



## Mobile Computing

### Project Title: Document Management System (DMS)

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## Project Description

The **Document Management System (DMS)** is a comprehensive web-based solution designed to enhance how users store, organize and interact with their documents. The **frontend**, developed using **Angular**, features a clean, modern and fully **responsive user interface**, ensuring a seamless experience across desktops, tablets and mobile devices. Users are provided with an intuitive dashboard that makes it easy to navigate through **workspaces, directories and documents**.

With just a few clicks, users can:

- **Upload** and categorize documents into structured directories
- **Preview** files directly in the browser before downloading
- **Download** documents quickly with clear access points
- **Rename or delete** folders and files with confirmation modals to avoid mistakes

The **backend**, powered by **.NET**, ensures robust performance, secure data handling and smooth interaction between client and server.

Focused on delivering a great **user experience**, the system includes:

- **Real-time visual feedback** on actions like uploading or deleting
- **Modals and dialogs** for confirming sensitive actions
- **Instant UI updates** without the need to refresh the page
- **Clear navigation flow** that maintains context when opening shared or personal folders

## Project Features

- **Core Features**

### For Document Management:

- Upload, preview, download, rename and delete documents
- Organized in a structured directory/folder system
- Soft delete (items removed from view but not permanently erased)

### For Workspace & Directory Management:

- Create, rename and delete folders and directories
- Hierarchical structure for better organization
- Personal and shared workspace views

### For Intuitive UI/UX:

- Responsive design using Angular for cross-device compatibility
- Clean layout with modals for confirmation (e.g., delete confirmation)
- Real-time UI updates (no page reloads after actions)

- **Technical Features**

### For Frontend:

- Built with **Angular**
- Uses Angular Material and Bootstrap for UI components

- Reactive forms for handling user input
- Modular and component-based structure

### **For Backend:**

- Built using **.NET** (C#)
- RESTful APIs for document and workspace management
- Token-based authentication (JWT) for secure communication
- Used **SQL** for database

### **For Integration:**

- Token interceptor to attach auth token in every request
- Routing with query parameters (e.g., ?isShared=true) for contextual navigation
- Use of modals for update and delete actions (NgbModal for popups)
- **User-Centric Features**
  - Document preview before download
  - Feedback for success and error states
  - Clear messages and validations for user actions
  - Navigation that preserves context (especially for shared folders)

## Screenshots Of Project

- Login Screen



**Login**

email\*

password\*

[Login](#) [Sign up](#)

**DMS**

HOME AGENT ABOUT LISTING BLOG CONTACT

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- Invalid Email & Password During Login

**Login**

email\*

password\*

**Error! Invalid Email**

[Login](#) [Sign up](#)

**Login**

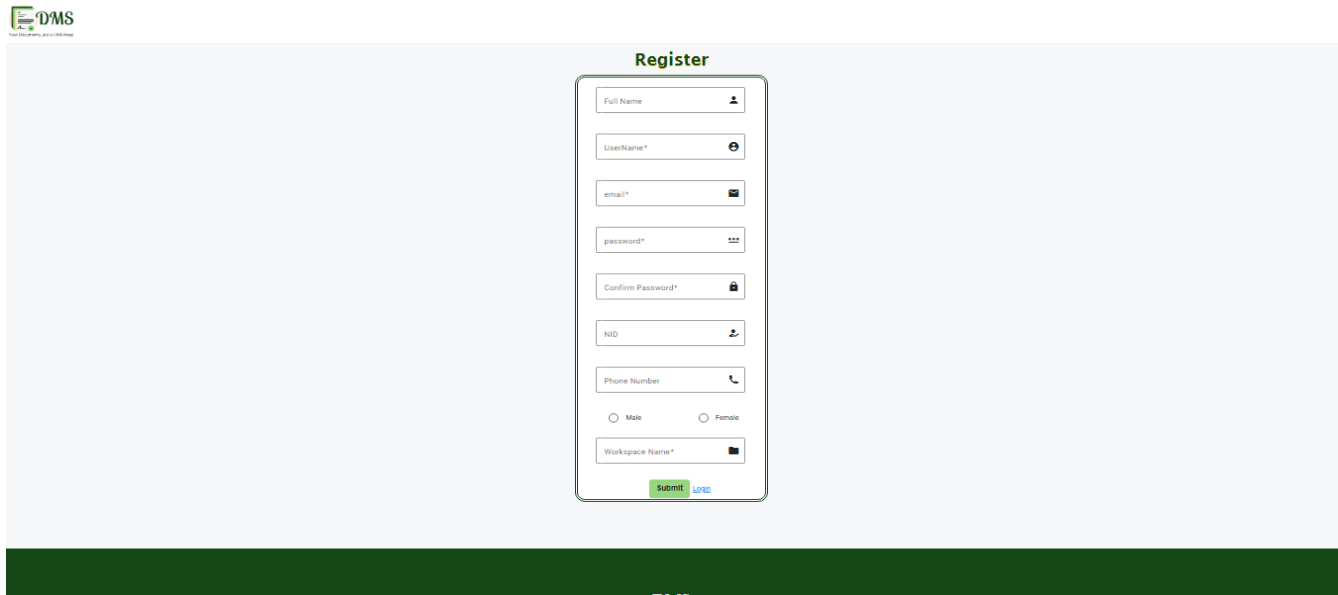
email\*

password\*

**Error! Invalid password**

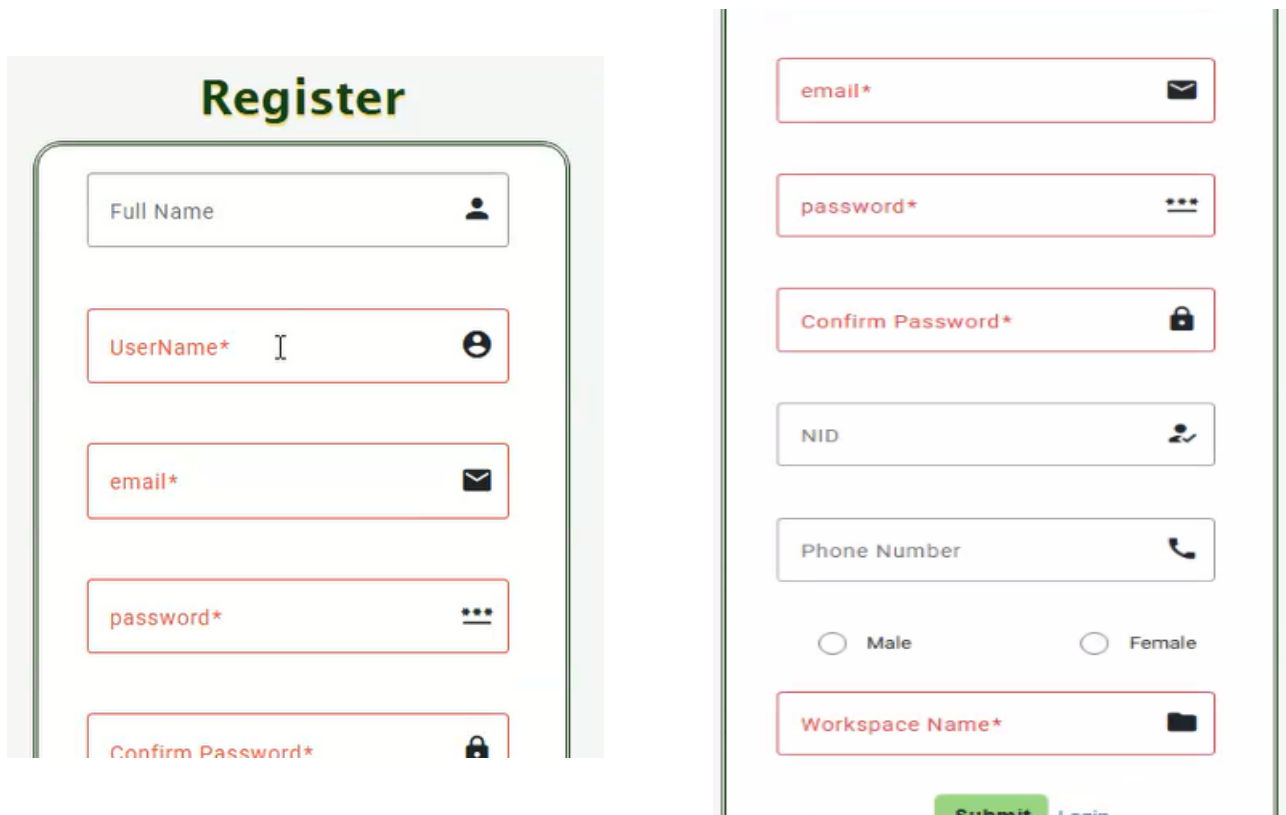
[Login](#) [Sign up](#)

- Registration Screen



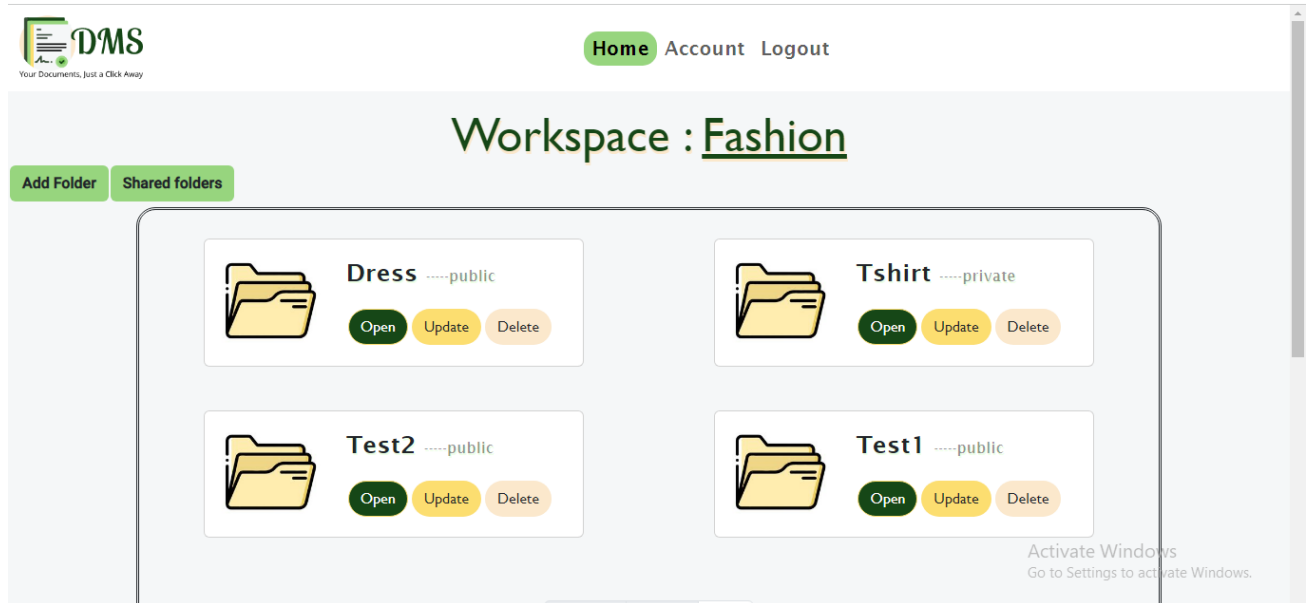
The screenshot shows the 'Register' screen of a DMS application. The header includes the DMS logo and the title 'Register'. The form contains the following fields: Full Name, UserName\*, email\*, password\*, Confirm Password\*, NID, Phone Number, gender selection (Male/Female), and Workspace Name\*. A green 'Submit' button and a blue 'Login' link are at the bottom. A dark green footer bar is visible at the bottom of the page.

- Validations On Registration Screen

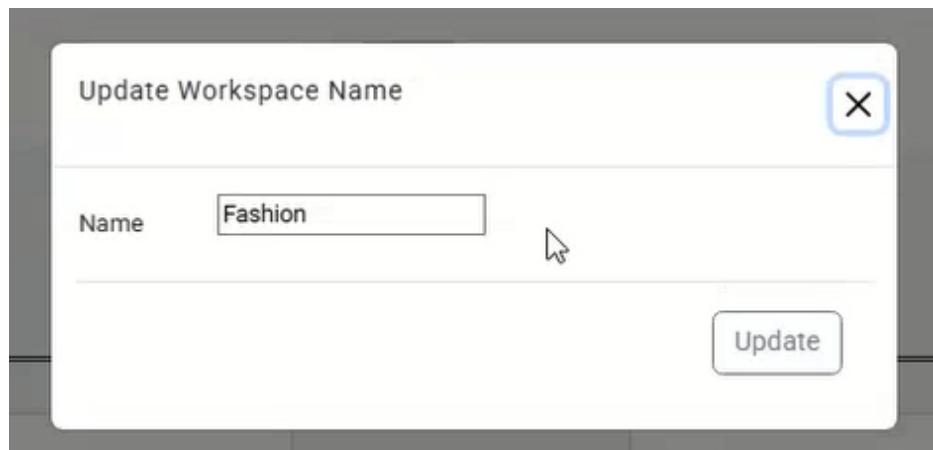


This screenshot shows the 'Register' form with validation errors. Red borders and error messages are present on the following fields: 'UserName\*' (with an 'I' cursor), 'email\*', 'password\*', 'Confirm Password\*', and 'Workspace Name\*'. The 'Full Name', 'NID', 'Phone Number', and gender selection fields are valid. The 'Submit' button is highlighted in green, and the 'Login' link is blue.

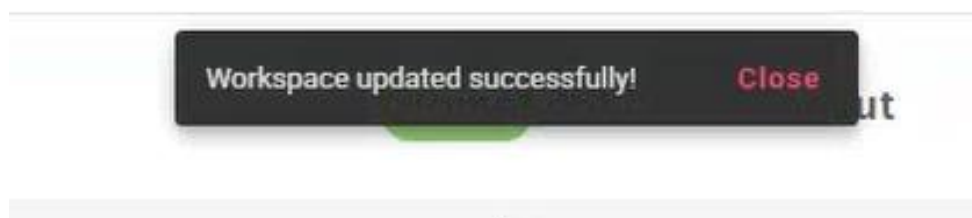
- Workspace Screen



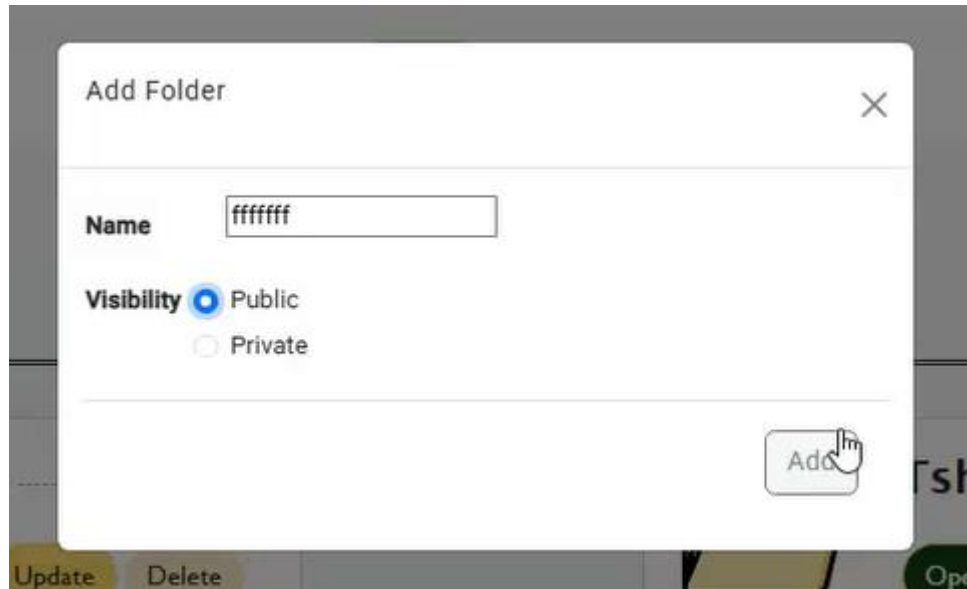
- Update Workspace Name



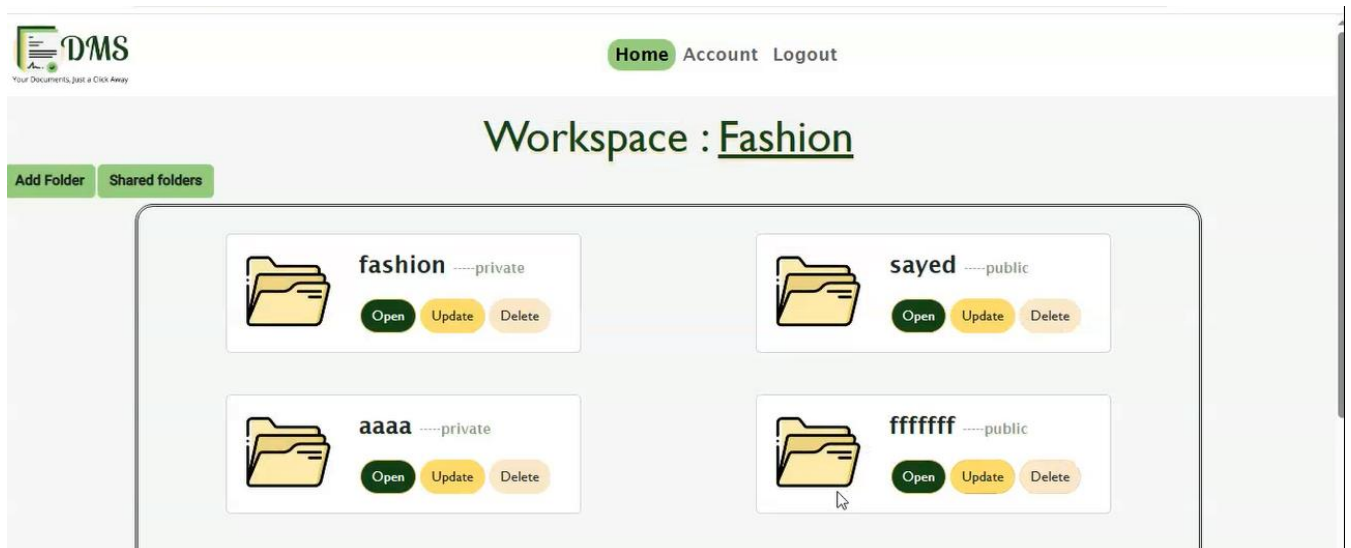
- Notification Received for the update



- Add Folder

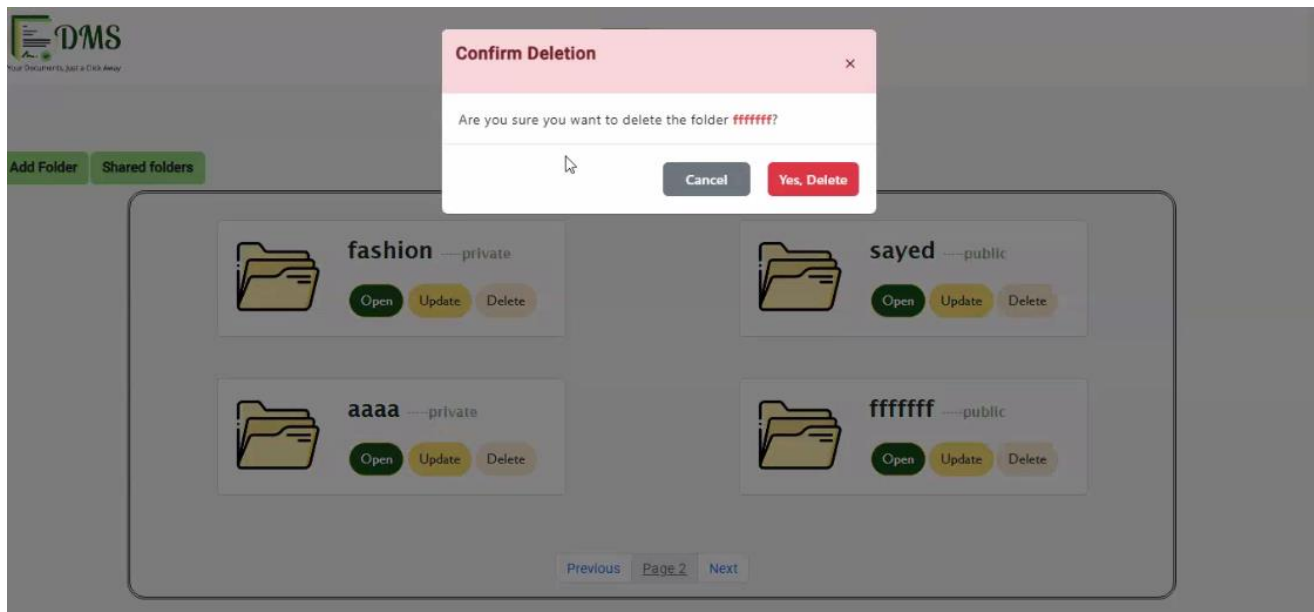


- Folder is added to the workspace

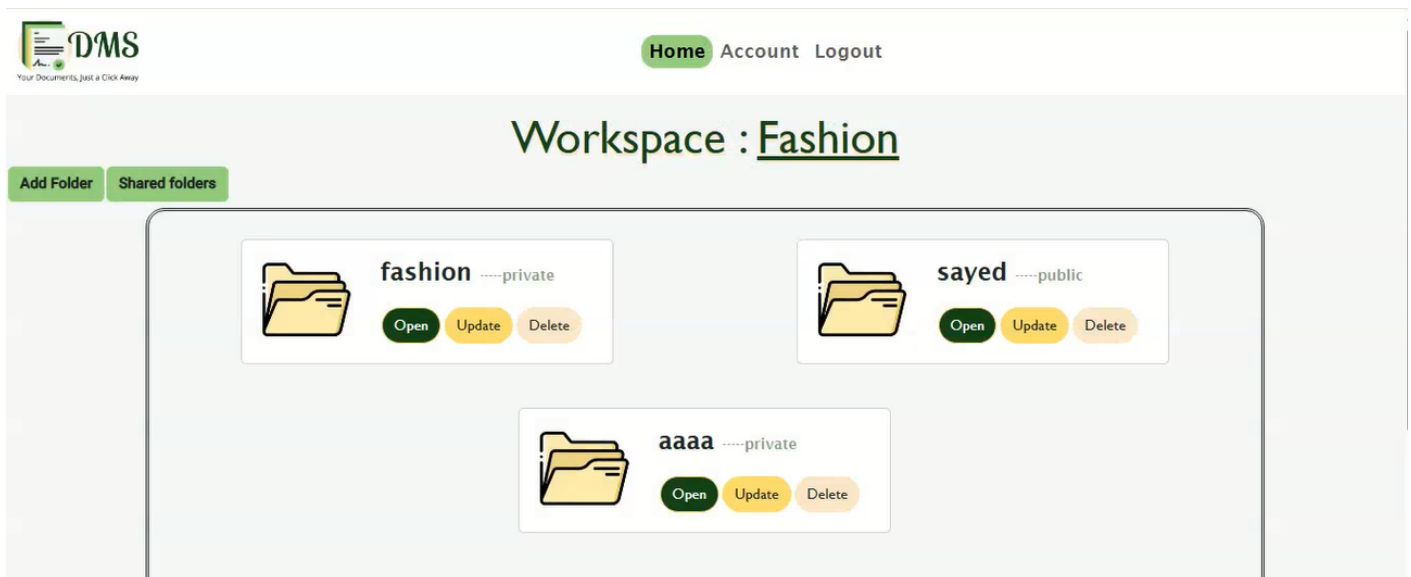





- Delete Folder (using Reactive notification)



- Folder is deleted





- Documents in Fashion Folder



Home Account Logout

Upload

#	Name	Type	Creation Date	Download	Update	Delete
7	pink dress_20240828044204.jpeg	jpeg	Aug 28, 2024	<a href="#">Download</a>	<a href="#">Update</a>	
13	heba.jpg	jpg	Sep 22, 2024	<a href="#">Download</a>	<a href="#">Update</a>	

PreviousPage 1Next

DMS

Activate Windows  
Go to Settings to activate Windows.

HOMEAGENTABOUTLISTINGBLOGCONTACT

- Document Features

Upload


Download

Update

Delete


[Download](#)

[Update](#)

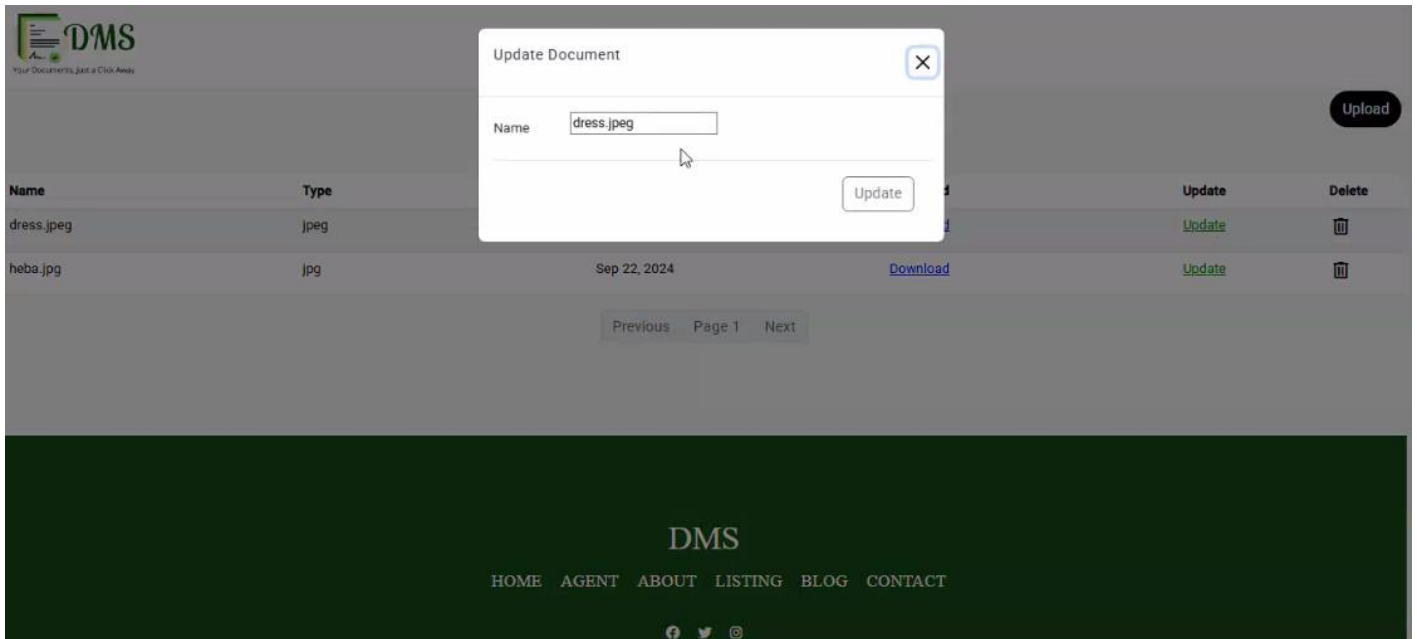


[Download](#)

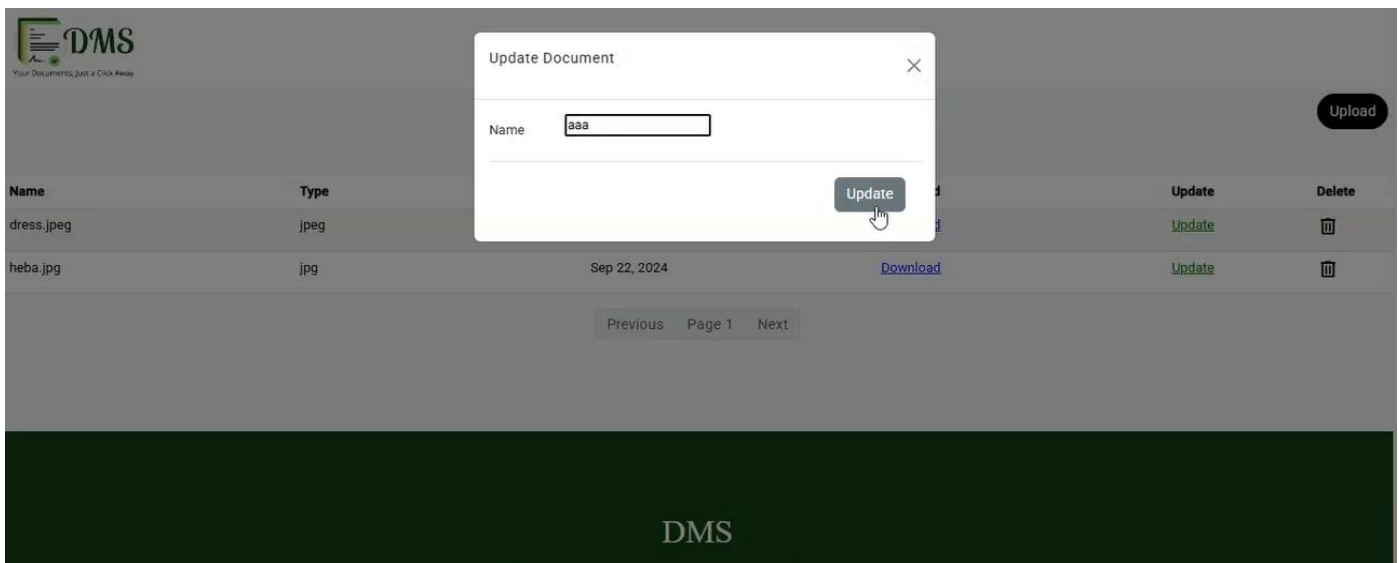
[Update](#)



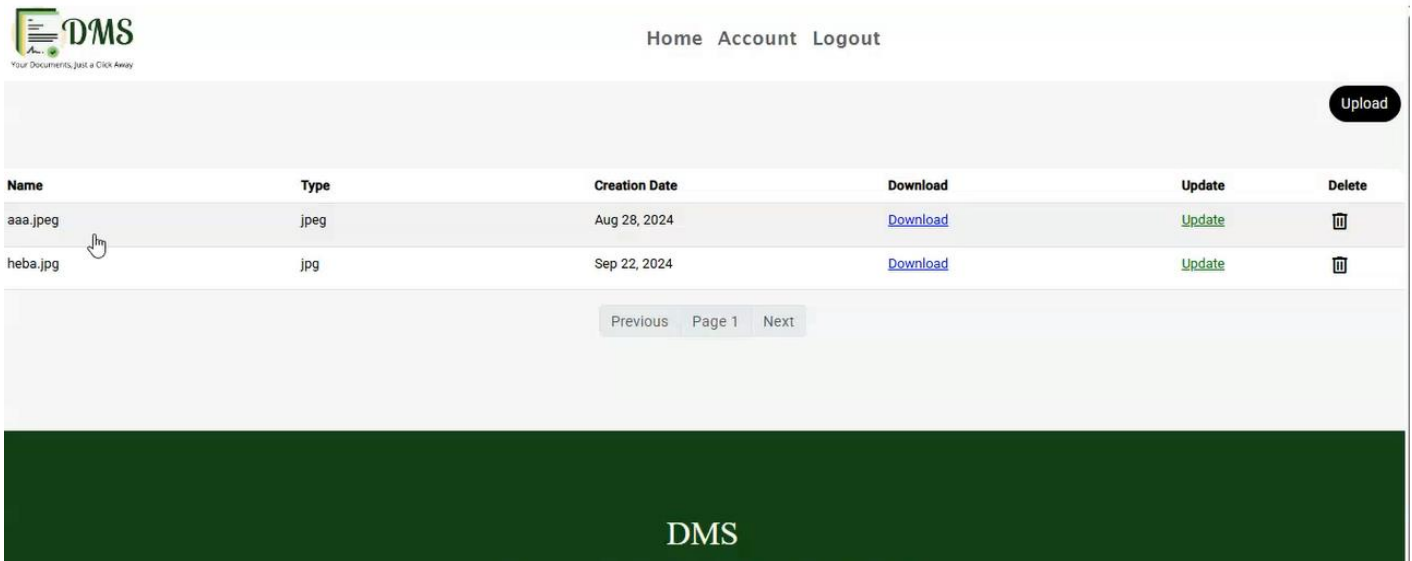
- Click on Update Document



- Change the name of the document



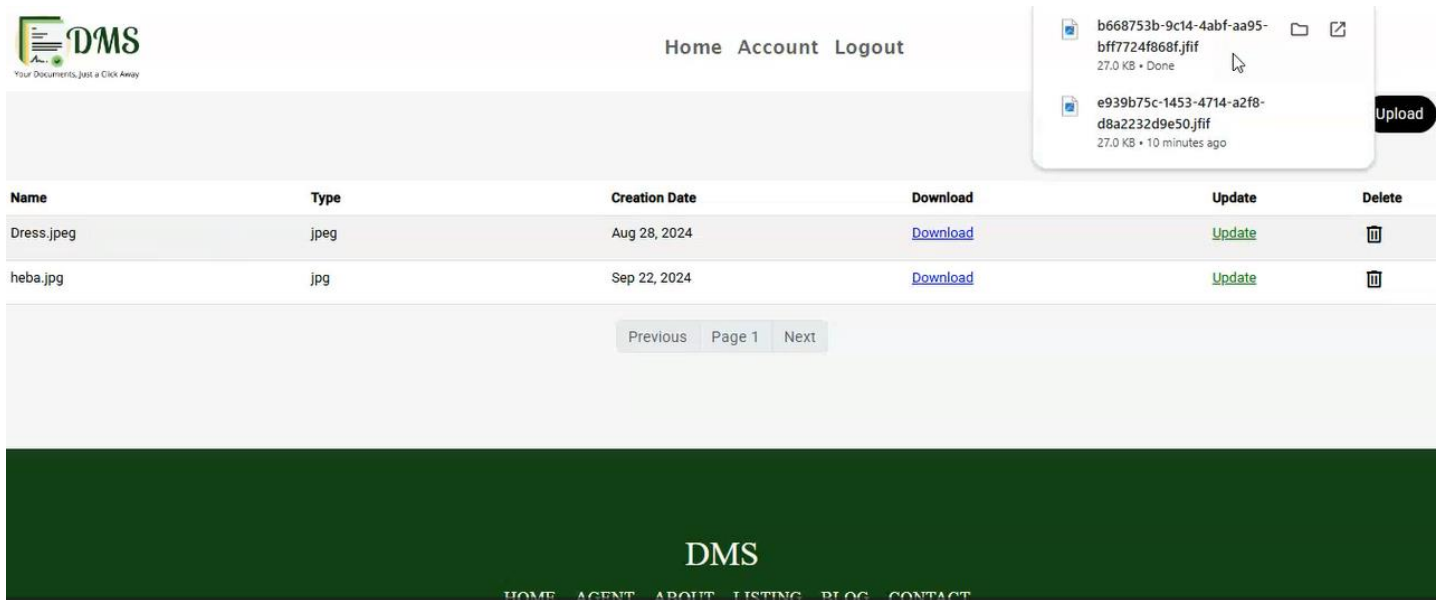
- After updating the name



The screenshot shows the DMS (Document Management System) interface. At the top, there is a navigation bar with links for Home, Account, and Logout. Below the navigation bar, there is a table listing documents. The table has columns for Name, Type, Creation Date, Download, Update, and Delete. Two documents are listed: 'aaa.jpeg' and 'heba.jpg'. The 'heba.jpg' document is highlighted, and a mouse cursor is pointing at it. Below the table, there are pagination controls: 'Previous', 'Page 1', and 'Next'. At the bottom of the page, there is a dark green footer with the text 'DMS'.

Name	Type	Creation Date	Download	Update	Delete
aaa.jpeg	jpeg	Aug 28, 2024	<a href="#">Download</a>	<a href="#">Update</a>	<a href="#">Delete</a>
heba.jpg	jpg	Sep 22, 2024	<a href="#">Download</a>	<a href="#">Update</a>	<a href="#">Delete</a>

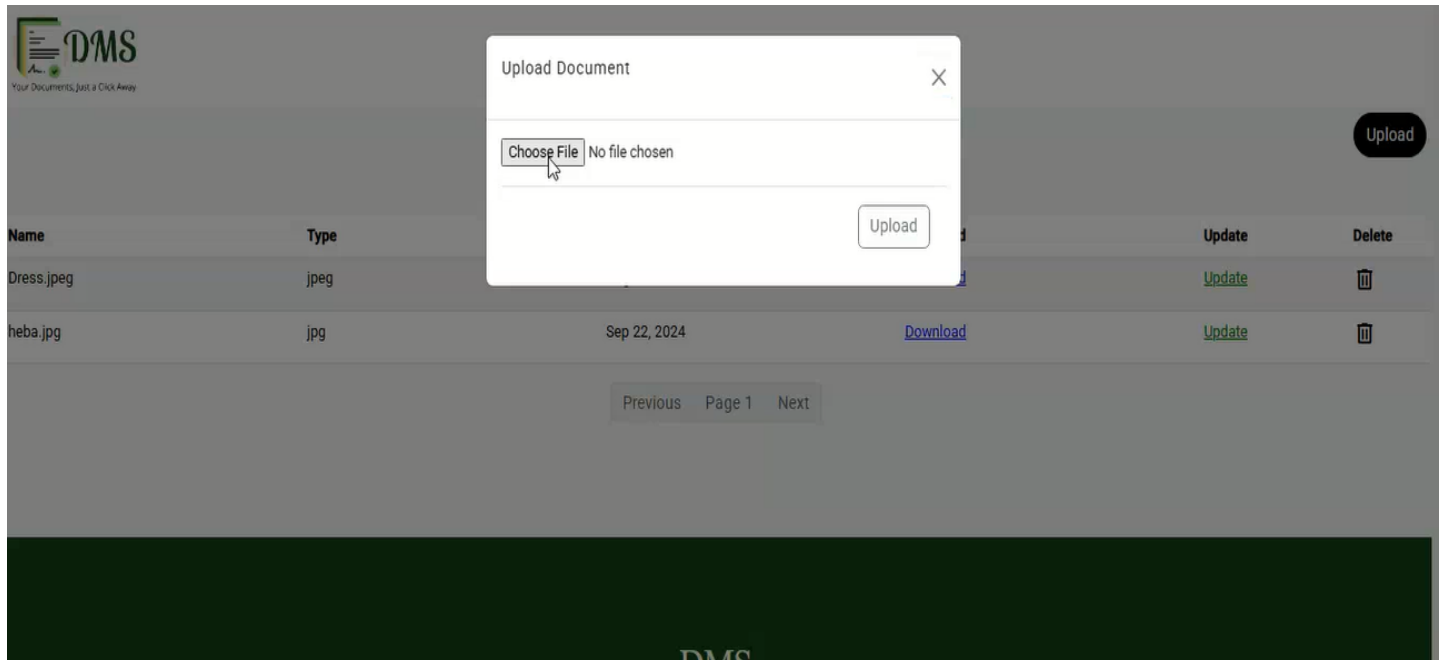
- After clicking on download document



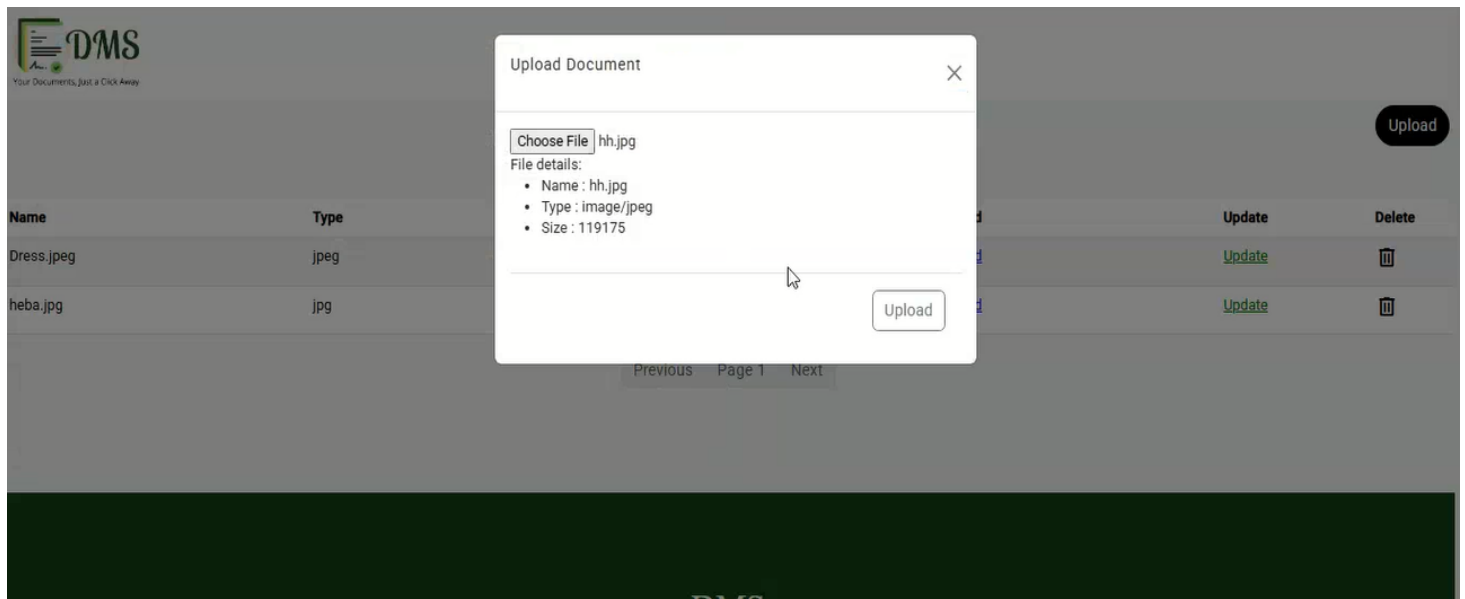
The screenshot shows the DMS interface after clicking on the download button. A download dialog box is open, showing two files: 'b668753b-9c14-4abf-aa95-bff7724f868f.jfif' and 'e939b75c-1453-4714-a2f8-d8a2232d9e50.jfif'. Both files are 27.0 KB and were downloaded 10 minutes ago. The dialog box has a 'Done' button and a 'Cancel' button. The background shows the same table as the previous screenshot, but the 'heba.jpg' document is no longer highlighted. The footer of the page now includes links for HOME, AGENT, ABOUT, LISTING, BLOG, and CONTACT.

Name	Type	Creation Date	Download	Update	Delete
Dress.jpeg	jpeg	Aug 28, 2024	<a href="#">Download</a>	<a href="#">Update</a>	<a href="#">Delete</a>
heba.jpg	jpg	Sep 22, 2024	<a href="#">Download</a>	<a href="#">Update</a>	<a href="#">Delete</a>

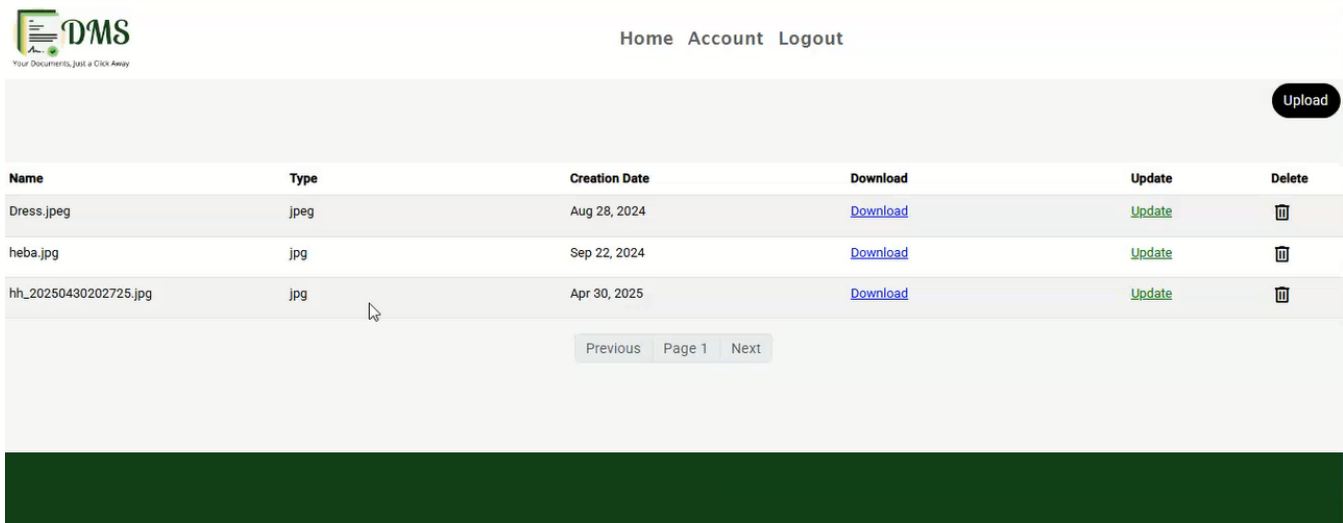
- Upload Document



- Choosing file to upload



- After uploading file

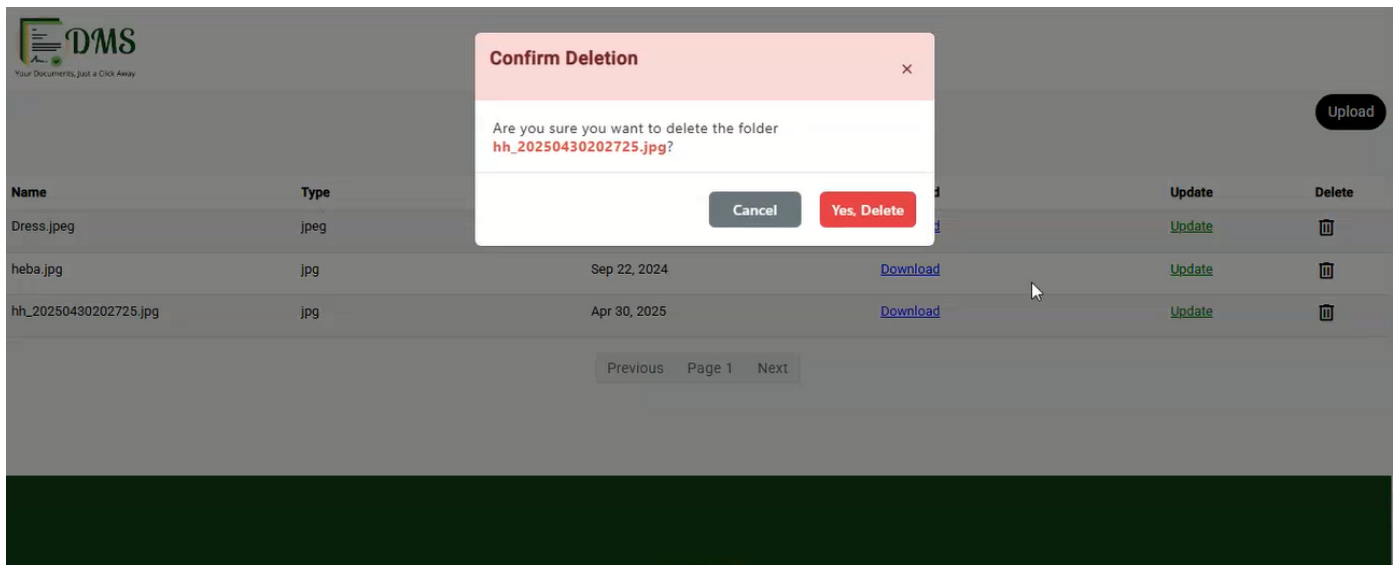


The screenshot shows the DMS (Document Management System) interface. At the top left is the DMS logo with the tagline "Your Documents, Just a Click Away". To the right are links for "Home", "Account", and "Logout". A dark "Upload" button is in the top right corner. Below these is a table listing uploaded files:

Name	Type	Creation Date	Download	Update	Delete
Dress.jpeg	jpeg	Aug 28, 2024	<a href="#">Download</a>	<a href="#">Update</a>	
heba.jpg	jpg	Sep 22, 2024	<a href="#">Download</a>	<a href="#">Update</a>	
hh_20250430202725.jpg	jpg	Apr 30, 2025	<a href="#">Download</a>	<a href="#">Update</a>	

Below the table is a pagination bar with "Previous", "Page 1", and "Next" buttons. A dark green footer bar is at the bottom.

- Deleting the file



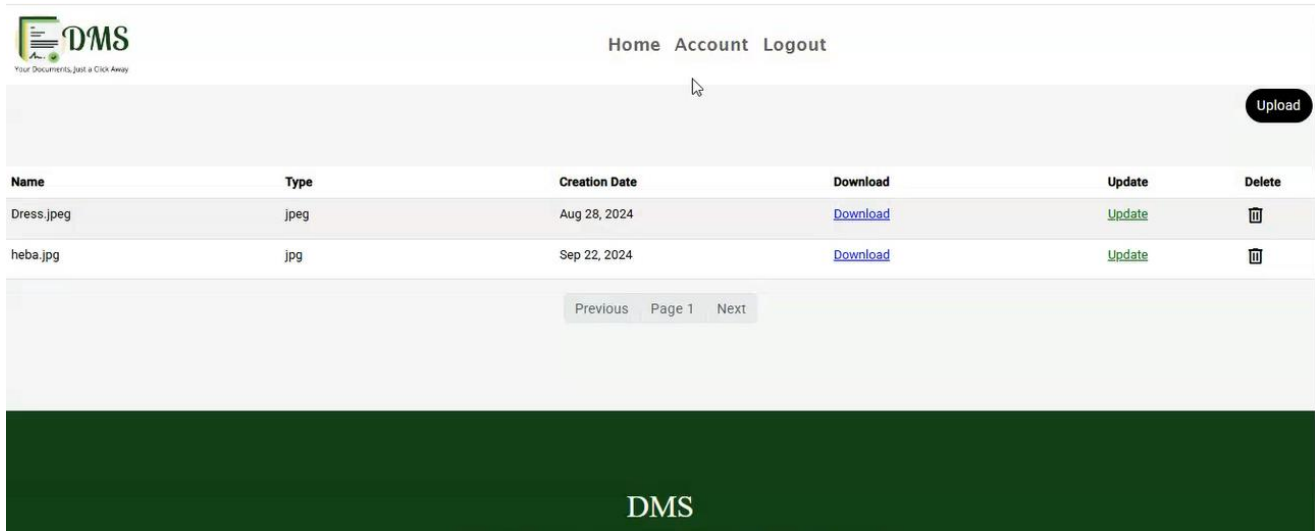
This screenshot shows the same DMS interface as before, but with a "Confirm Deletion" dialog box open in the center. The dialog box has a red header and contains the following text:

**Confirm Deletion**

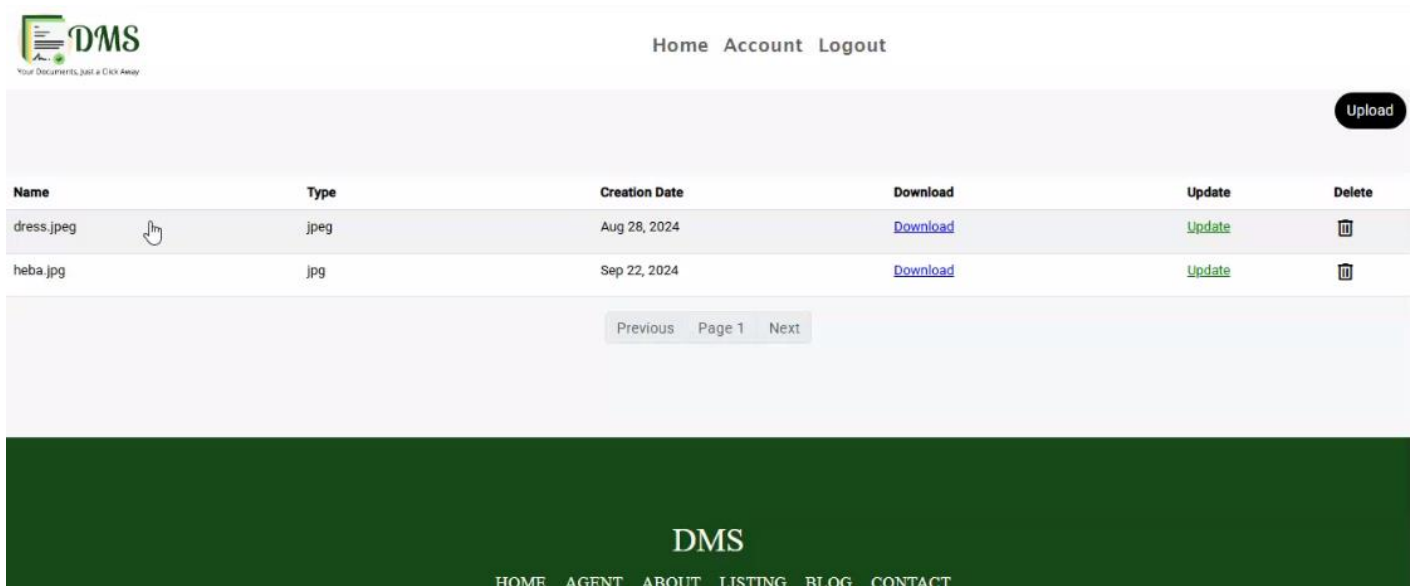
Are you sure you want to delete the folder  
**hh\_20250430202725.jpg?**

At the bottom of the dialog are two buttons: "Cancel" and "Yes, Delete". The background interface is dimmed, showing the same file list and pagination controls.

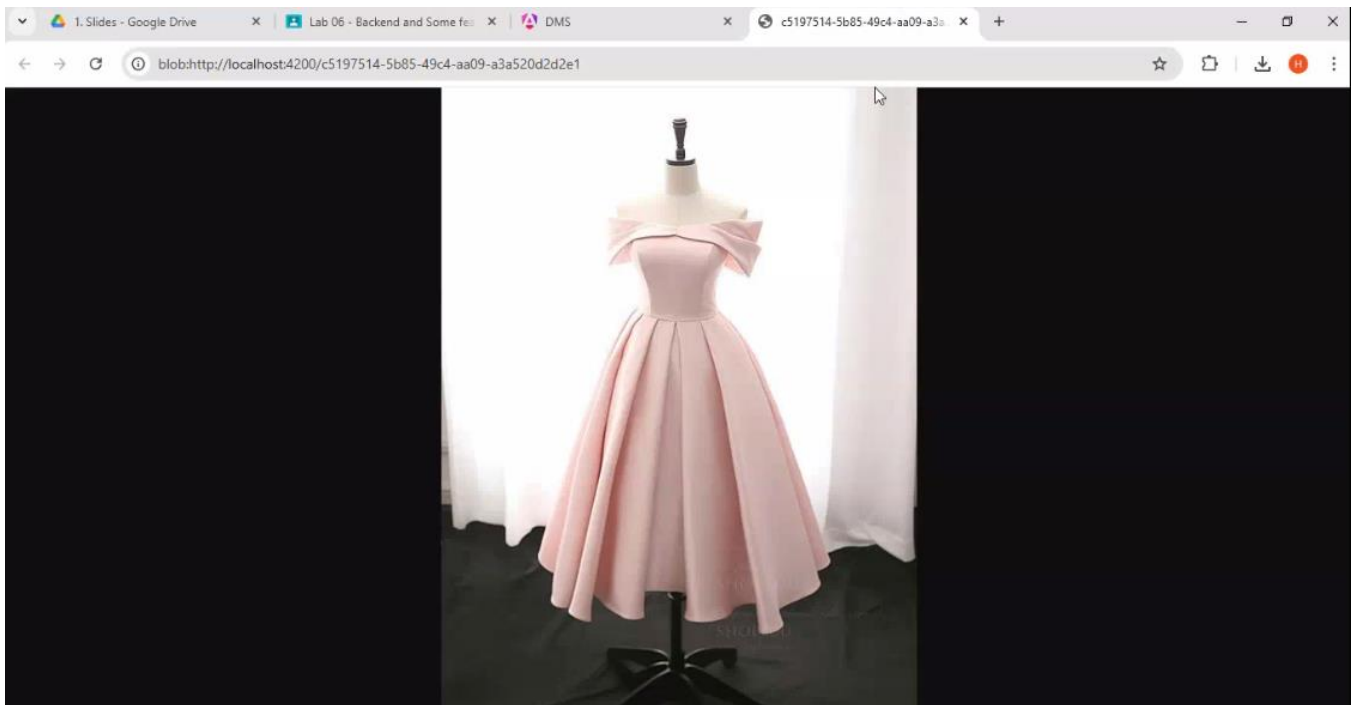
- After deleting the file



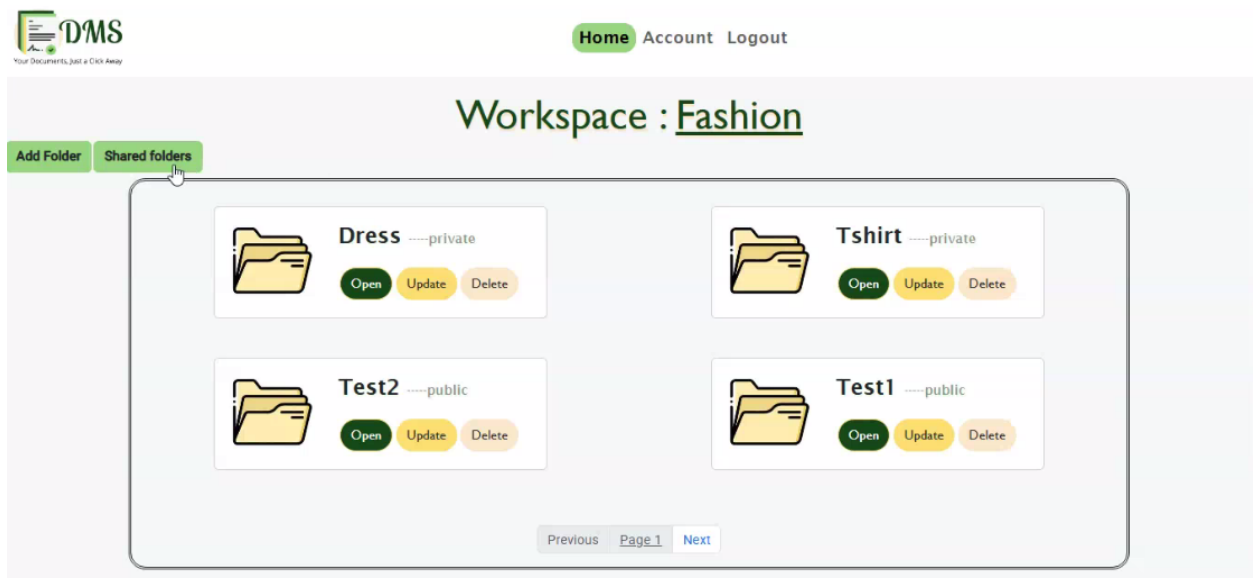
- Click on dress image to preview



- After clicking

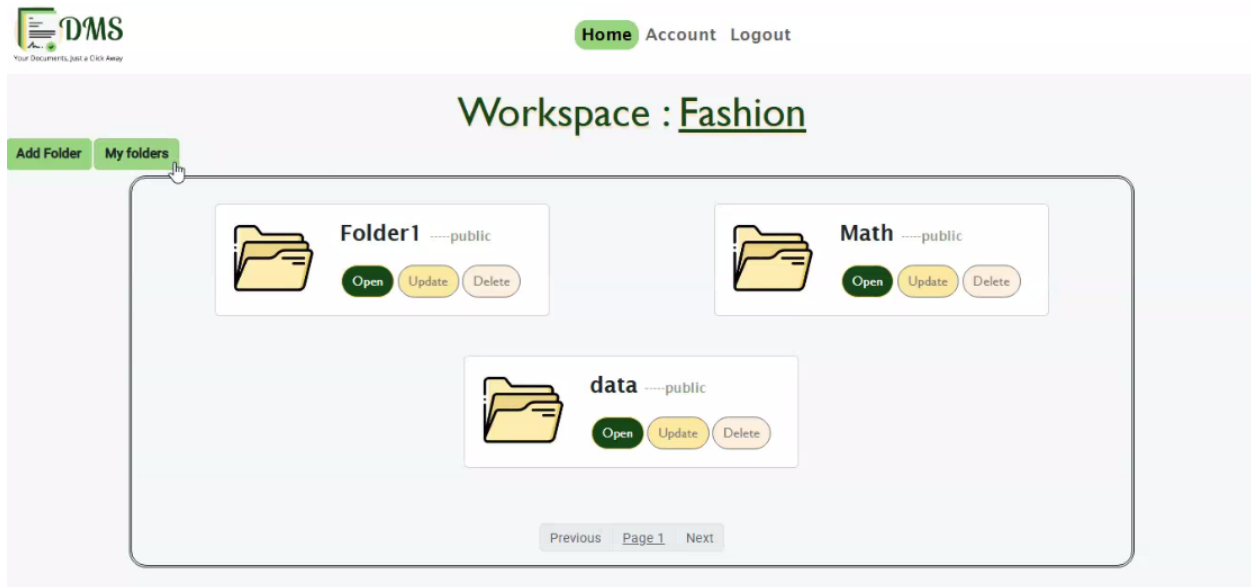


- Click on Shared Folders tab

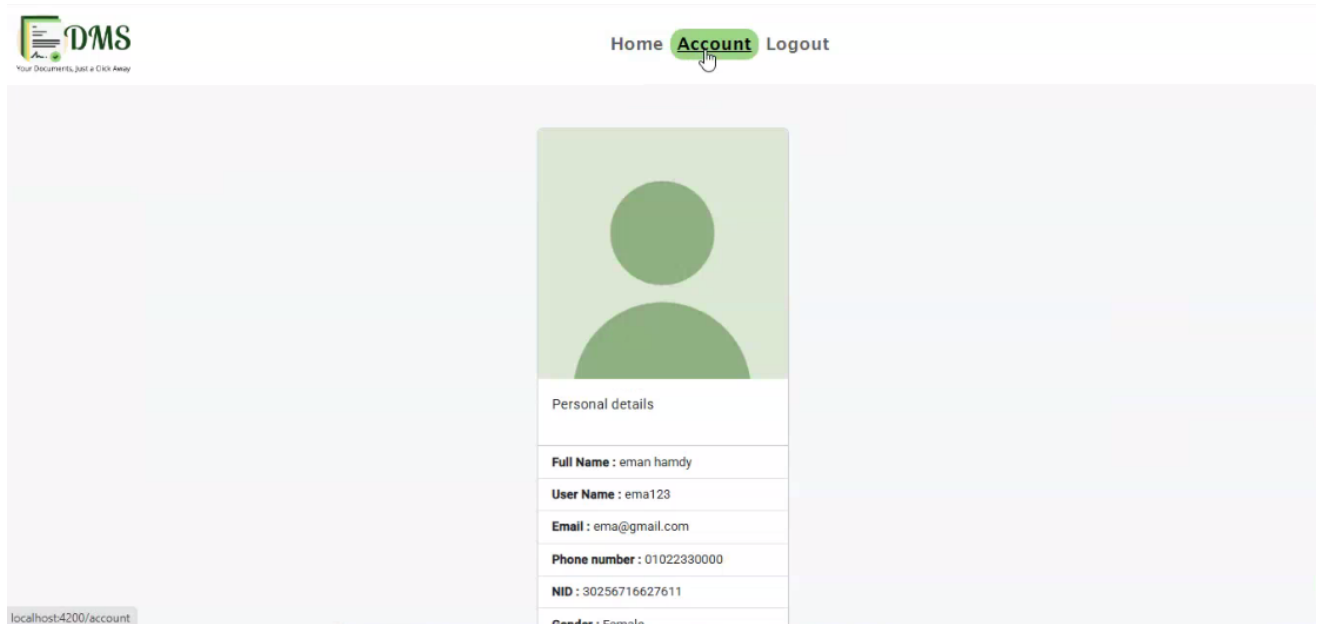




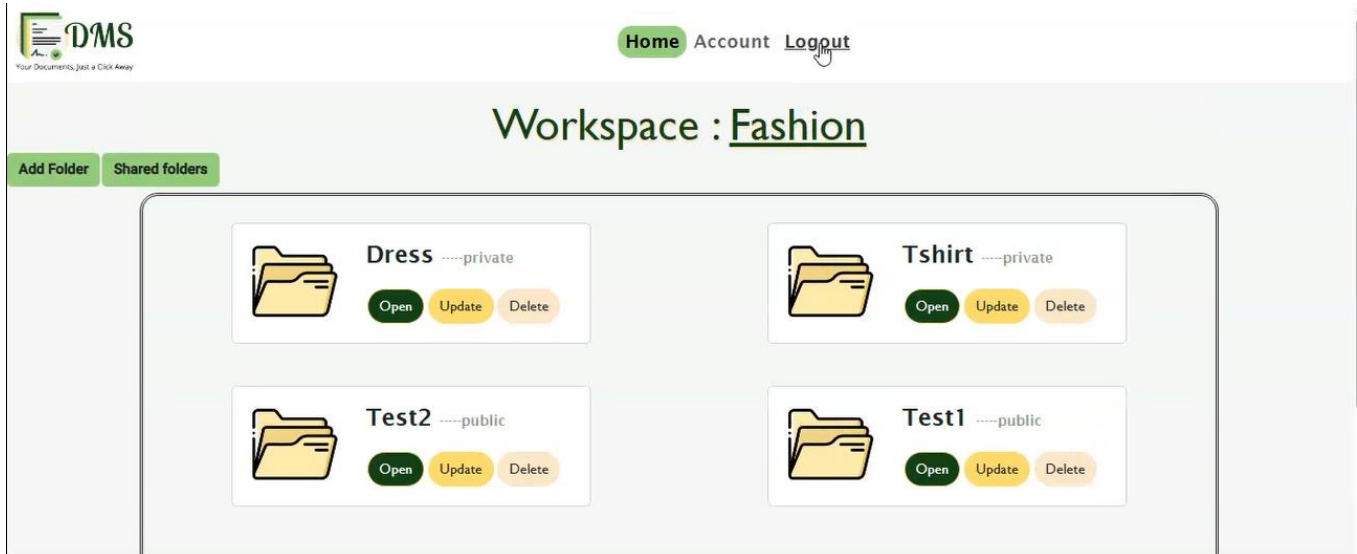
- After clicking on Shared Folders tab



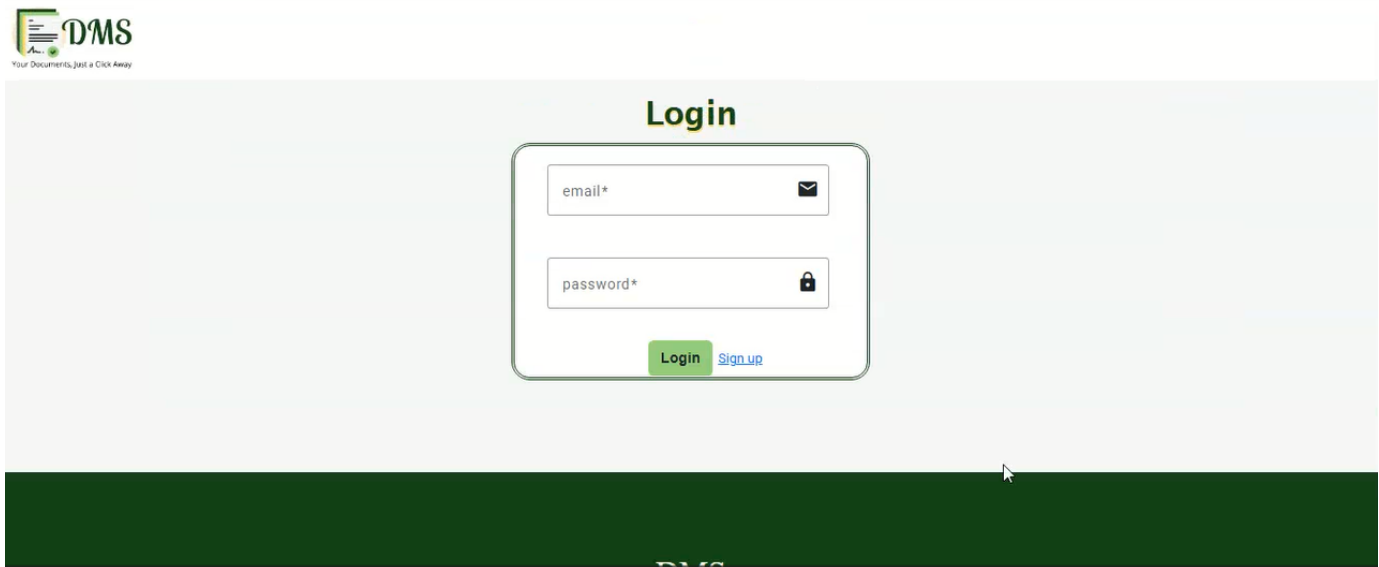
- Account Screen



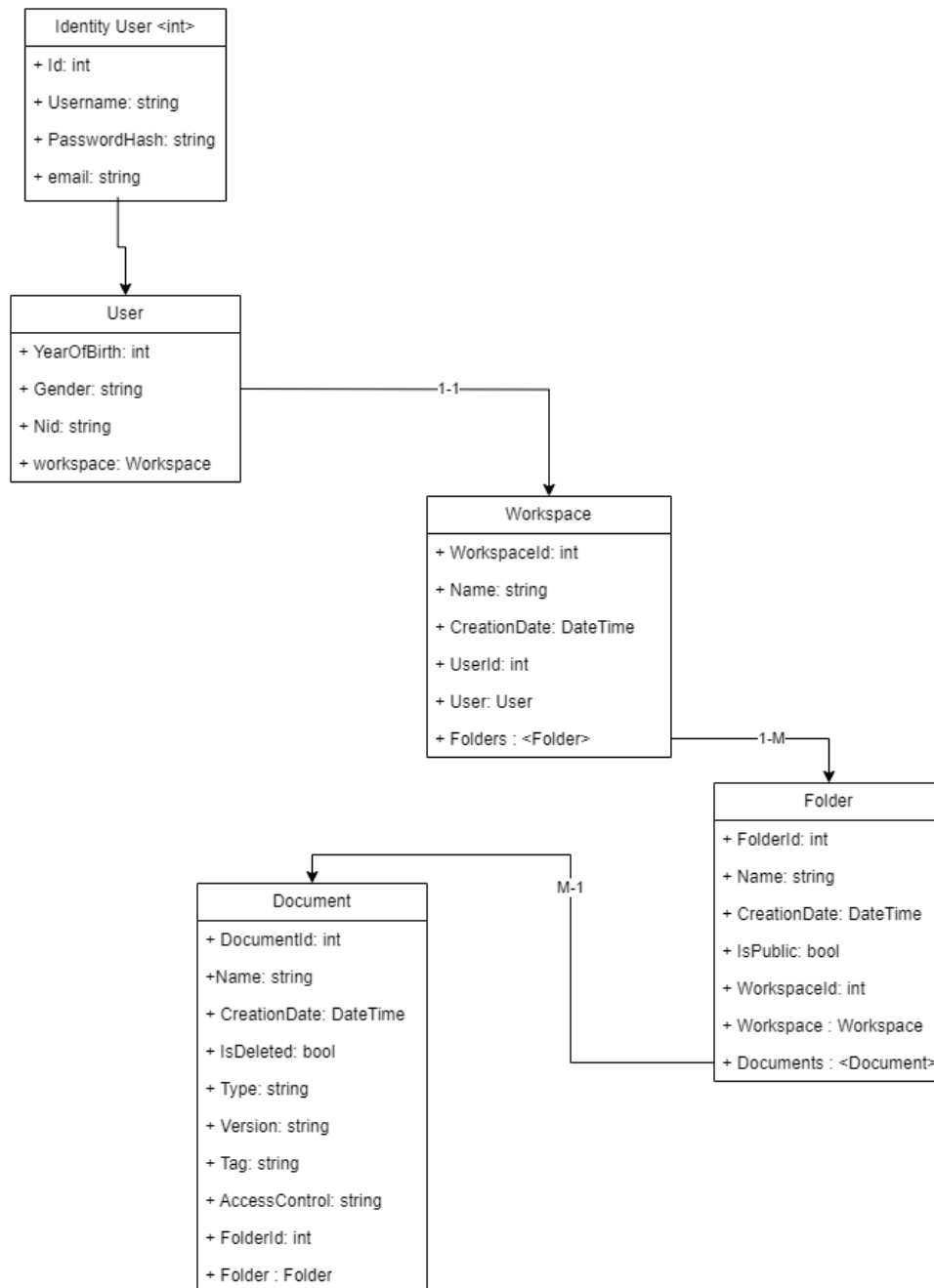
- Logging Out



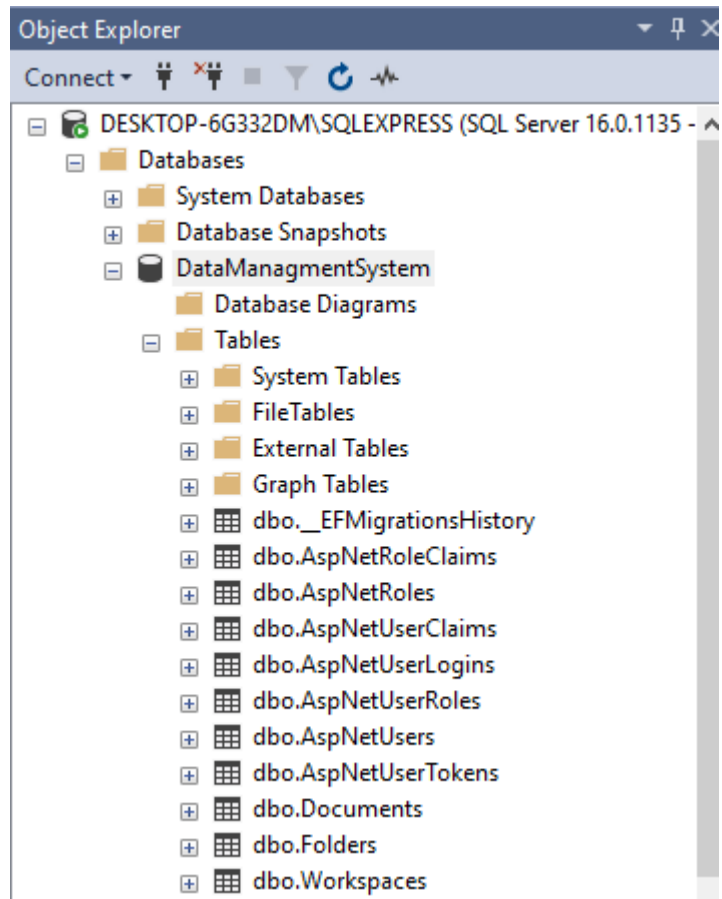
- After logging out, it returns to login screen



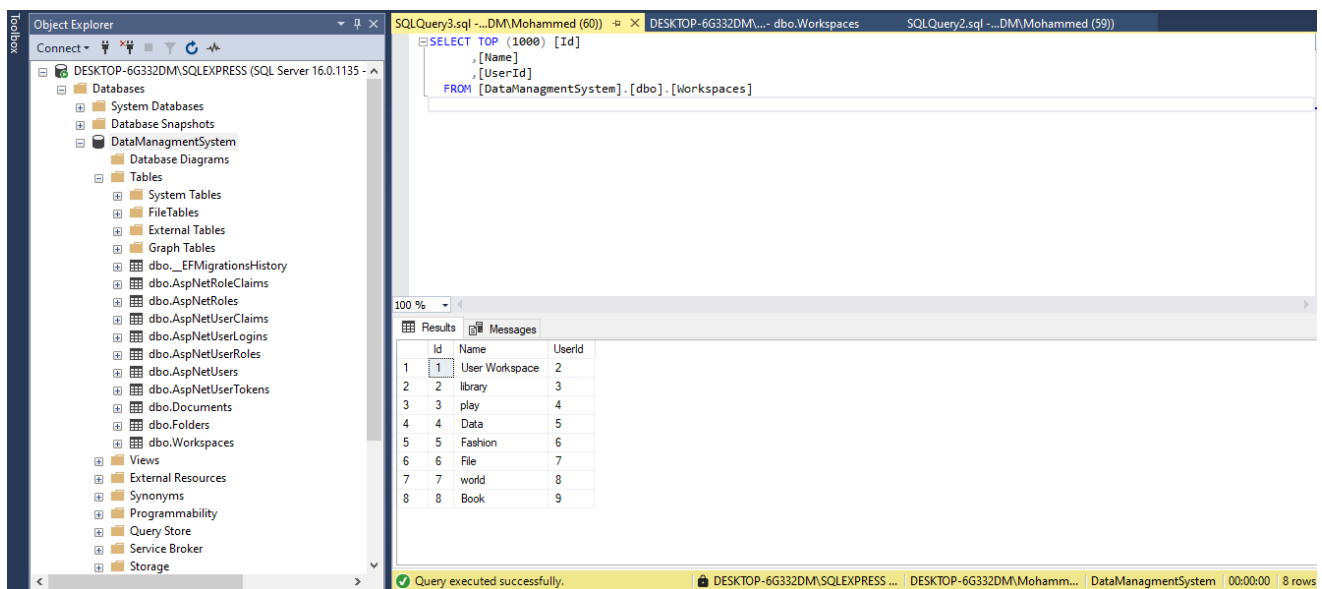
- Class diagram of project



- Tables of database using SQL



- Workspace table



- Folders table

Object Explorer: DESKTOP-6G332DM\SQLEXPRESS (SQL Server 16.0.1135)

SQLQuery2.sql - ...DM\Mohammed (59) | SQLQuery1.sql - ...DM\Mohammed (55)

```
SELECT TOP (1000) [Id]
, [Name]
, [IsPublic]
, [WorkspaceId]
, [IsDeleted]
FROM [DataManagementSystem].[dbo].[Folders]
```

Id	Name	IsPublic	WorkspaceId	IsDeleted
1	Folder1	1	1	0
2	Folder2	0	1	0
3	pokemon	0	3	1
4	bal	0	3	0
5	Math	1	2	0
6	Math	0	1	0
7	data	0	2	0
8	skirts	0	5	1
9	Dress	0	5	0
10	picture	0	6	0
11	data	1	6	0

Query executed successfully. | DESKTOP-6G332DM\SQLEXPRESS ... | DESKTOP-6G332DM\Mohamm... | DataManagmentSystem | 00:00:00 | 25 rows

- Users table

Object Explorer: DESKTOP-6G332DM\SQLEXPRESS (SQL Server 16.0.1135)

SQLQuery4.sql - ...DM\Mohammed (57) | SQLQuery3.sql - ...DM\Mohammed (60) | DESKTOP-6G332DM\SQLEXPRESS -> dbo.Workspaces

```
SELECT TOP (1000) [Id]
, [NID]
, [FullName]
, [Gender]
, [UserName]
, [NormalizedUserName]
, [Email]
, [NormalizedEmail]
, [EmailConfirmed]
, [PasswordHash]
, [SecurityStamp]
, [ConcurrencyStamp]
, [PhoneNumber]
, [PhoneNumberConfirmed]
, [TwoFactorEnabled]
, [LockoutEnd]
, [LockoutEnabled]
FROM [DataManagementSystem].[dbo].[Users]
```

Id	NID	FullName	Gender	UserName	NormalizedUserName	Email	NormalizedEmail	EmailConfirmed	PasswordHash
1	1234567890987	Admin User	Female	admin	ADMIN	admin@example.com	ADMIN@EXAMPLE.COM	0	AQAAAAI/
2	5432123467890	Regular User	User	regular.user	REGULAR.USER	user@example.com	USER@EXAMPLE.COM	0	AQAAAAI/
3	30298116450091	Heba Elsayed Mohamed	Female	heba123	HEBA123	heba@gmail.com	HEBA@GMAIL.COM	0	AQAAAAI/
4	308276615416277	ahmed	Male	aa11	AA11	ahmeds@gmail.com	AHMEDS@GMAIL.COM	0	AQAAAAI/
5	39802761567822	mohamed elsayed ali	Male	mmm1	MMM1	memo@gmail.com	MEMO@GMAIL.COM	0	AQAAAAI/
6	30256716627611	eman hamdy	Female	ema123	EMA123	ema@gmail.com	EMA@GMAIL.COM	0	AQAAAAI/
7	20902887651622	ali ahmed hassan	Male	ali11	ALI11	ali@gmail.com	ALI@GMAIL.COM	0	AQAAAAI/
8	309082008276152	Elsayed Mohamed	Male	sma	SMA	sma@gmail.com	SMA@GMAIL.COM	0	AQAAAAI/
9	2010222211122	Heba Elsayed	female	boba1	BOBA1	boba@gmail.com	BOBA@GMAIL.COM	0	AQAAAAI/

Query executed successfully. | DESKTOP-6G332DM\SQLEXPRESS ... | DESKTOP-6G332DM\Mohamm... | DataManagmentSystem | 00:00:00 | 9 rows