



Streamlining Document Management with ASP.NET

Dimitrios Angelakos



College Park Scholars – Science & Global Change Program
Computer Science
dangelak@terpmail.umd.edu
CPSG230
College Park Scholars Academic Showcase, May 9, 2025

Introduction

I interned with Geisinger Health’s IT department, where they use Microsoft’s .NET Framework, a development platform that utilizes languages such C# and F#. I was tasked with modifying an existing website that was built using ASP.NET MVC. MVC stands for:

- Model - Data structures and databases
- View - What the user sees
- Controller - Facilitates communication between model and view; handles user input



Why it Mattered:

Now, instead of all the work being done by one person, individuals can upload benefit docs themselves. This removes a lot of tedium and allows for a more efficient use of time.

Site Information:

Geisinger Health:
100 N Academy Ave, Danville, PA 17822
(570) 271-6211
<https://www.geisinger.org/>
Supervisor: Mike Trelease
Purpose: Be the best
Priorities

1. Provide exceptional care to all
2. Foster trust, connection and well-being
3. Lead healthcare forward
4. Strengthen our communities

The Problem:

Whenever a new benefit document was created, one person was tasked with inputting all of its details into the website, which would update a corresponding database. This same person also had to upload the file to a server. This was inefficient and time-consuming.

What I Did:

- Allowed documents to be upload to the server at the same time the database was updated
- Enforced naming conventions
- Automatically changed the termination date of old documents if the new document is replacing it.

Current Documents								
<input type="text"/>			Search	Reset	Create a new Document			
Type	Doc	Sub. Cert	Doc. Description	Effective Date	Termination Date	Rev.	PDF File	Delete Selected i
R	M-150-660-F		Mail Order Prescription Drug- Same Copayment- Gold	10/1/2001	12/31/9999	REV03_02	M-150-660-F.pdf	<input type="checkbox"/>
R	M-150-661-F		Outpatient Prescription Drugs- \$5 Copay-Gold	3/1/2002	12/31/2004	REV03_02	M-150-661-F-REV03_02.pdf	<input type="checkbox"/>
R	M-150-662-F		Outpatient Prescription Drugs- \$6 Copay-Gold	3/1/2002	12/31/2004	REV03_02	M-150-662-F-REV03_02.pdf	<input type="checkbox"/>
R	M-150-663-F		Outpatient Prescription Drugs- \$8 Copay-Gold	3/1/2002	12/31/2004	REV03_02	M-150-663-F-REV03_02.pdf	<input type="checkbox"/>
R	M-150-664-F		Outpatient Prescription Drugs- \$10 Copay-Gold	3/1/2002	12/31/2004	REV03_02	M-150-664-F-REV03_02.pdf	<input type="checkbox"/>

List of benefit documents. This sections displays data retrieved from the database

Challenges/What I Learned:

Prior to this internship, I had limited experience with web development and working databases, both of which this project relied on. I had to learn quickly and problem-solve effectively in order to meet the demands of this role.

In addition to expanding my technical abilities, I also learned how to work as a software developer in a team. At university, most of my work is done solo (and at a much smaller scale). This experience showed me what software development looks like in a corporate setting, from the communication to all of practices that ensure a high quality product.

Acknowledgments:

Thank you to Mike Trelease and Brian Burgit for giving me this opportunity. Thank you to Dr. Holtz and Dr. Merck for guiding me and supporting me throughout my time in SGC



New Ghp Document

This screen will upload a new document and create a new database record. If a current document with the same id exists, it will be termed.

• File name must look like "M-###-###-F-Rev##_##_pdf"

Upload Pdf File*

Choose File

No file chosen

Type Of Document*

Amendment

Effective Date*

04/14/2025

Termination Date*

12/31/9999

Description*

TEST

Divisions

Specific Division*

AddDelete

Transaction Date

Transaction User

Audit Comments

Save

Back to List

The updated website. Includes file upload functionality and filename validation.

