• Book CRUD Application - Portfolio Template

- **Developer:** Zunaira Maqbool

- **Purpose:** This document template is for adding screenshots and notes related to the Book CRUD Application.

• Project Overview

- Ye project ek **Book Management System** Hai jo main ASP.NET MVC or Entity Framework (Code First) use karke banana Hai.
  Iska main purpose ye Hai ke user easily apni books ka record maintain kar sake — jaise **nayi book add karna**, **list me sab books dekhna**, **details edit karna**, aur **unwanted books delete karna**.
- Is project ne mujhe MVC ke basic concepts aur CRUD operations practically samajhne me bohot help ki.
  Ye small lekin professional level project Hai jo backend logic, database handling aur Razor views ka perfect combination show karta Hai.

• ■■ Technologies Used

List the tools, languages, and frameworks you used.

- Is project me main ye technologies use ki hain:
- **ASP.NET MVC 5** → Project structure aur routing ke liye
- **C# Language** → Backend logic aur CRUD operations likhne ke liye
- **Entity Framework (Code First)** → Database automatically create aur manage karne ke liye
- **SQL Server** → Data store aur retrieve karne ke liye
- **Razor Views (HTML + CSS)** → Frontend display aur form design ke liye
- **Visual Studio 2019** → Development aur debugging ke liye

• ■■ Database Design

DESKTOP-V37ADG9...okDB - dbo.Books

	Id	Title	Author	Genre	Pages	PublishedD...
▶	1	Atomic Hab...	James Clear	Self Help	1500	2018-10-16 ...
	2	The Alchem...	Paulo Coelho	Fiction	208	1988-04-15 ...
	3	Deep Work	Cal Newport	Productivity	304	2016-01-05 ...
	4	The Psychol...	Morgan Ho...	Finance	256	2020-09-08 ...
	5	Think Like a ...	Jay Shetty	Motivation	328	2020-09-08 ...
*	NULL	NULL	NULL	NULL	NULL	NULL

-

- **Index Page (Read)**

Application name   Home   About   Contact

Index

Create New

Title	Author	Genre	Pages	PublishedDate	
Atomic Habits	James Clear	Self Help	1500	16-Oct-18 12:00:00 AM	Edit	Details	Delete
The Alchemist	Paulo Coelho	Fiction	208	15-Apr-88 12:00:00 AM	Edit	Details	Delete
Deep Work	Cal Newport	Productivity	304	05-Jan-16 12:00:00 AM	Edit	Details	Delete
The Psychology of Money	Morgan Housel	Finance	256	08-Sep-20 12:00:00 AM	Edit	Details	Delete
Think Like a Monk	Jay Shetty	Motivation	328	08-Sep-20 12:00:00 AM	Edit	Details	Delete

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- **Create Page**

Create

Book

Title	Think Like a Monk
Author	Jay Shetty
Genre	Motivation
Pages	328
PublishedDate	2020-09-08

Create

Back to List

-

- ▪️ **Edit Page**

Edit

Book

Title	Ikigai
Author	Hector Garcia
Genre	Self Help
Pages	1500
PublishedDate	16-Oct-18 12:00:00 AM
	Save

Back to List

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- **Delete Page**

Delete

Are you sure you want to delete this?

Book

Title	Ikigai
Author	Hector Garcia
Genre	Self Help
Pages	1500
PublishedDate	16-Oct-18 12:00:00 AM

Delete | Back to List

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- **Controller Code**

```
using BooksaManangement.Models;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;

namespace BooksaManangement.Controllers
{
    public class BookController : Controller
    {
        AppDbContext db = new AppDbContext();
        // GET: Book
        public ActionResult Index()
        {
            var a = db.Books.ToList();
            return View(a);
        }
        public ActionResult Create()
        {

            return View();
        }
        [HttpPost]
        public ActionResult Create(Book BK )
        {
            db.Books.Add(BK);
            db.SaveChanges();
```

```csharp
            return RedirectToAction("Index");
        }
        public ActionResult Edit(int id)
        {
            var a = db.Books.Find(id);
            return View(a);

        }
        [HttpPost]
        public ActionResult Edit(Book Bk)

        {
            db.Entry(Bk).State = System.Data.Entity.EntityState.Modified;
            db.SaveChanges();


            return RedirectToAction("Index");
        }
        public ActionResult Delete(int id)
        {
            var a = db.Books.Find(id);
            return View(a);

        }
        [HttpPost]
        public ActionResult ConfirmedDelete(int id)
        {
            var a = db.Books.Find(id);
            db.Books.Remove(a);
            db.SaveChanges();
            return RedirectToAction("Index");

        }


    }

}
```

Model and Context

```csharp
public class Book
    {
        public int Id { get; set; }
        public string Title { get; set; }
        public string Author { get; set; }
        public string Genre { get; set; }
        public int Pages { get; set; }
        public DateTime PublishedDate { get; set; }

    }
```

- public class AppDbContext :DbContext
- {
  - public DbSet<Book> Books { get; set; }
- }

- **Final Output**
- Is Book Management System (CRUD Application) ka final output ye show karta Hai ke project ke tamam basic operations —
  Create, Read, Update, aur Delete (CRUD) — successfully kaam kar rahe hain using **ASP.NET MVC 5** aur **Entity Framework (Code First)**.
- User new books add kar sakta Hai "Create" form ke zariye.
  Index page par saari books ka data table ki form mein show hota Hai.
  Har record ko edit karke update kiya ja sakta Hai, aur unwanted records ko delete bhi kiya ja sakta Hai.
  Saare changes automatically database (SQL Server) mein reflect ho jaate hain.
- Ye project ek complete CRUD workflow dikhata Hai — jisme data user se input hota Hai,
  controller process karta Hai, aur Entity Framework usay database ke saath sync karta Hai.

- ■■ **Personal Notes**
- Is Book Management System project ne mujhe ASP.NET MVC aur Entity Framework (Code First) ka clear concept samjhaaya.
  Main ne seekha ke CRUD operations (Create, Read, Update, Delete) kis tarah model, controller aur view ke zariye kaam karte hain.
  Ye project chhota tha lekin is ne mujhe backend development ka strong base aur confidence diya future projects ke liye 🚀

- (Add Screenshot Here)

- ***End of Portfolio Template***
- Save this file after adding screenshots using Microsoft Word or any PDF editor.