Full-Stack Web Dev Traning- Report

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LAYERS

NORMAL ▼ OPACITY 100% ▼

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SMART OBJECT

Define Database Schema

Relationships Between Tables

Users ↔ Documents (One-to-Many):

A single user can upload multiple documents.

Documents ↔ VerificationLogs (One-to-Many):

A single document can have multiple verification logs (e.g., if it is verified multiple times or if the status changes).

 (Foreign Key).

Users ↔ VerificationLogs (One-to-Many):

A single user (verifier) can verify multiple documents.

```csharp
3 references
public class User
{
    [Key]
    0 references
    public int Id { get; set; }


    [Required, MaxLength(100)]
    0 references
    public string Name { get; set; }

    [Required, EmailAddress, MaxLength(255)]
    0 references
    public string Email { get; set; }

    [Required]
    0 references
    public string Password { get; set; }

    [Required, MaxLength(50)]
    0 references
    public string Role { get; set; }

    // One to many relationship with the Document table
    0 references
    public List<Document> Documents { get; set; }

        // One to many relationship with the VerficationLog table
    0 references
    public List<VerificationLog> VerificationLogs { get; set; }

}
```

```csharp
3 references
public class Document
{
    [Key]
    0 references
    public int Id { get; set; }

    [Required]
    0 references
    public int UserId { get; set; }

    [Required, MaxLength(255)]
    0 references
    public string Title { get; set; }

    [Required, MaxLength(500)]
    0 references
    public string FilePath { get; set; }

    [MaxLength(100)]
    0 references
    public string VerificationCode { get; set; }

    [Required, MaxLength(50)]
    0 references
    public string Status { get; set; }

    [Required]
    0 references
    public DateTime CreatedAt { get; set; }

    [ForeignKey("UserId")]
    0 references
    public User User { get; set; }

    // One to many relationship with the VerficationLog table
    0 references
    public List<VerificationLog> VerificationLogs { get; set; }
}
```

```csharp
public class VerificationLog
{
    [Key]
    0 references
    public int Id { get; set; }


    [Required]
    1 reference
    public int DocumentId { get; set; }


    [Required]
    1 reference
    public int VerifiedBy { get; set; }


    [Required]
    0 references
    public DateTime Timestamp { get; set; }


    [Required, MaxLength(50)]
    0 references
    public string Status { get; set; }


    // Navigation properties
    [ForeignKey("DocumentId")]
    1 reference
    public Document Document { get; set; }


    [ForeignKey("VerifiedBy")]
    1 reference
    public User User { get; set; }
}
```

```
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
info: Microsoft.EntityFrameworkCore.Database.Command[20101]
      Executed DbCommand (2ms) [Parameters=[], CommandType='Text', CommandTimeout='30']
      DECLARE @result int;
      EXEC @result = sp_releaseapplock @Resource = '__EFMigrationsLock', @LockOwner = 'Session';
      EXEC @result = sp_releaseapplock @Resource = '__EFMigrationsLock', @LockOwner = 'Session';
      SELECT @result
      SELECT @result
Done.
```

Object Explorer

Connect ▾

- ☐ (localdb)\MSSQLLocalDB (SQL Server 15.0.4382 - RAZAN_CSLAP2024\razan)
  - ☐ Databases
    - ⊞ System Databases
    - ⊞ Database Snapshots
    - ☐ DocumentVerificationDB
      - ⊞ Database Diagrams
      - ☐ Tables
        - ⊞ System Tables
        - ⊞ FileTables
        - ⊞ External Tables
        - ⊞ Graph Tables
        - ⊞ dbo.__EFMigrationsHistory
        - ⊞ dbo.Documents
        - ⊞ dbo.Users
        - ⊞ dbo.VerificationLogs

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Results | Messages

	Id	VerifiedBy	Timestamp	Status	DocumentId
1	1	1	2025-03-08 01:20:57.9171234	Verified	2

	Id	Name	Email	Password	Role
1	1	John Doe	john.doe@example.com	password123	Admin
2	2	Jane Smith	jane.smith@example.com	password456	User

	Id	UserId	Title	FilePath	VerificationCode	Status	CreatedAt
1	1	1	Identity Proof	/documents/identity_proof.pdf	ABC123	Pending	2025-03-08 01:20:57.8809295
2	2	2	Address Proof	/documents/address_proof.pdf	XYZ789	Verified	2025-03-07 01:20:57.8818864

Implement Backend API

Save ⌄   Share

GET ⌄   http://localhost:5075/api/documents/1   **Send** ⌄

Params   Authorization   Headers (6)   Body   Scripts   Settings   Cookies

Query Params

Key		Value	Description	Bulk Edit
Key		Value	Description	

Body   Cookies   Headers (4)   Test Results   **200 OK** • 173 ms • 360 B   Save Response

{} JSON ⌄   ▷ Preview   Visualize ⌄

```json
1   {
2       "id": 1,
3       "userId": 1,
4       "title": "Identity Proof",
5       "filePath": "/documents/identity_proof.pdf",
6       "verificationCode": "ABC123",
7       "status": "Pending",
8       "createdAt": "2025-03-08T01:20:57.8809295",
9       "user": null,
10      "verificationLogs": null
11  }
```

Save   Share

GET   http://localhost:5075/api/documents/2   Send

Params   Authorization   Headers (6)   Body   Scripts   Settings   Cookies

Query Params

	Key	Bulk Edit	Value	Description	Bulk Edit
	Key		Value	Description	

Body   Cookies   Headers (4)   Test Results   200 OK • 17 ms • 359 B   Save Response

{} JSON ∨   ▷ Preview   Visualize ∨

```json
1  {
2      "id": 2,
3      "userId": 2,
4      "title": "Address Proof",
5      "filePath": "/documents/address_proof.pdf",
6      "verificationCode": "XYZ789",
7      "status": "Verified",
8      "createdAt": "2025-03-07T01:20:57.8818864",
9      "user": null,
10     "verificationLogs": null
11 }
```

POST ⌄ | http://localhost:5075/api/documents | **Send** ⌄

Params | Authorization | Headers (8) | Body ● | Scripts | Settings | **Cookies**

○ none | ○ form-data | ○ x-www-form-urlencoded | ● raw | ○ binary | ○ GraphQL | JSON ⌄ | **Beautify**

```json
1  {
2    "userId": 1,
3    "title": "Passport",
4    "filePath": "/documents/passport.pdf",
5    "status": "Pending"
6  }
```

Body | Cookies | Headers (5) | Test Results | 🕐   **201 Created** • 325 ms • 389 B • 🌐 | 📧 Save Response ⚬⚬⚬

{} JSON ⌄ | ▷ Preview | ✨ Visualize | ⌄   ⇥ 🗐 🔍 🔗

```json
1  {
2    "id": 3,
3    "userId": 1,
4    "title": "Passport",
5    "filePath": "/documents/passport.pdf",
6    "verificationCode": "24440ae0",
7    "status": "Pending",
8    "createdAt": "2025-03-08T03:0
9    "user": null,
10   "verificationLogs": null
11  }
```

	Id	UserId	Title	FilePath	VerificationCode	Status	CreatedAt
1	1	1	Identity Proof	/documents/identity_proof.pdf	ABC123	Pending	2025-03-08 01:20:57.8809295
2	2	2	Address Proof	/documents/address_proof.pdf	XYZ789	Verified	2025-03-07 01:20:57.8818864
3	3	1	Passport	/documents/passport.pdf	24440ae0	Pending	2025-03-08 03:07:49.6146402

POST ∨ http://localhost:5075/api/verify **Send** ∨

Params   Authorization   Headers (8)   Body •   Scripts   Settings   **Cookies**

◯ none   ◯ form-data   ◯ x-www-form-urlencoded   ● raw   ◯ binary   ◯ GraphQL   JSON ∨   **Beautify**

```json
1  {
2    "id": 2,
3    "verificationCode": "XYZ789"
4  }
```

Body   Cookies   Headers (4)   Test Results ⟲   200 OK • 556 ms • 181 B 🌐 🔤 Save Response ⋯

{} JSON ∨   ▷ Preview   ✨ Visualize | ∨

```
1  "Document verified successfully!"
```

Save ∨   Share

POST ∨   http://localhost:5075/api/verify   **Send** ∨

Params   Authorization   Headers (8)   Body ●   Scripts   Settings   **Cookies**

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   JSON ∨   **Beautify**

```
1  {
2    "id": 1,
3    "verificationCode": "ABC123"
4  }
```

Body   Cookies   Headers (4)   Test Results | ↺   **401 Unauthorized** • 16 ms • 201 B • ⊕ | Save Response   ○○○

{} JSON ∨   ▷ Preview   ⊙ Visualize | ∨

```
1 ∨ {
2        "message": "Document verification failed."
3   }
```

Create Angular Components
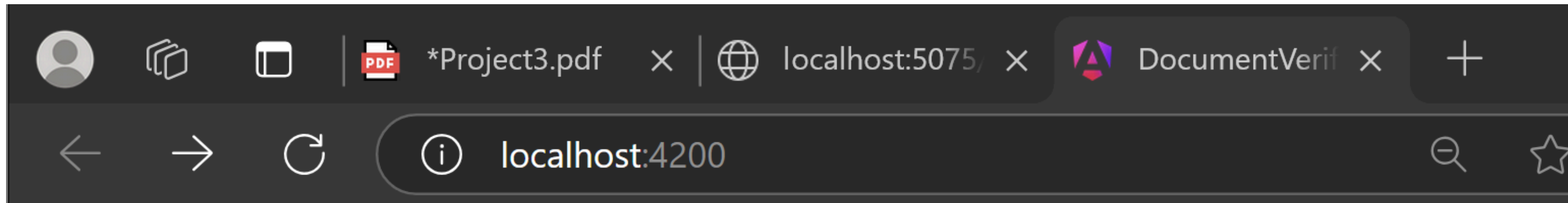
```
∨ src

  ∨ app

    ⟩ dashboard

    ⟩ document-upload

    ⟩ verification
```

Develop a DashboardComponent for document listing.
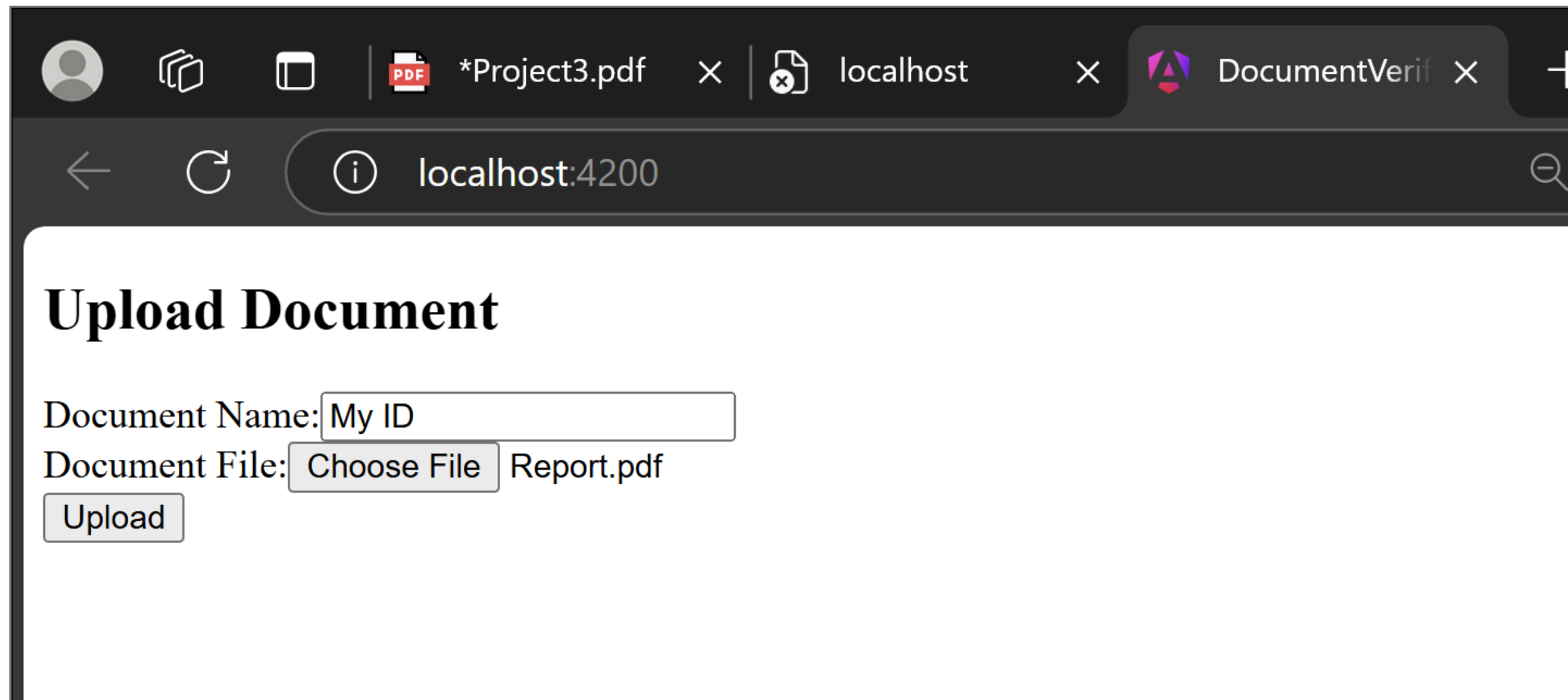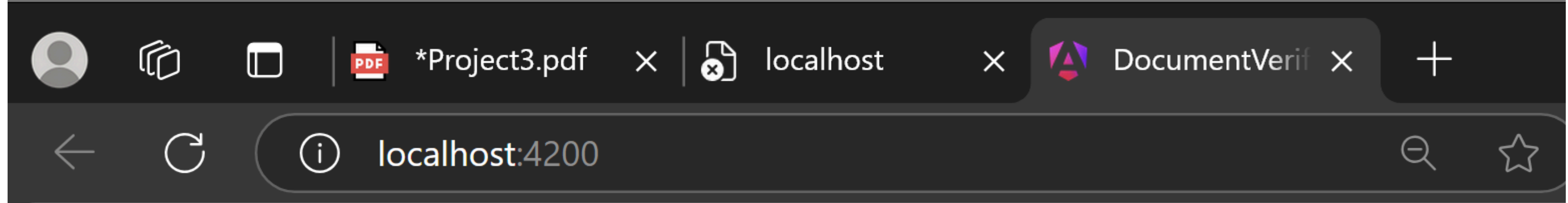
Document Detailes Dashboard

- Title: Address Proof

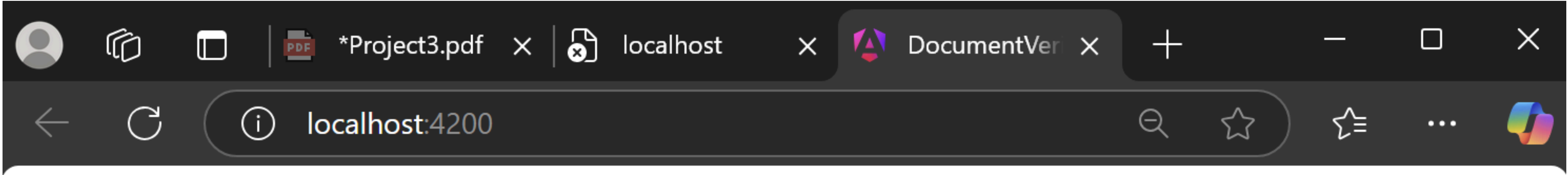 Verification Code: XYZ789

  Created on: Mar 7, 2025

  Status: Verified

Create a DocumentUploadComponent with form validation.
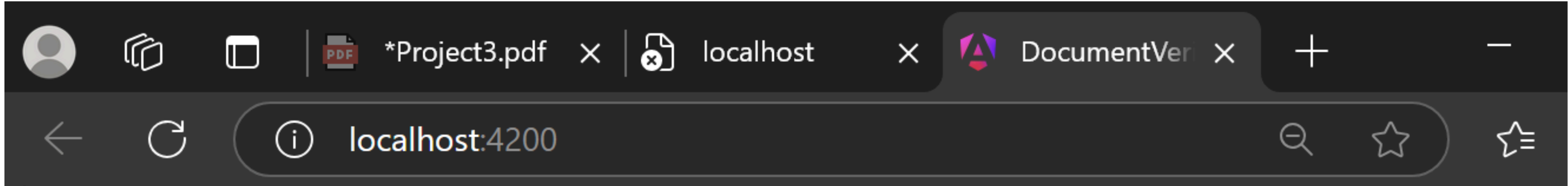
Upload Document

Document Name:
Document File: Choose File No file chosen
Upload

Upload Document

Document Name: My ID

Document File: Choose File   SSMS.pdf

Upload

Document uploaded successfully!

wwwroot\uploads

SSMS.pdf

	Id	UserId	Title	FilePath	VerificationCode	Status	CreatedAt
1	1	1	Identity Proof	/documents/identity_proof.pdf	ABC123	Pending	2025-03-08 01:20:57.8809295
2	2	2	Address Proof	/documents/address_proof.pdf	XYZ789	Verified	2025-03-07 01:20:57.8818864
3	3	1	Passport	/documents/passport.pdf	24440ae0	Pending	2025-03-08 03:07:49.6146402
4	8	1	My ID	C:\Users\razan\verficationSystem\Backend\Documen...	f5dad8a8	Pending	2025-03-08 07:48:08.2956415

Build a VerificationComponent to enter a VerificationCode.

Verify Document

Document ID:

Verification Code:

Verify