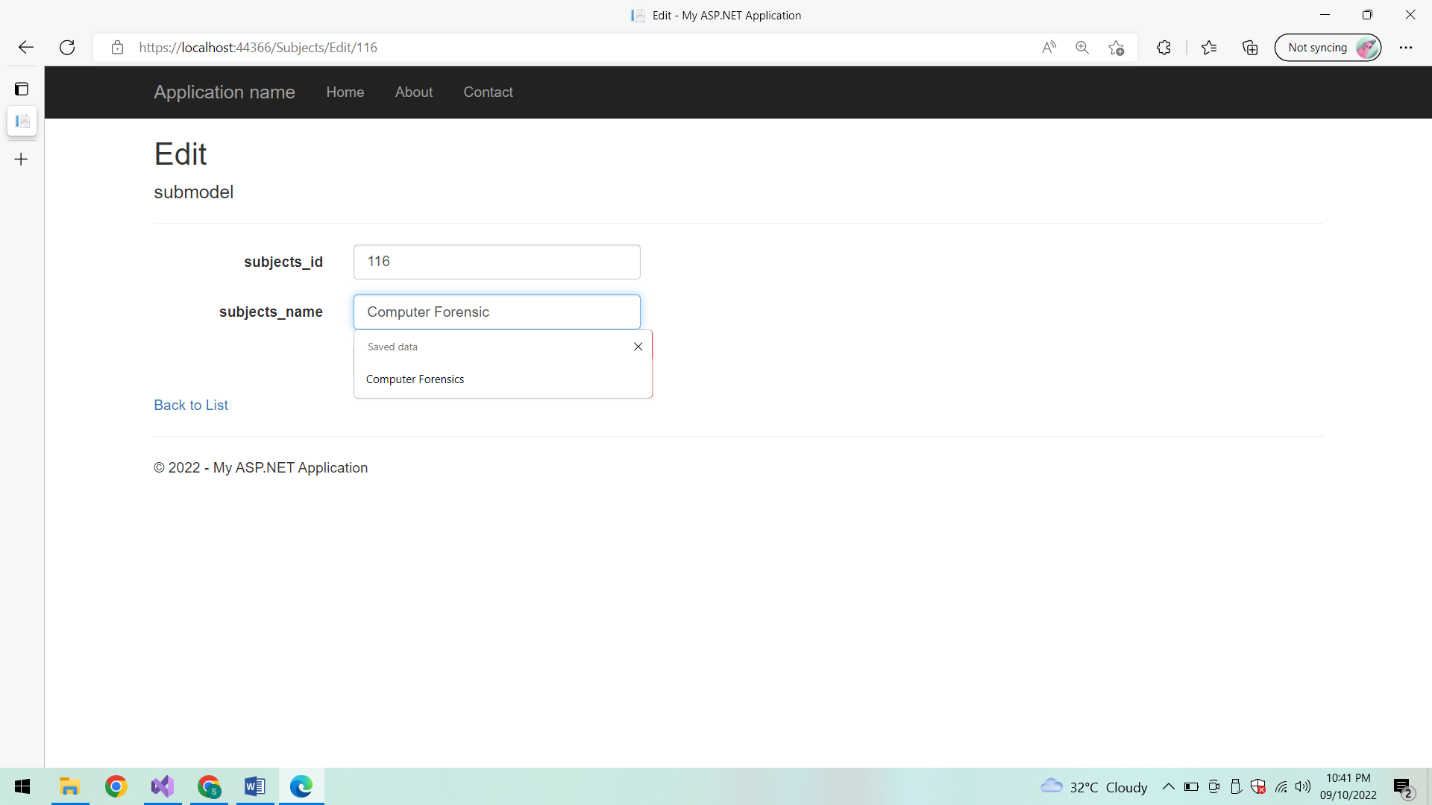
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**List of subjects:**

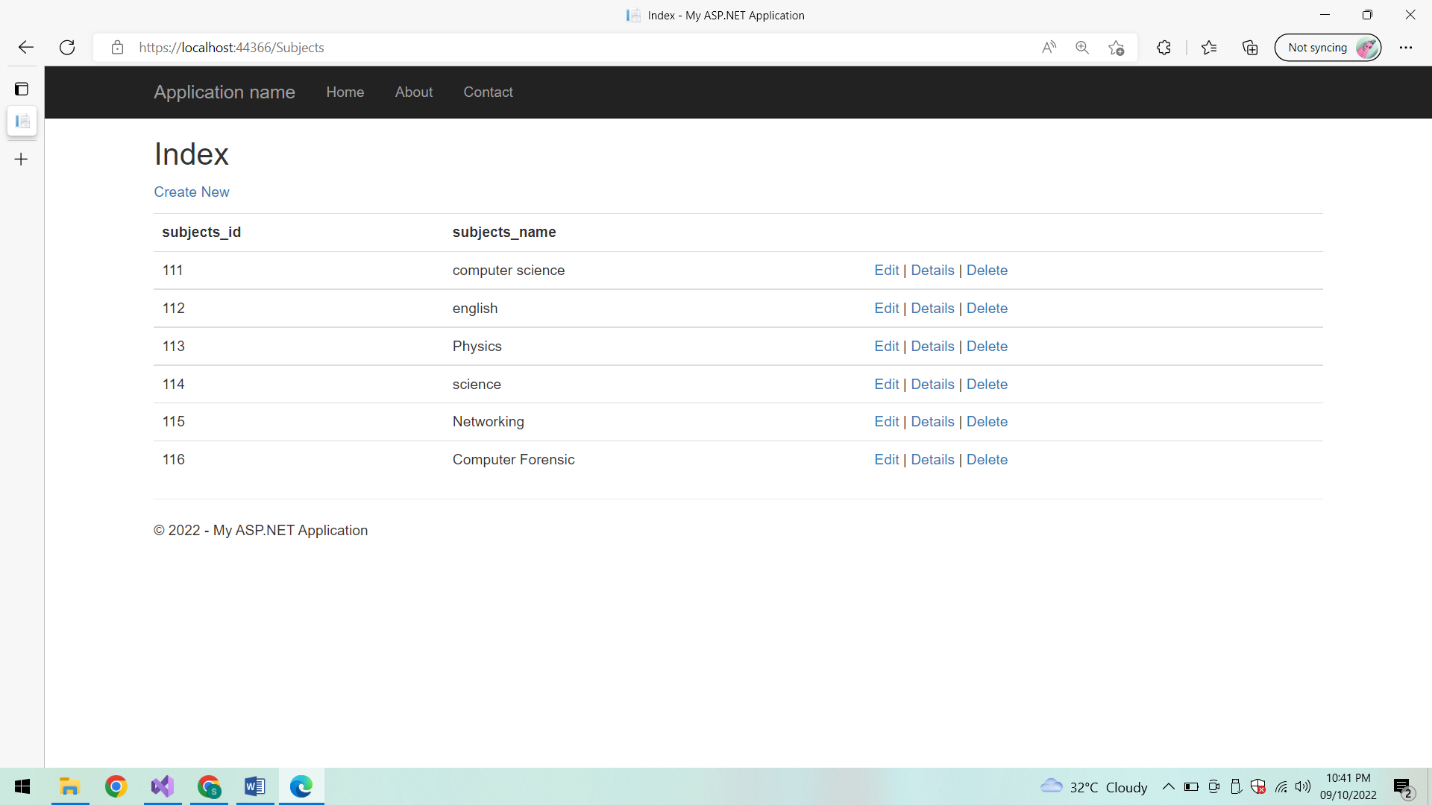
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**Edit:**

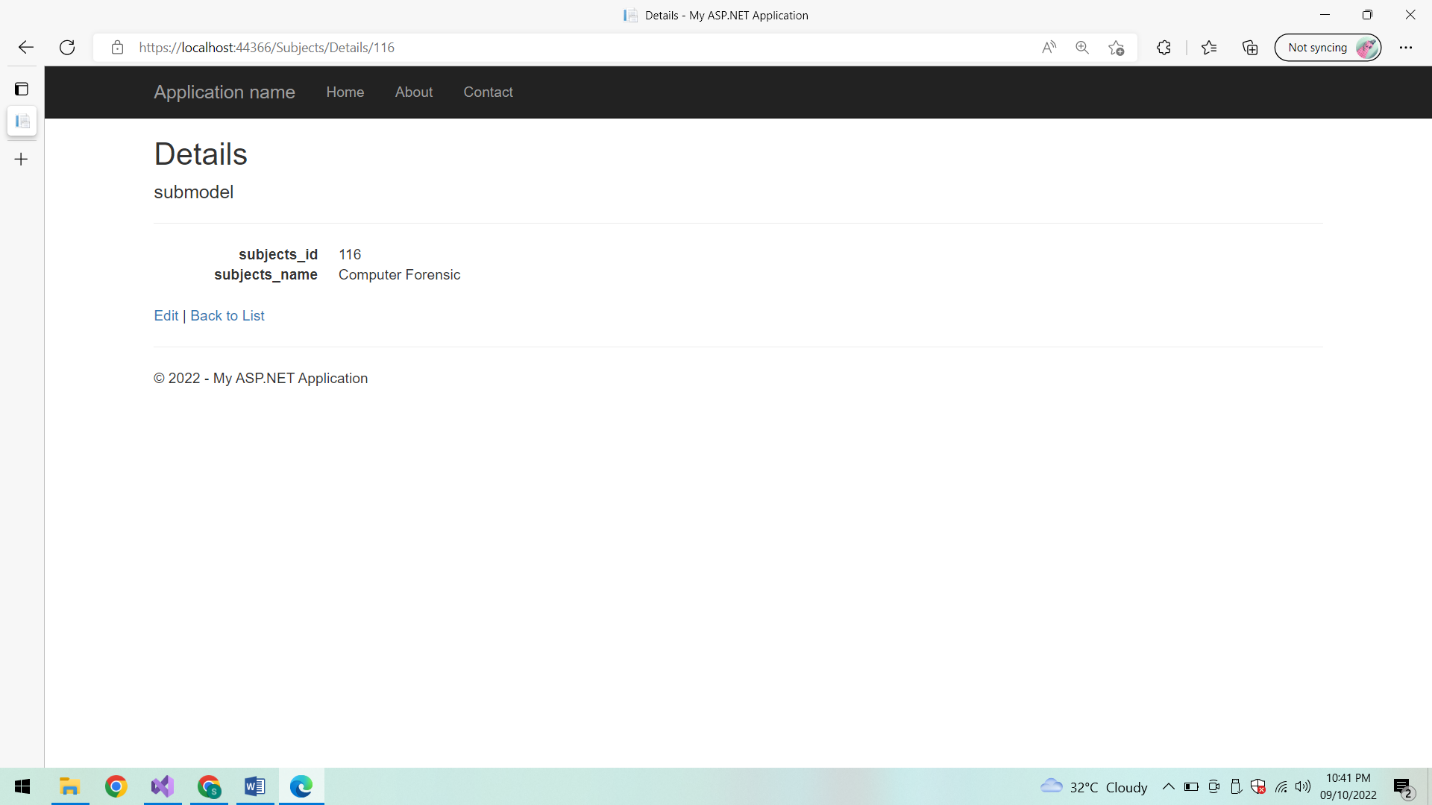
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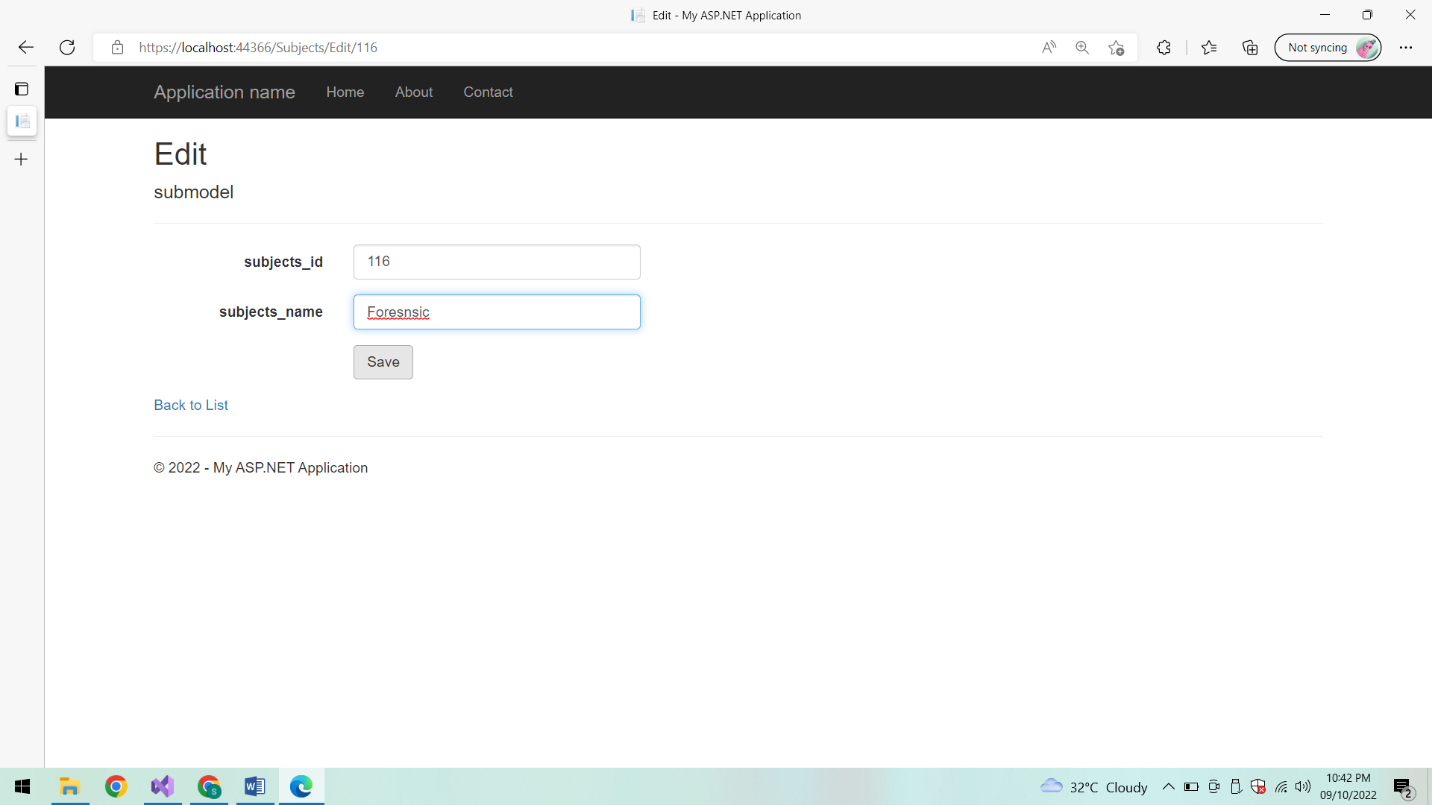
**After Editing List of subjects:**

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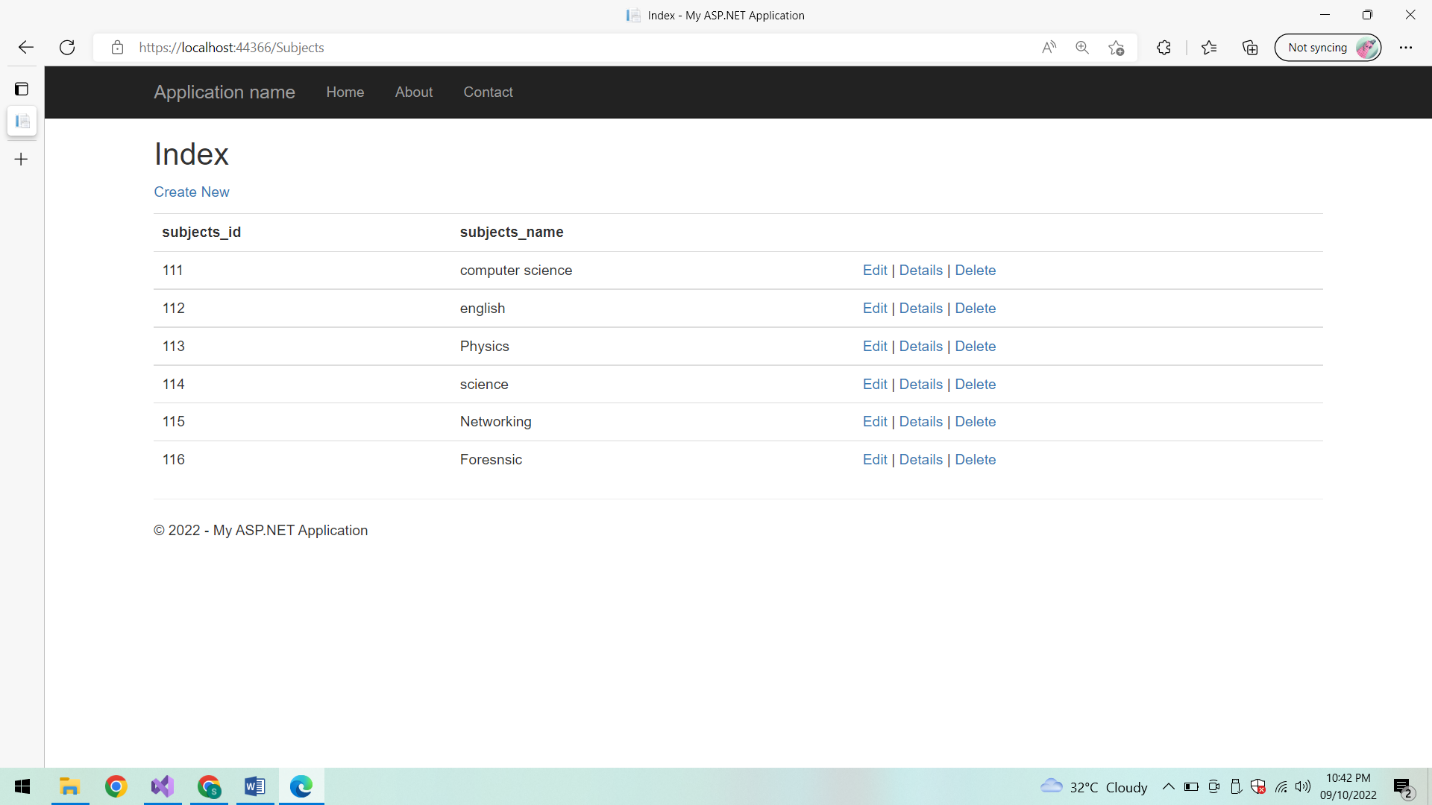
**Details:**

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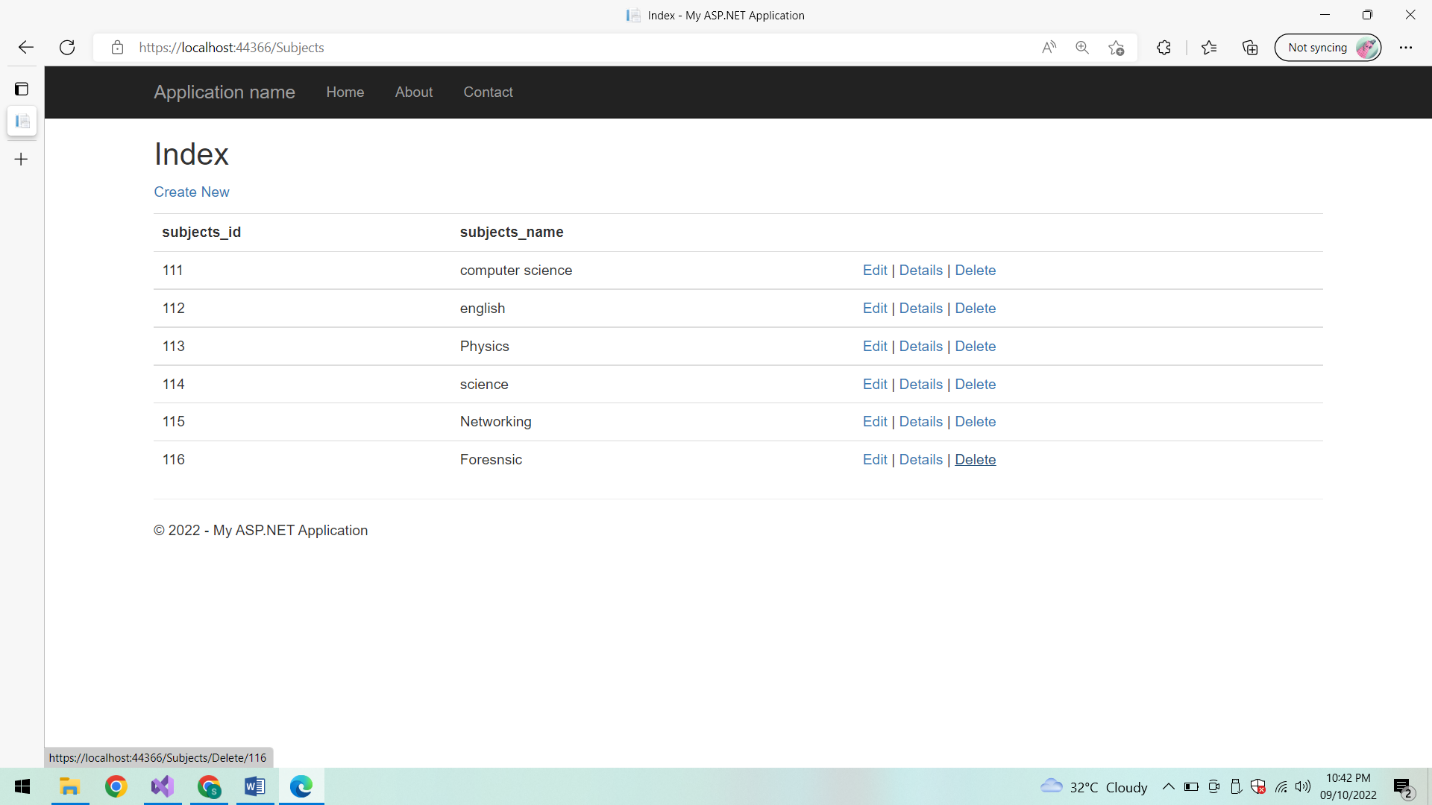
**Edit:**

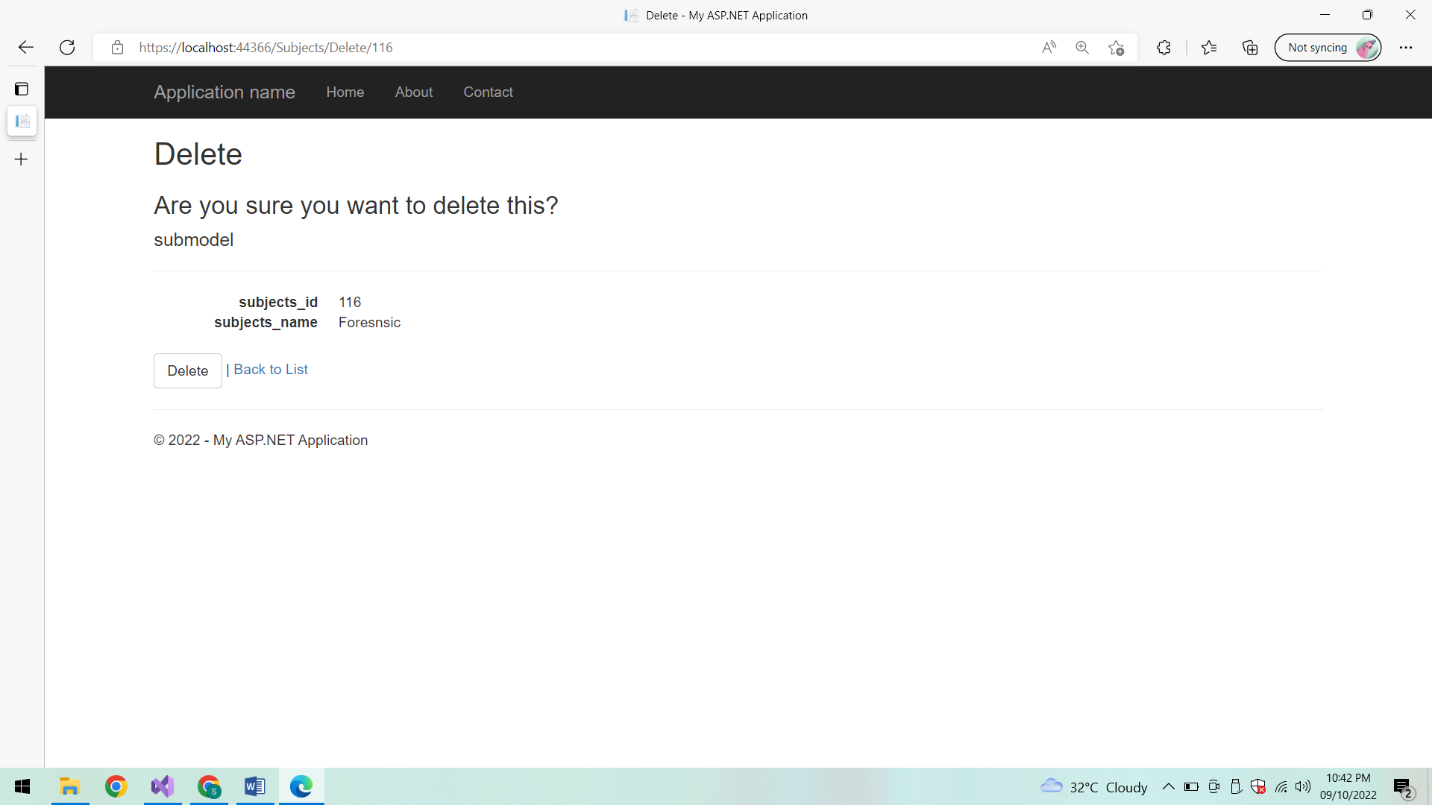
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**List of subjects:**

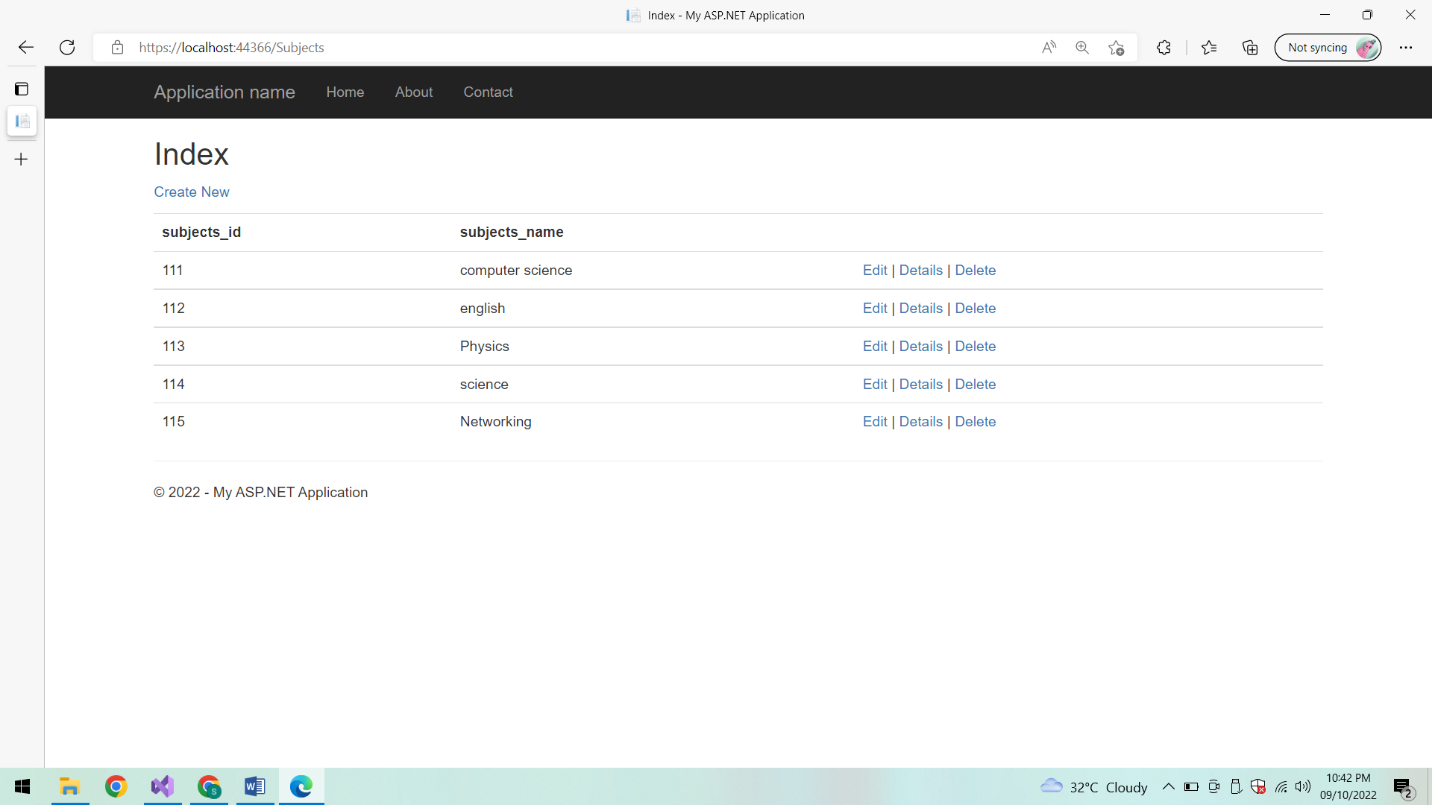
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**Delete:**

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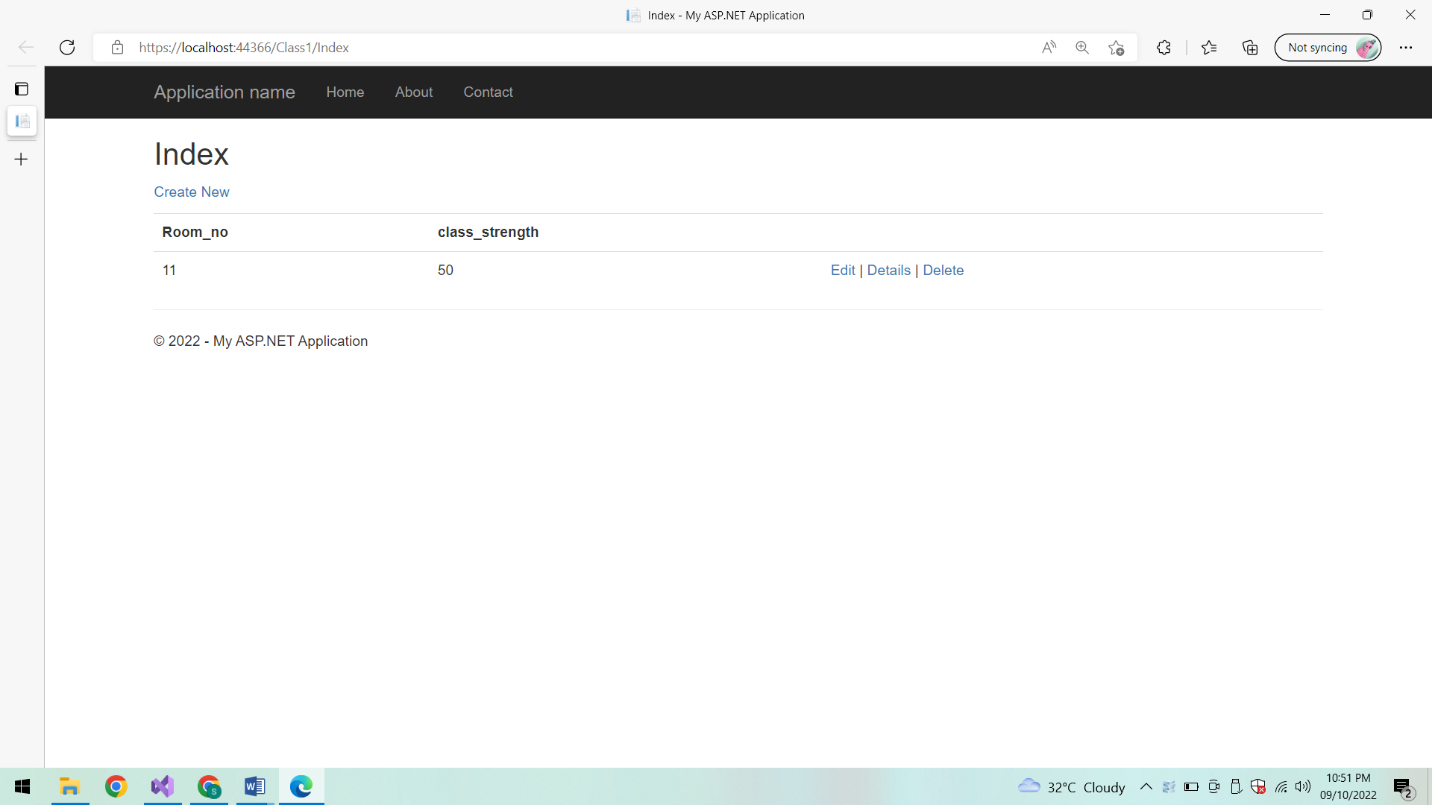
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**After deletion List of subjects:**

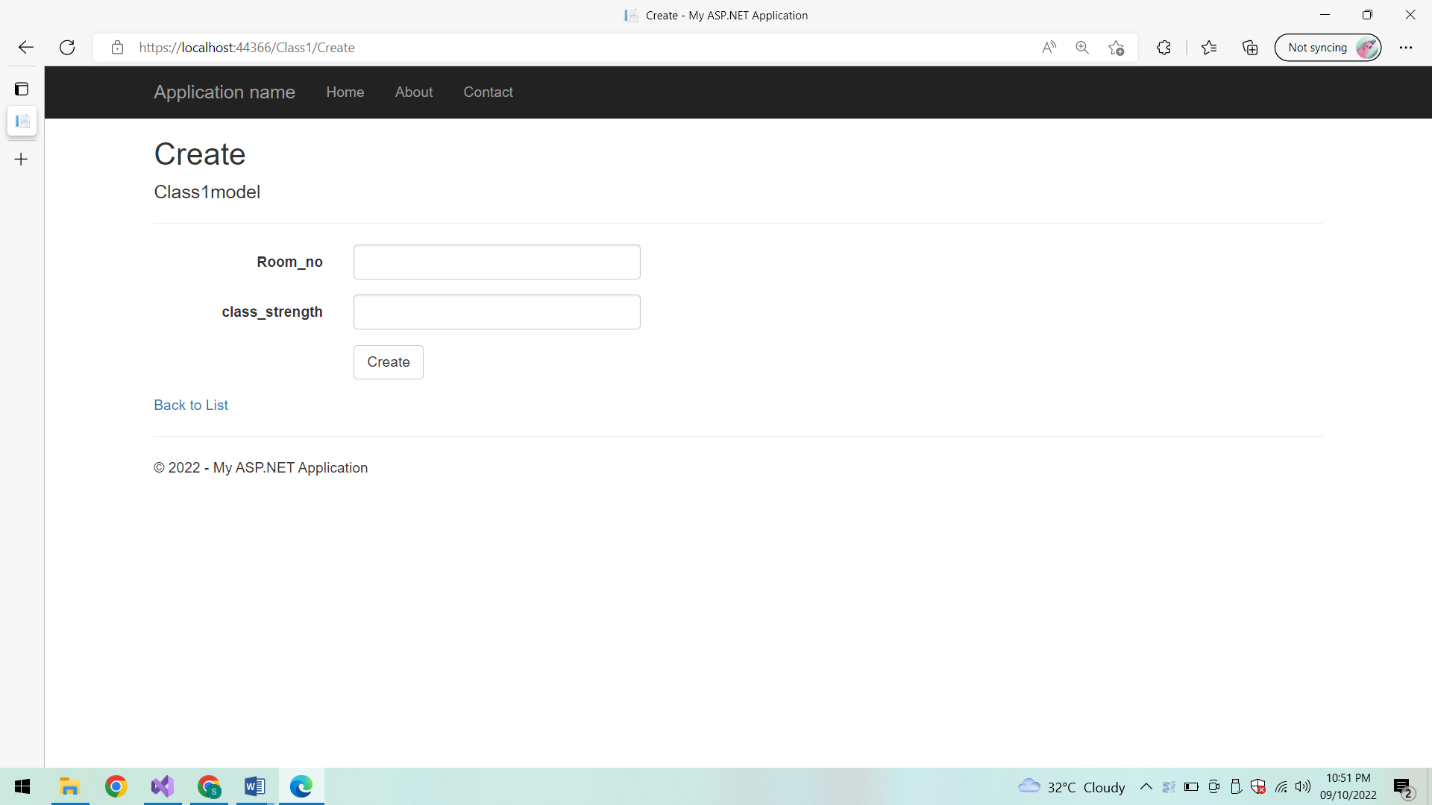
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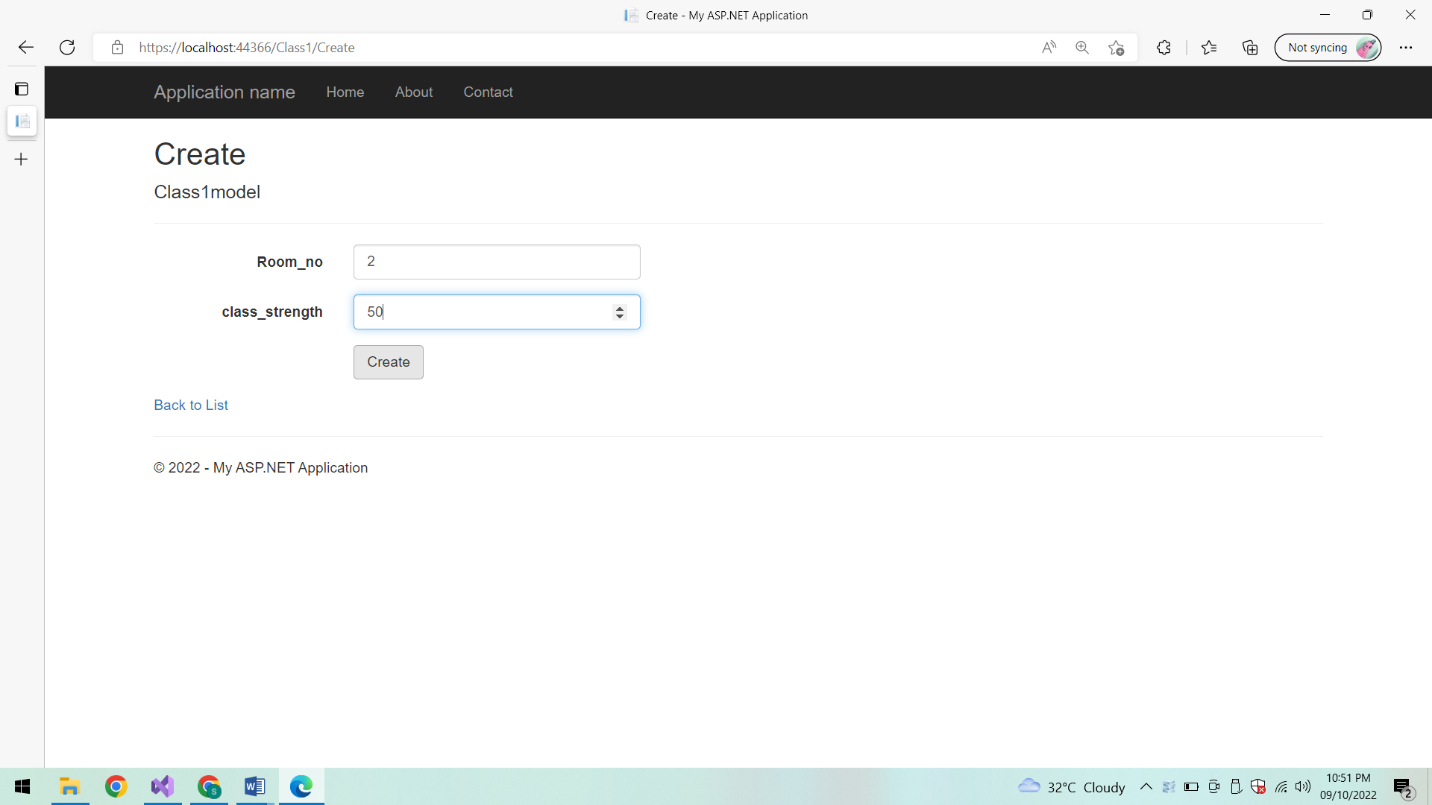
**Class:**

**List of classes:**

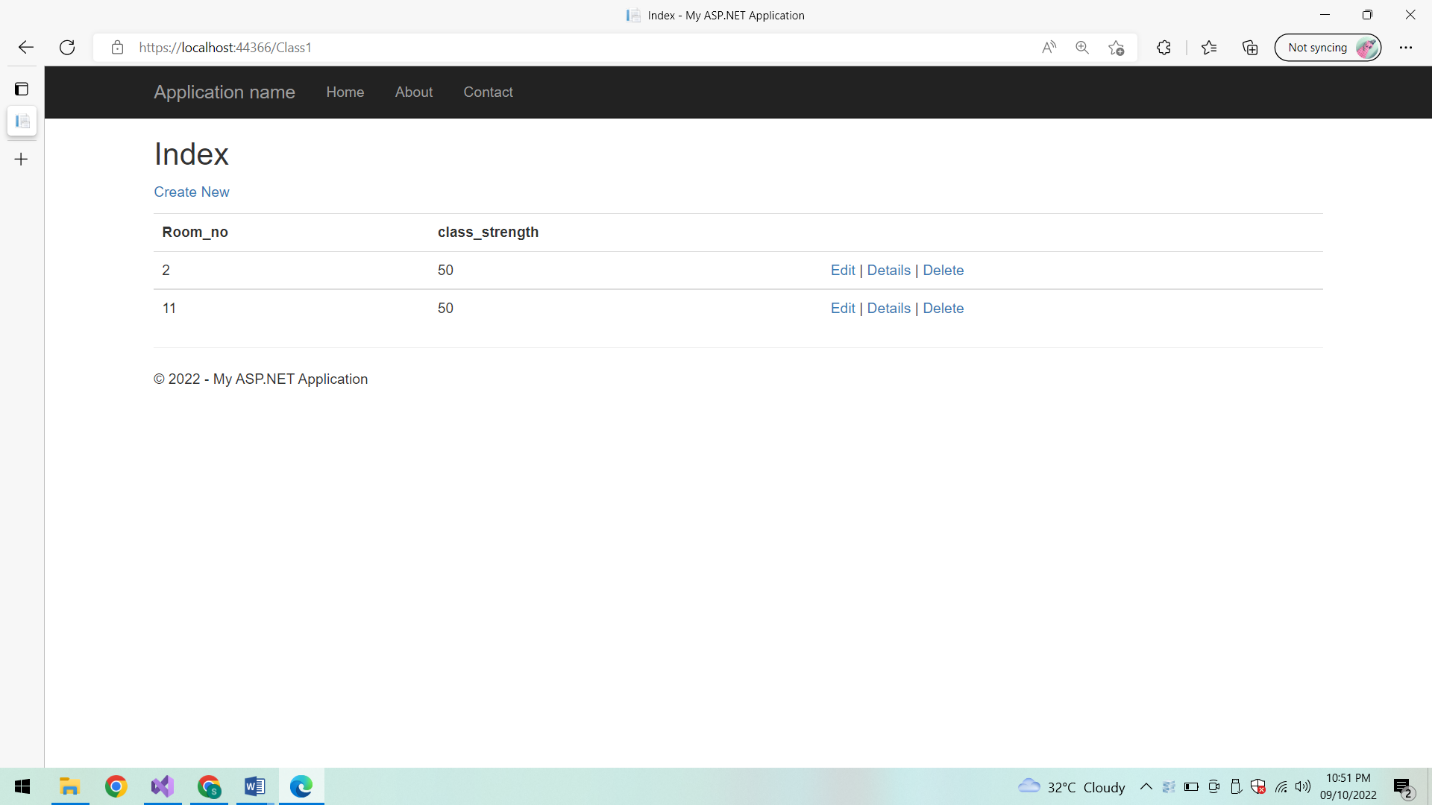
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**Add a class:**

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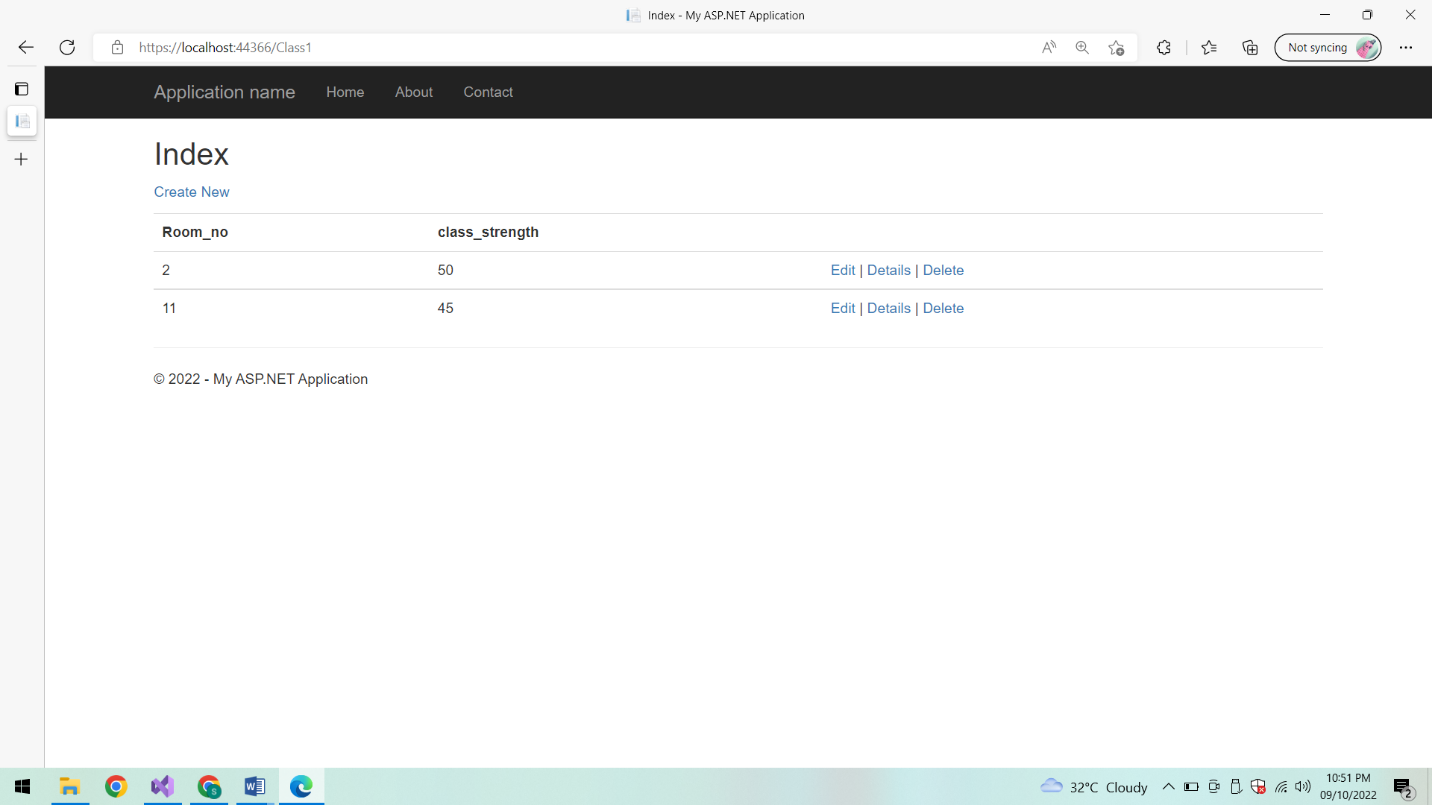
**List of Classes:**

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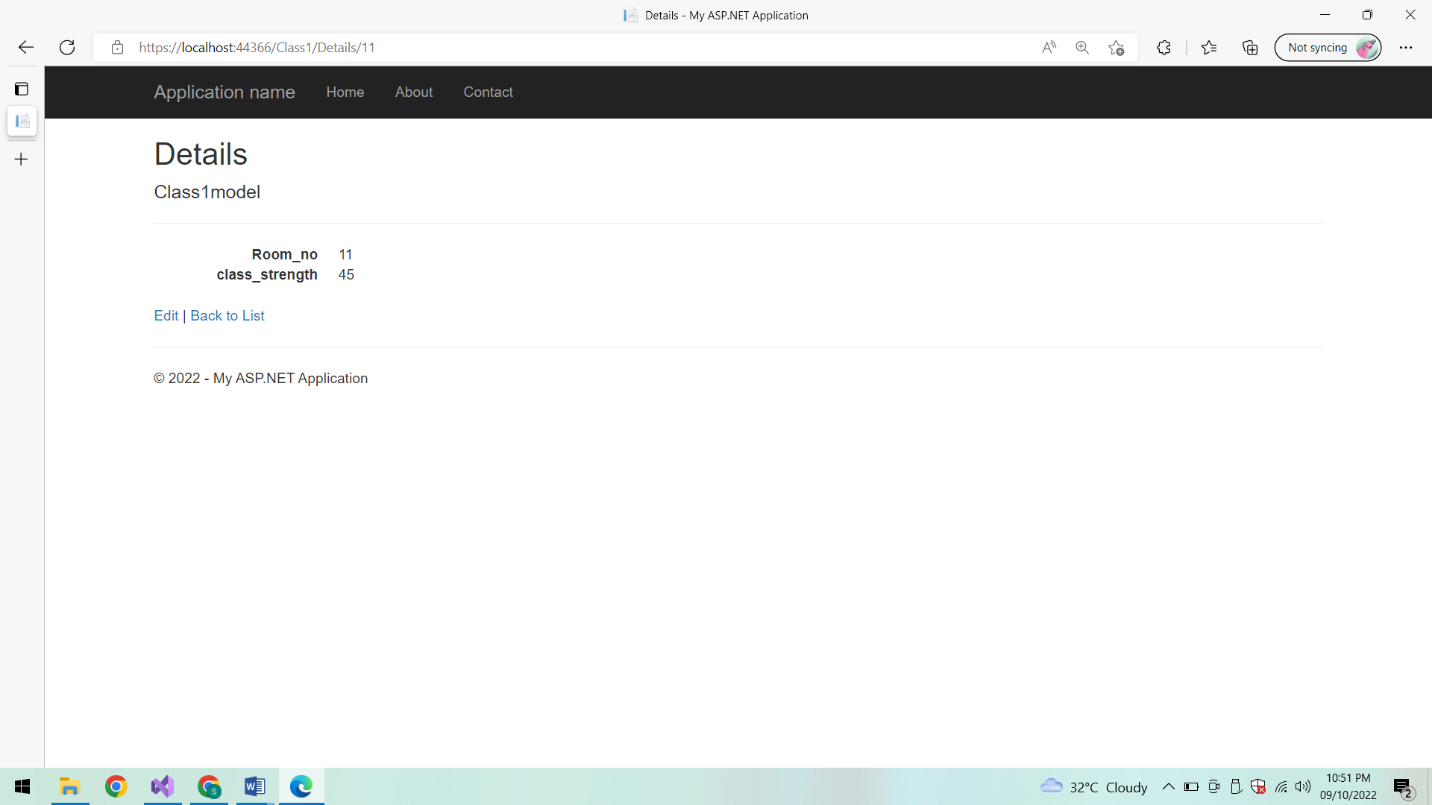
**Edit:**

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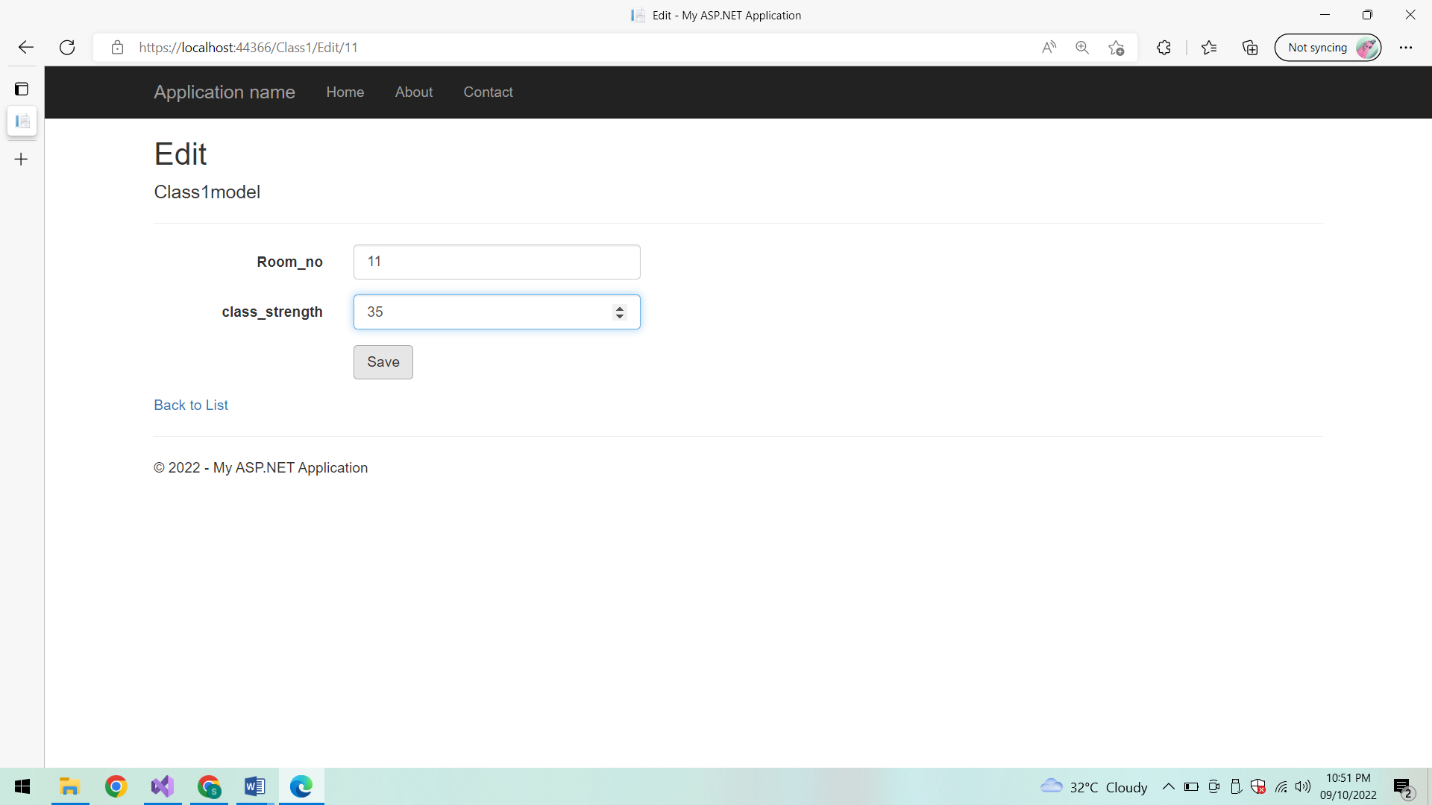
**List of classes:**

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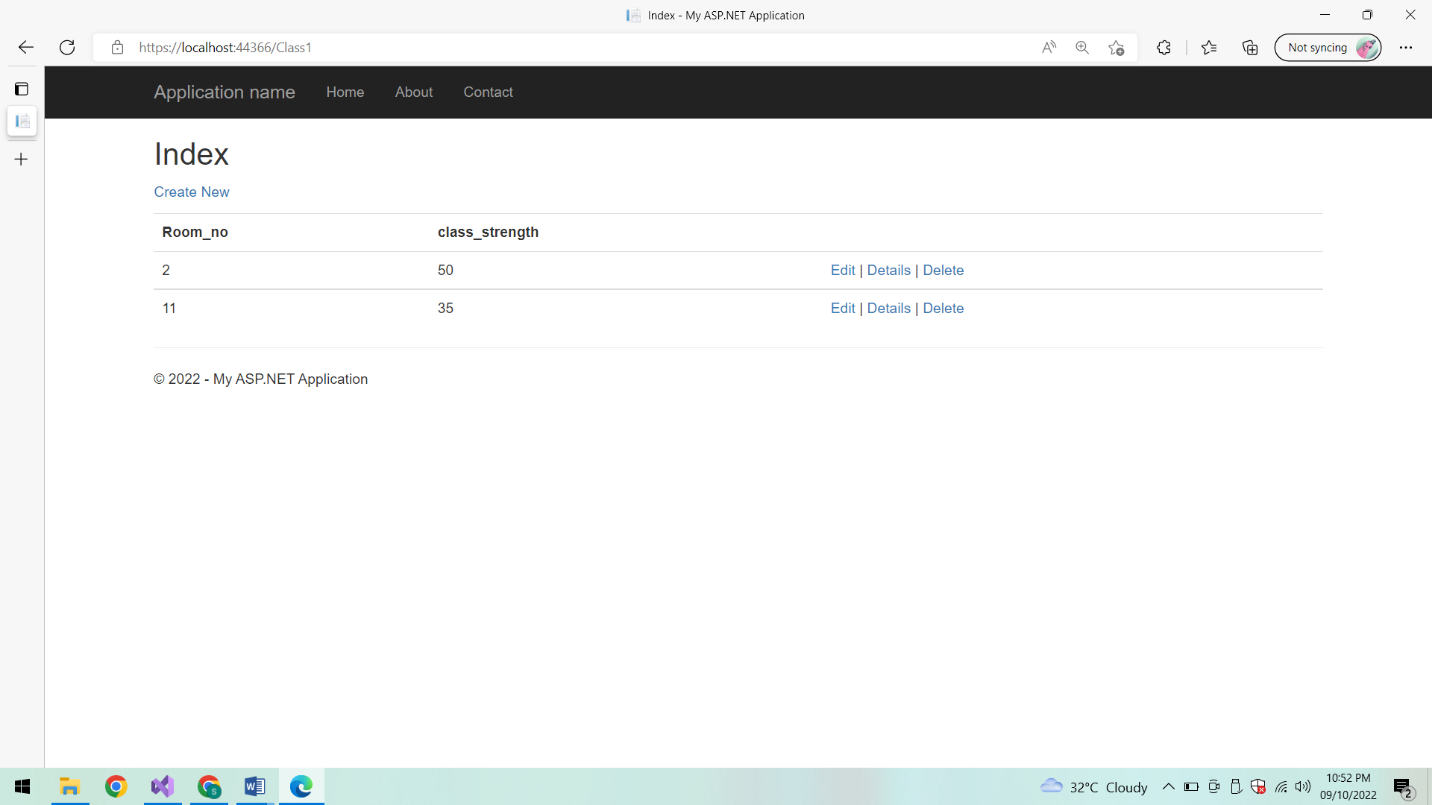
**Details:**

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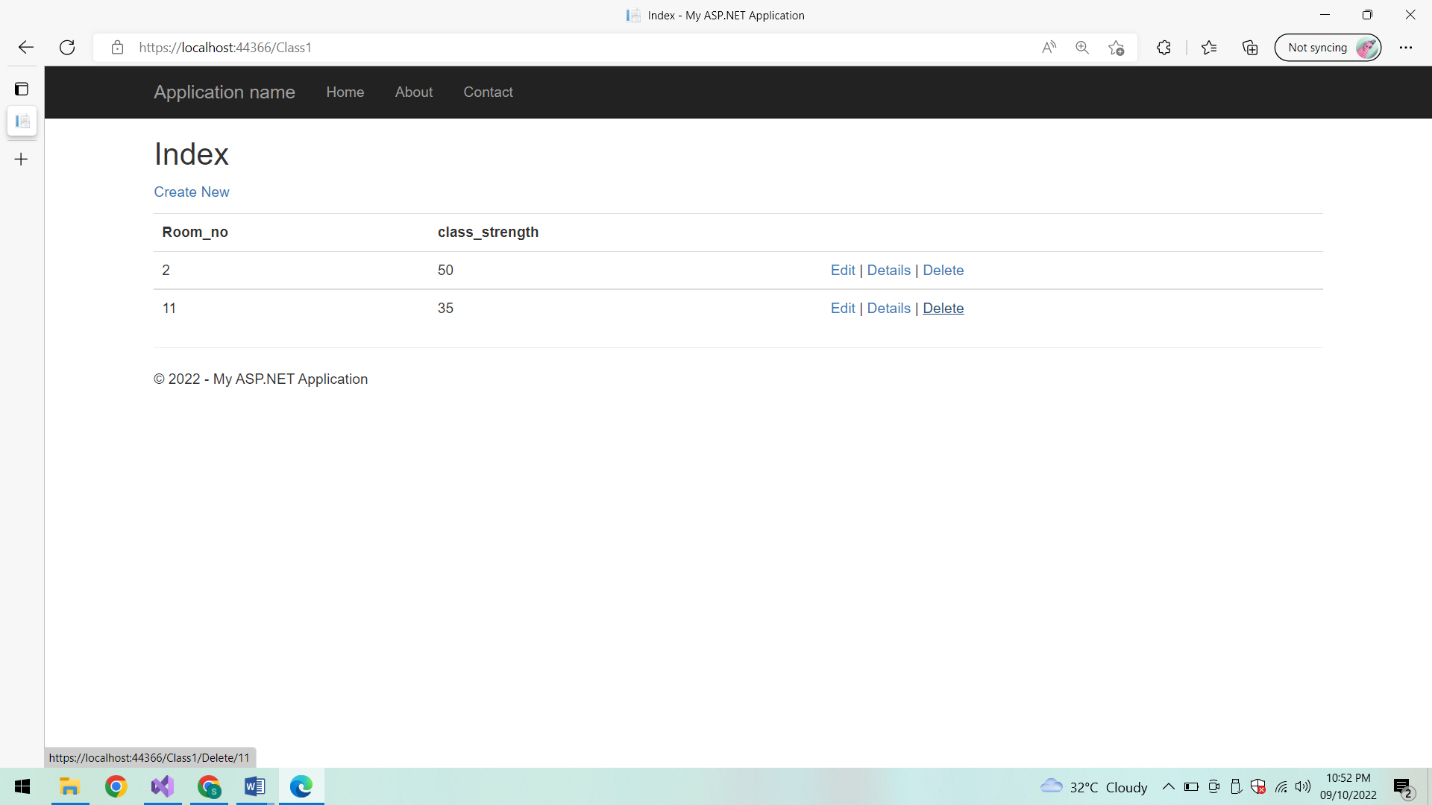
**Edit:**

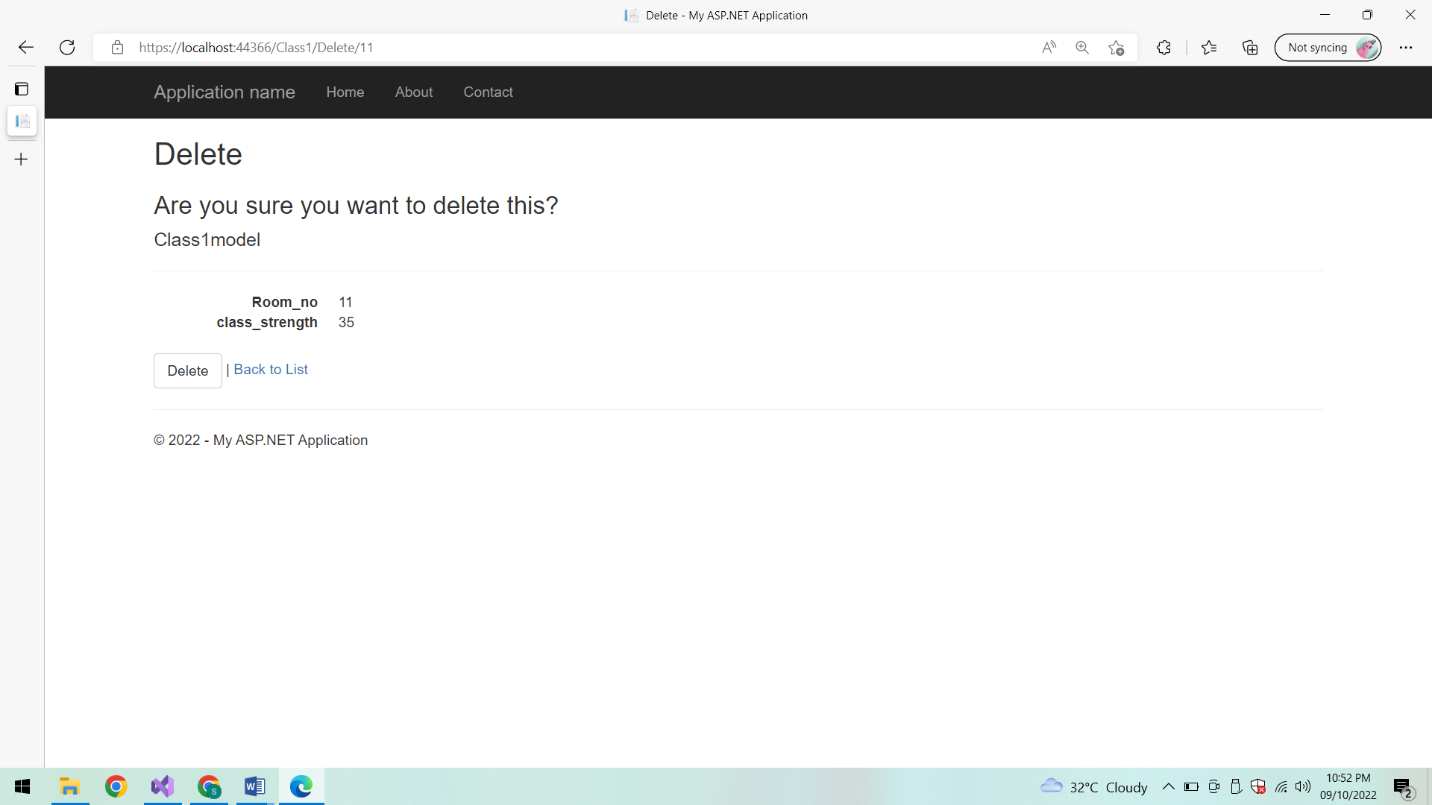
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**List of classes:**

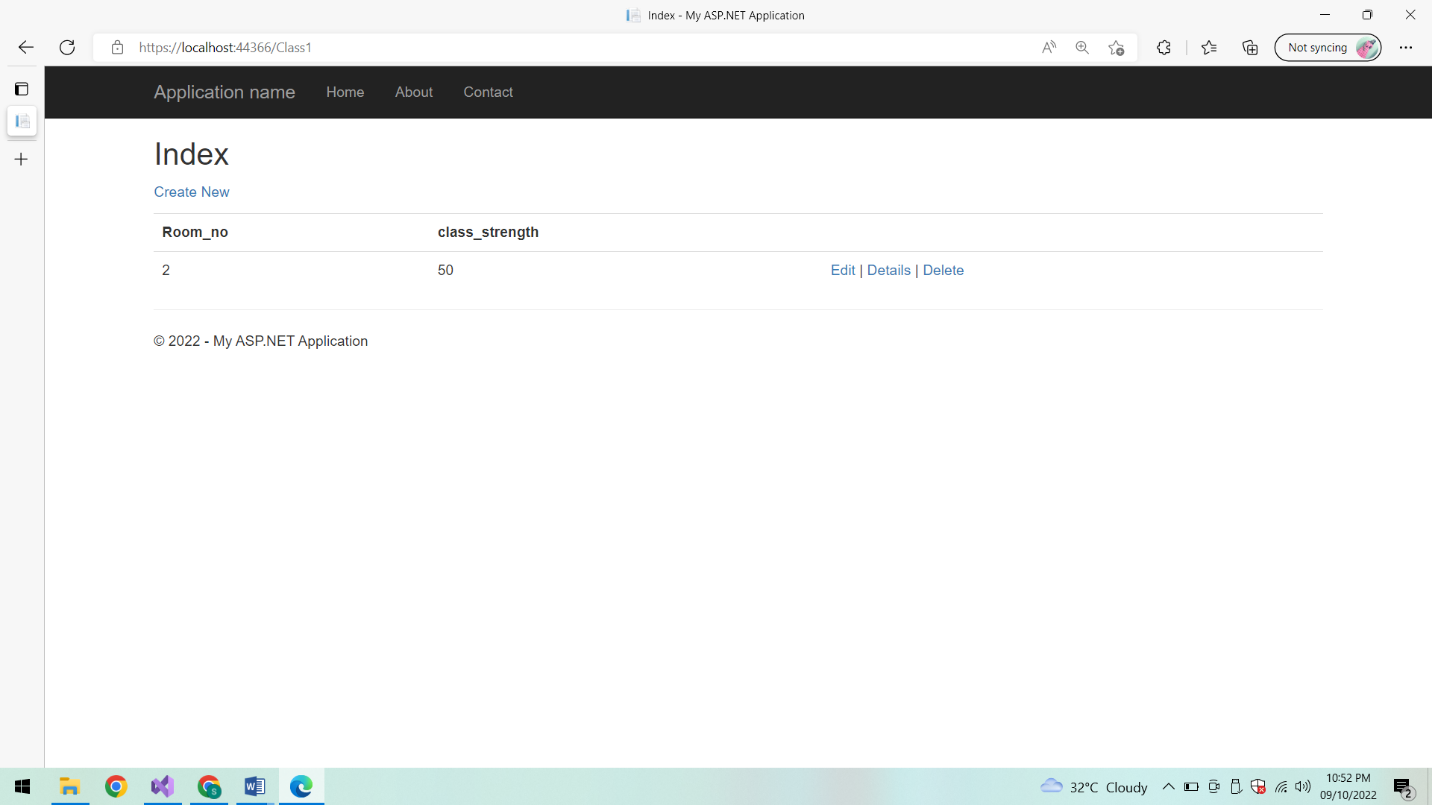
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**Delete:**

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**After deletion List of classes:**

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**Conclusion:**

Thus the MVC application is created successfully.