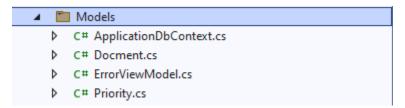


MVC, which stands for Model-View-Controller, is a software architectural pattern commonly used in designing and developing interactive and dynamic web applications.

## 1) Model

The Model represents the application's data and business logic. It encapsulates the data and the rules for manipulating that data.

Files that represent model in this project:-



## A) ApplicationDbContext:

This code is a C# class that represents an Entity Framework Core DbContext, which is used for interacting with a database in a .NET application.

```
Sign % - 0 × Sign
```

#### **B)** Docment.cs:

This code defines a C# class named **Docment** within the **Streams.Models** namespace, representing a model for documents in an ASP.NET Core MVC application.

#### The Docment Class has relationship with Priority Class.

```
using System.ComponentModel.DataAnnotations;
       using System.ComponentModel.DataAnnotations.Schema
       ⊟namespace Streams.Models
            public class Docment
                 [DatabaseGenerated(DatabaseGeneratedOption.Identity)]
                 public int ID { get; set; }
                 [Required(ErrorMessage = "Name is required.")]
13
                 public string Name { get; set; }
                 [Required(ErrorMessage = "Created Date is required.")]
                 public DateTime CreatedDate { get; set; }
[ForeignKey("Priority")]
16
17
                 public int PriorityID { get; set; }
                 [Remote("checkDuedate", "Docment", AdditionalFields = nameof(CreatedDate), ErrorMessage = "Due Date must be after Created date.")]
[Required(ErrorMessage = "Due Date is required. ")]
20
21
22
                 public DateTime DueDate { get; set; }
                 [NotMapped] // Exclude this property from database mapping
[Required(ErrorMessage = "File is required.")]
                 [DataType(DataType.Upload)]
                 public IFormFile File { get; set; }
                 public string? FilePath { get; set; }
```

## C) Priority.cs:

This code defines a C# class named Priority within the Streams.Models namespace, representing a model for priorities in an application.

```
Prioritys • X

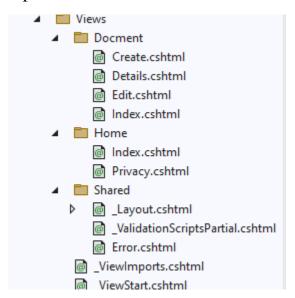
Streams

- **Streams.Models.Priority

- **Streams.Models.Pr
```

# 2) View

The View is responsible for presenting the data to the user and receiving user input.



Docment Folder has 4 view pages each one represents a web page:

A) Create.cshtml:

```
SelectList PriorityItems = new SelectList(ViewData["PriorityList"] as List<Priority>, "ID", "Name");
      =<div class="container vh-auto">
           12
13
14
                    <form method="post" action="/Docment/SaveCreate" enctype="multipart/form-data" style="font-family: lobster ,'Dancing Script' ; font-weight:</pre>
                        16
17
                                <label class="strg">Name</label>
                            </div>
<div class="col-8">
                                <input asp-for="Name" class="form-control" />
<span asp-validation-for="Name" class="text-danger"></span>
                        </div>
23
24
25
                        <div class="row mb-4">
    <div class="col-4">
                                 <label asp-for="File" class="strg"></label>
                              </div>
28
29
                            <div class="col-8">
                            <ird class="col-8">
  <input asp-for="File" type="file" class="form-control" />
  <span asp-validation-for="File" class="text-danger"></span>
</div>
                           </div>
33
                        <div class="row mb-4">
  <div class="col-4">
                                                                                                                                                ▶ Ln: 23 Ch: 23 SPC CRLF
```

#### B)Details.cshtml:

```
<div class="container vh-75 ">
              <div class="card mx-auto mt-5 " style="background-color: □#f8f9fa; border-radius: 15px; box-shadow: 0 4px 8px □rgba(0,0,0,0.1);">
                   <div class="card-body text-center">
    <div class=" mb-5 d-flex align-items-center"
    <div class="col-1">
                                  <a href="/Docment/Index">
<img src="/assets/previous.png" style="width: 50px; height: 50px;">
                                  </a>
10
11
                             </div>
<div class="col-9">
12
13
14
                                  <h1 style="color: | dodgerblue; font-family: lobster ,'Dancing Script'; font-weight: bold;">File Details</h1>
                             </div>
15
16
                        </div>
                        <div class="divmain ">
17
18
19
                             <strong class="strg">File Name :</strong>
@Model.Name
                        </div>
                        <div class="divmain ">
                             <strong class="strg">Created Date :</strong>
@Model.CreatedDate
23
24
25
26
27
                        </div>
                        <div class="divmain">
                             <strong class="strg">Due Date :</strong>
cp class="card-text">@Model.DueDate
                        <strong class="strg">Priority :</strong>
@Model.Priority.Name
</div>
                                                                                                                                                                                  Ln: 1 Ch: 1 SPC CRLF
```

### C) Edit.cshtml:

```
@model Docment
          ViewData["Title"] = "Edit Document";
          SelectList PeriorityItems = new SelectList(ViewBag.PriorityList, "ID", "Name");
          <div class="card-body ">

<p
10
11
12
13
                  <form method="post" action="/Docment/SaveEdit/@Model.ID" class="mb-5" style="font-family: lobster ,'Dancing Script' ; font-weight: bold;">
14
                      <div class="row mb-4">
                         <div class="col-4">
   <label class="strg">Name</label>
                         </div>
                         19
20
21
                         </div>
22
23
                     <div class="row mb-4">
  <div class="col-4">
24
25
26
27
28
                             <label class="strg">Created Date</label>
                         </div>
<div class="col-8">
                             <input asp-for="CreatedDate" class="form-control" />
                         </div>
                      </div>
                      <div class="row mb-4">
32
33
                         <div class="col-4">
                             <label class="strg">File Path</label>
                          </div>
                                                                                                                                   Ln: 12 Ch: 13 SPC CRLF
```

### D) Index.cshtml:

```
E<div class="container mt-5 mb-5" >
          Name
                     Created Date
                     Priority
10
                     Due Date
11
12
                     Edit
                     Show
13
                     Delete
                 </thead>
15
             16
17
18
                        @item.Name
20
21
22
                        @item.CreatedDate
                        @item.Priority.Name

@item.DueDate

23
24
25
                        <a href="/Docment/Edit/@item.ID" class="btn btn-outline-warning py-2">Edit Document</a>
<a href="/Docment/Details/@item.ID" class="btn btn-outline-primary py-2">Show Details</a>
<a href="/Docment/Details/@item.ID" class="btn btn-outline-danger py-2">Delete Document</a>

26
27
                     28
29
30
              </tbody
31
          </div>
33
```

# Home Folder has 1 view pages represents a web page which contains slider:

#### A) Index.cshtml:

```
ViewData["Title"] = "Home Page";
       <!-- Carousel Start -->
      -<div id=¹</p>
            <div id="carouselId" class="carousel mx-auto" data-bs-ride="carousel" style="width: 100%; height: 600px; overflow: hidden;">
                <div class="carousel-inner" role="listbox">
                    <div class="carousel-item active">
    <img src="/assets/mobile2.jpg" class="img-fluid w-100 h-100" alt="First slide">
10
11
                        <div class="carousel-caption p-0">
    <div class="carousel-content">
                                <h6 class="text-secondary h4 animated fadeInUp">Best IT Solutions</h6>
                                <hl class="text-white display-1 mb-4 animated fadeInRight">An Innovative IT Solutions Agency</hl>
<pclass="mb-4 text-white fs-5 animated fadeInDown">Lorem ipsum dolor sit amet elit. Sed efficitur quis purus ut interdum. Pelle
15
16
                             </div>
                        </div>
                    </div>
                   20
21
24
25
26
27
                         </div>
                     </div>
30
31
32
                </div>
            </div>
       </div>
            Carousel End -->
                                                                                                                                                   Ln: 23 Ch: 55 SPC CRLF
```

#### Shared Folder that has components that will be shared in all project:

```
| Type |
```

# 3) Controller

The Controller acts as an intermediary between the Model and the View. It receives user input from the View, processes it, and updates the Model and the View accordingly.



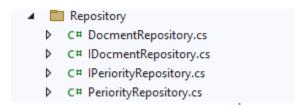
### A) DocmentController.cs:

It contains the Action Methods(Index, Details, Delete, Create, SaveCreate, Edit, SaveEdit, checkDuedate)

```
→ Streams.Controllers.DocmentController

                                                                                                                                                          ▼ SaveCreate(Docment doc, IFormFile file)
                    <sup>elerences</sup>
iblic DocmentController(ApplicationDbContext _context, IDocmentRepository _docRepo , IPeriorityRepository _perioRepo)
                     this._docmentRepository = _docRepo;
this._periorityRepository = _perioRepo;
this._context = _context;
                 // GET: docment/index
                 public IActionResult Index()...
                 // GET: Documents/Details/2
                 public IActionResult Details(int? id)...
                 public IActionResult Delete(Docment? doc)...
                 // GET: Documents/Create
                 public IActionResult Create()...
                 [HttpPost]
                  public IActionResult SaveCreate(Docment doc, IFormFile file)...
                 public IActionResult Edit(int id)...
[HttpPost]
122
139
                    references
ublic IActionResult SaveEdit(Docment doc)...
                  public IActionResult checkDuedate(DateTime CreatedDate, DateTime DueDate)...
167 [}
- ② 0 ▲ 3 ↑ ↓ │ ※ →
                                                                                                                                                                                                                    Ln: 67 Ch: 19 SPC CRLF
```

\* To Guide the Solid Principle, We make repository folder which contains interfaces like (IDocmentRepository, IPeriorityRepository) which contains the CRUD opertaions and (DocmentRepository, PeriorityRepository) that implement the two interfaces.



Thanks.