

COLLEGE OF SCIENCE & TECHNOLOGY

TRIBHUVAN UNIVERSITY AFFILIATE

Lab Report On: NCC

Lab Report No: <u>03</u>

Submitted By:

Submitted To:

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Group: BSc.CSIT

- 1.) WAP to show the use ADD. NET in your . NET Brogram with either ASP. NET web Forms Project or ASP. NET love MVC Project.
 - a) Create Database & Table in SBI Serves
 - -> The query to create database is:
 CREATE database lab3baddb
 - The query to create table is in CREATE TABLE abovemployee (

 Id int IDENTITY (1,1) NOT NULL,

 Employee Name nvaschas (100) NULL,

 Department nvanchas (50) NULL,

 Salary nvanchas (50) NULL,

 Joined On date NULL,
 - b.) Create a form to get uses data input and insest into table
 - -) In controller folder a new controller is created named as Employee controller. 15.

 -) A constructor is created with a field member

```
public class Employee Controller: Controller
     public I (on figuration (on figuration & get; 5
    public Employee Controlles (I Configuration
      configuration)
        (onfiguration = configuration;
 To insert into table, at first a action methods
 Create is created as i-
  public IAction Result (reade ()
     retun View ();
  public IActionResult (reate (Employee employee)
      if (ModelState. Is Valid)
        String connectionString = longiquation [" Connection Strings: Default Connection"];
        using ( Sq! lonnection connection = new Sq! Conn-
                 éction (connection String)
```

```
storing sql = 4" Insert Into Employee (
                Employee Name, Department, Salary, Joined On)
         Values ('& employee. Employee Name 5', demployee
          Department 9', 'Semployee. Salary 9', 'i employee.
           Joined On 5');
        using (sql(ommand command = new sqllommand
                    (sql, connection))
          command. Command Type = Command Type. Text;
          connection. Open ();
          command . Execute Non Query ();
          connection. (lose 6);
  return Redirection To Action ("Index");
   else
      return View ();
The View fresh, with is created with the code
amodel Employee
    View Data ["Title"] = "Create";
    vou title = "Add Employee";
    layout = " wivieus / shand 1 - layout . cshtml";
```

```
2style>
         input -validation -essor &
                    border-color: red;
 2/style>
  Lh2> @ HHe 
 Ldiv asp-validation-summary = "Model Dnly" class = "text-danges">
  2 form class = "m-1 p-1" method = "post" >
          L div class = "form - group" >
                   clabel asp-for = "Employee Name"> 21 label>
                   L'input aip-for = "EmployeeNane" clas = "form-control")>
                  15 pan asp-validation-for = "Employee Name" class = "text-
                                                                    danger "> 21span>
        11div>
       Ldiv class = "form-group">
          Mabel asp-for = "Department" > 21 label>
         Linput cup-for="Department" class="form-control"/>
Linput cup-for="Department" class="text-danges"

Linput cup-for="Department" class="text-danges"

Linput cup-for="Department" class="text-danges"
         Llabel asp-for = "Salony" > 2 label>
Linput asp-for = "Salony" type = "text" class = "form-control")

Linput asp-for = "Salony" type = "text" class = "text-darger">

Linput asp-validation-for = "Salony" class = "text-darger">

Linput asp-validation-for = "Salony" class = "text-darger">
      Ldiv clas = "form-group">
                   type = 'submit" clas = "bto bto -primary" > Submit
      LIdiv>
      2 button
      11 button >
L1form>
```

```
C.) Show Data from your table in your list page.
-) Action method to show data is :-
   public IAction Result Index ()
    List < Employee > employee list = new list < Employee > ();
   string connectionString = (onfiguration ["lonnectionStrings;
            Default Connection "J;
  using 1591 Connection connection = new Syllonnection (
                  connection String))
      connection . Open ();
     string sql = " Select * From Employee ";
     Sqllommand command = new Sqllommand (Sql, connection);
    using (Sq1DataReades dataReades = command. Exercto Reades ())
        while (data Reader. Read())
          Employee employee = new Employee ();
         employee. Id = Convert. To Int 32 (dataleoder ["Id"]);
        employee. Employee Name = Convert. Tostring (data Reader [
       employee. Department = (onvert, so Decimal (dataleader [
Salons
      emplojee. Department = Convert. To Sning (data Reader C
     employee. Joined On = Convest. To Date Time (dataReades [
    employee list. Add (Employee);
   Connection. Close (); & retrum View (employee list); 4
```

```
-> View for Index ie Index. cshtml is !-
    amodel I Enumerable L Employe>
        ViewData ["Title"] = "Employee";
       vas litte = "Employee list";
       layout = " n/Vieus Ishand 1-lajout. (shtml";
      Qtitle (Asp. net core 3.1 and operation with
   6 h2>
            Ado.net

  \( \text{h3} > \tag{asp-action} = "Create" \( \text{class} = "btn \) \( \text{btn-sm} \)

                        bto-secondary "> Create 21a> 2/h3>
 2 table class = "table table-bordered table-sm table-
                  striped ">
     11cao /
LtrzId Llth> Lth> Name LIEh> cth> Department Llh>
           cth>Salory> LIth> Ith>Joind On LIth'> Lth>Update
   Anead >
           LIM> Lth> Delek LITh> 4to>
  21thead>
  Ltbody>
      Qif (Model = = null)
        Ltr> Ctd colspan = "7" class = "text-center">
              No model Data 61td > 1/tr>
     gelse
        @ for each ( var p in Model)
```

```
ctd > ap. Id 21td>
           Ltd > ap. Employee Name 21td>
           Ltd > Qp. Department 21td>
           2td> Rs. ap. Salony 21tbd>
           Ltd > @ string. format [ " { 0:dddd, dd mmmm yyyy5",
                         P. Joined On ) 2/td>
           Ltd > La oup-action = "Update" oup-noute-id="
                   op. Id"> Update 2 ha> (1td>
              Lform asp-action = "Delete" method = "post"
           Ztd>
                asp-route-id="ap.Id">
                    2 button > Delek 21 button >
             21 gorm >
          2/1/
     LItr>
 41thody7
21 table >
```

```
d.) Update Data through your edit page.
 -) Action method for Update is :-
    public IActionResult Update (int id)
     string connectionString = longiquation [" Connection Strings:
         Default Connection "];
       Employée employée = new Employée ();
      using [Sql Connection connection = new Sql Connection (
             connection String))
       { string sql = 4 "Select * From Employee where Id =
                 1 81851 "3
         Sql Command command = new Sql Command (sql)
                    connection);
         connection. Open ();
         using (Sq 1Data Reades data Reades = command. Exerut
                     Reader ())
          while (dataReader. Read ())
             employee. Id = Convert · To Int 32 (data Read ("Id"));
   employee. Employee Name = convert - Tostning (data Reader ["Employee
   employee. Department = Convert. Tosting ( dataReader [" Department");
   emplojee. Salary = (onvert. To Decimal (data Reader ['Salary'));
  employee. Joined Dn = Convert, To Data Time (data leader ["Joined On"]);
      connection. Close (); & return View (employee); 5
```

```
[HHPPart]
  [ Action Name (" Up dale")]
  public J Action Result Update-Post (Employee employee)
   string connectionString = (on figuration ("ConnectionStrings
                : Default Connection "J;
        (Sql Connection connection = new Sql Connection
             (connection String))
     string sql = 1"Update Employee SET Employee Name
        = '& employee. Employee Name 5', Department = '&
          employee Department, Salony = 1 & employec.
             Salarys', Where Id = 'f employee Ids'";
    using (Sqllommand command = new Sqllommand
               (sql, connection))
       connection. Open ();
       Command . Exerute Non Query ();
       connection. Clase ();
return Redirect To Action (" Index ");
```

```
-> View page for updak is. Updak. cshtml is:-
     amodel Employee
     af View Data ["Title"] = "Update";
         van title = "Updak Employee";
         layout = " n / Views/Shared /- layout. (shtml")
   Ldiv asp-validation-summany = "ModelOnly" clas = "text-danger">
4/6m class = "m-1 p-1" method = "post">
  Udiv>
   cdiv class = "form-group">
      Mabel asp-for = "Id" > Mabel >
     Lingout asp-for = "Id" type = "text" readonly clas = "form-
 Idiv class = "form-group">
21abel osp-for = "Employee Name"> (11abel>
  Linput asp-for = "Employee Name" type = "text" class = "form-
  Lspan asp-validation-for = "Employee Name" class = "text-dames"
Ldiv & clas = "form-group">
    Mabel asp-for = "Employeementhon Department" > 21 habels
  Zinput asp-for = "Department" ype = "text" clas = "form-
control" 1>
  Lspan asp - validation - for = "Department" clas = "text-darger"
2/div>
```

```
Ldiv class = "form-group">
      clabel asp-for = "Salary"> 21/abel>
      Linput asp-for = "Salary" type = "text" class =
             " fom -control" />
      espan asp-validation-for= "Salony" clas = "text-danger">
                                         215pan>
   21div7
   Ldiv class = "form-group">
       Clabel cup-for = "Joined on" > (1/label >
      Linput asp-for="Joined On" type= "text" class=
          " form-control" asp-format = " & 0:d5" />
  Chutton type = "submit" class = "btn btn-primary">
      Submit 21button >
21form>
e.) Deleke a now of data from your given input
-) In a list of rodates of employee, there is a button
    which on click deletes a now of data.
-) Action method of it is given below:
    CHHpPost J
     public IAction Result Delete (int id)
```

```
string connection String = configuration [" connection Strings : Default Connection "];
  using (Sqllonnection connection = new Sqllonnection
               (connectionstring))
    string sqd = $" Delete From Employee Where Id =
               1 f Jd' ";
   Wing (SqlCommand command = new Sqllommand
                (sql, connection))
       connection. Open ();
        command. Exeruk Non Quey ();
      catch (Sq 1 Exception ex)
        ViewBag. Result = "Operation got emor:" tex. Message,
      connection. Llose ();
return Redirect To Action ("Index");
```

```
The model class Employee is
      public clas Employee
       public int Id & get; set; 3
       (Required)
       [Display (Name = " Employee Name ")]
       public string Employee Name & get; set; 5
       [Reguired]
      public string Department ( get; set; s
       [Required]
       public decimal salang & get; set; S
      public Date Time Joined On of get; set; 5
   appsettings, jeon, connection string is added as
In
     " allowed Hask": "*")
      1' Connection Strings " : 5
         "Default Connection ": " Data Source = . ; Initial
                   Catalog = lab3db; Integrated Security = Tre"
```