Contoller MVC

```
using _107_Sanket_KH_210940320107.Models;
using System;
using System.Collections.Generic;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.Mvc;

namespace _107_Sanket_KH_210940320107.Controllers
{
    public class ProductController : Controller
    {
        List<Product> ProList = new List<Product>();
        // GET: Product
        public ActionResult Index()
        {
            SqlConnection cn = new SqlConnection();
            cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
            cn.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.Connection = cn;
            cmd.CommandType = System.Data.CommandType.Text;
            cmd.CommandText = "select * from Product_Tbl";

            try
            {
                SqlDataReader dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    ProList.Add(new Product
                    {
                        ProductId = dr.GetInt32(0),
                        ProductName = dr.GetString(1),
                        Rate = dr.GetDecimal(2),
                        Description = dr.GetString(3),
                        CategoryName = dr.GetString(4)
                    });
                }
                dr.Close();
            }
            catch (Exception e) { }
            cn.Close();

            return View(ProList);
        }

        // GET: Product/Details/5
        public ActionResult Details(int id)
        {
            return View();
        }

        // GET: Product/Create
        public ActionResult Create()
```

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        {
            return View();
        }

        // POST: Product/Create
        [HttpPost]
        public ActionResult Create(Product p1)
        {
            try
            {
                // TODO: Add insert logic here
                SqlConnection cn = new SqlConnection();
                cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
                cn.Open();
                SqlCommand cmd = new SqlCommand();
                cmd.Connection = cn;
                cmd.CommandType = System.Data.CommandType.Text;
                cmd.CommandText = "insert into
Product_Tbl(ProductId,ProductName,Rate,Description,CategoryName)values(@ProductId,
@ProductName, @Rate, @Description, @CategoryName)";
                cmd.Parameters.AddWithValue("@ProductId", p1.ProductId);
                cmd.Parameters.AddWithValue("@ProductName", p1.ProductName);
                cmd.Parameters.AddWithValue("@Rate", p1.Rate);
                cmd.Parameters.AddWithValue("@Description", p1.Description);
                cmd.Parameters.AddWithValue("@CategoryName", p1.CategoryName);

                cmd.ExecuteNonQuery();
                return RedirectToAction("Index");
            }
            catch
            {
                return View();
            }
        }

        // GET: Product/Edit/5
        public ActionResult Edit(int id)
        {
            SqlConnection cn = new SqlConnection();
            cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
            cn.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.Connection = cn;
            cmd.CommandType = System.Data.CommandType.Text;
            cmd.CommandText = "select * from Product_Tbl where ProductId = @ProductId";
            cmd.Parameters.AddWithValue("@ProductId",id);
            SqlDataReader dr = cmd.ExecuteReader();
            Product obj = null;
            if (dr.Read()) {
                obj = new Product
                {
                    ProductId = dr.GetInt32(0),
                    ProductName = dr.GetString(1),
                    Rate = dr.GetDecimal(2),
                    Description = dr.GetString(3),
                    CategoryName = dr.GetString(4)
```

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                };
            }
            else {
                ViewBag.Error = "Record Not Found";
            }
            cn.Close();
            return View(obj);
        }

        // POST: Product/Edit/5
        [HttpPost]
        public ActionResult Edit(int id, Product p2)
        {
            try
            {

                // TODO: Add update logic here
                SqlConnection cn = new SqlConnection();
                cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
                cn.Open();
                SqlCommand cmd = new SqlCommand();
                cmd.Connection = cn;
                cmd.CommandType = System.Data.CommandType.StoredProcedure;
                cmd.CommandText = "update Product_Tbl set ProductName = @ProductName,Rate
= @Rate,Description = @Description,CategoryName = @CategoryName where ProductId =
@ProductId";
                cmd.Parameters.AddWithValue("@ProductId", id);
                cmd.Parameters.AddWithValue("@ProductName", p2.ProductName);
                cmd.Parameters.AddWithValue("@Rate", p2.Rate);
                cmd.Parameters.AddWithValue("@Description", p2.Description);
                cmd.Parameters.AddWithValue("@CategoryName", p2.CategoryName);
                cmd.ExecuteNonQuery();
                return RedirectToAction("Index");
            }
            catch
            {
                return View();
            }
        }

        // GET: Product/Delete/5
        public ActionResult Delete(int id)
        {
            return View();
        }

        // POST: Product/Delete/5
        [HttpPost]
        public ActionResult Delete(int id, FormCollection collection)
        {
            try
            {
                // TODO: Add delete logic here

                return RedirectToAction("Index");
            }
            catch
```

```
            {
                return View();
            }
        }
    }
}
```

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Api Entity Controller


```csharp
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using System.Web.Mvc;

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{
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        List<Product> ProList = new List<Product>();
        // GET: Product
        public ActionResult Index()
        {
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Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
            cn.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.Connection = cn;
            cmd.CommandType = System.Data.CommandType.Text;
            cmd.CommandText = "select * from Product_Tbl";

            try
            {
                SqlDataReader dr = cmd.ExecuteReader();
                while (dr.Read())
                {
                    ProList.Add(new Product
                    {
                        ProductId = dr.GetInt32(0),
                        ProductName = dr.GetString(1),
```

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                    Rate = dr.GetDecimal(2),
                    Description = dr.GetString(3),
                    CategoryName = dr.GetString(4)
                });
            }
            dr.Close();
        }
        catch (Exception e) { }
        cn.Close();

        return View(ProList);
    }

    // GET: Product/Details/5
    public ActionResult Details(int id)
    {
        return View();
    }

    // GET: Product/Create
    public ActionResult Create()
    {
        return View();
    }

    // POST: Product/Create
    [HttpPost]
    public ActionResult Create(Product p1)
    {
        try
        {
            // TODO: Add insert logic here
            SqlConnection cn = new SqlConnection();
            cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
            cn.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.Connection = cn;
            cmd.CommandType = System.Data.CommandType.Text;
            cmd.CommandText = "insert into
Product_Tbl(ProductId,ProductName,Rate,Description,CategoryName)values(@ProductId,
@ProductName, @Rate, @Description, @CategoryName)";
            cmd.Parameters.AddWithValue("@ProductId", p1.ProductId);
            cmd.Parameters.AddWithValue("@ProductName", p1.ProductName);
            cmd.Parameters.AddWithValue("@Rate", p1.Rate);
            cmd.Parameters.AddWithValue("@Description", p1.Description);
            cmd.Parameters.AddWithValue("@CategoryName", p1.CategoryName);

            cmd.ExecuteNonQuery();
            return RedirectToAction("Index");
        }
        catch
        {
            return View();
        }
    }

    // GET: Product/Edit/5
```

```csharp
        public ActionResult Edit(int id)
        {
            SqlConnection cn = new SqlConnection();
            cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
            cn.Open();
            SqlCommand cmd = new SqlCommand();
            cmd.Connection = cn;
            cmd.CommandType = System.Data.CommandType.Text;
            cmd.CommandText = "select * from Product_Tbl where ProductId = @ProductId";
            cmd.Parameters.AddWithValue("@ProductId",id);
            SqlDataReader dr = cmd.ExecuteReader();
            Product obj = null;
            if (dr.Read()) {
                obj = new Product
                {
                    ProductId = dr.GetInt32(0),
                    ProductName = dr.GetString(1),
                    Rate = dr.GetDecimal(2),
                    Description = dr.GetString(3),
                    CategoryName = dr.GetString(4)
                };
            }
            else {
                ViewBag.Error = "Record Not Found";
            }
            cn.Close();
            return View(obj);
        }

        // POST: Product/Edit/5
        [HttpPost]
        public ActionResult Edit(int id, Product p2)
        {
            try
            {

                // TODO: Add update logic here
                SqlConnection cn = new SqlConnection();
                cn.ConnectionString = @"Data Source=(localdb)\MSSQLLocalDB;Initial
Catalog=DotNetExam;Integrated Security=True;Connect Timeout=30;";
                cn.Open();
                SqlCommand cmd = new SqlCommand();
                cmd.Connection = cn;
                cmd.CommandType = System.Data.CommandType.StoredProcedure;
                cmd.CommandText = "update Product_Tbl set ProductName = @ProductName,Rate
= @Rate,Description = @Description,CategoryName = @CategoryName where ProductId =
@ProductId";
                cmd.Parameters.AddWithValue("@ProductId", id);
                cmd.Parameters.AddWithValue("@ProductName", p2.ProductName);
                cmd.Parameters.AddWithValue("@Rate", p2.Rate);
                cmd.Parameters.AddWithValue("@Description", p2.Description);
                cmd.Parameters.AddWithValue("@CategoryName", p2.CategoryName);
                cmd.ExecuteNonQuery();
                return RedirectToAction("Index");
            }
            catch
            {
```

```csharp
            return View();
        }
    }

    // GET: Product/Delete/5
    public ActionResult Delete(int id)
    {
        return View();
    }

    // POST: Product/Delete/5
    [HttpPost]
    public ActionResult Delete(int id, FormCollection collection)
    {
        try
        {
            // TODO: Add delete logic here

            return RedirectToAction("Index");
        }
        catch
        {
            return View();
        }
    }
    }
}
```