

Document Management System



Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer
Engineering

B.Tech. CE Semester – VI

Subject: Object Oriented Software Engineering

Project Title:

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CERTIFICATE

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1. Abstract

The project entitled DOCUMENT MANAGEMENT SYSTEM is a form application to create software for managing files by providing a solution for them. The web solution provides facility for manipulating the internal operation of the firm. Document Management System is an efficient, time-saving and easy way to report, view and control the version of a file. It is now an easy task and managing it is much easier. DMS, a suite of programs that automates away most of the drudgery involved in keeping an annotated history of your project and avoiding modification conflicts. Most DMS share the same basic logic. To use one, start by registering a collection of source files — that is, telling your DMS to start archive files describing their change histories. Thereafter, when you want to edit one of these files, you have to check out the file — assert an exclusive lock on it. When you're done, you check in the file, adding your changes to the archive, releasing the lock, and entering a change comment explaining what you did.

2.Introduction

2.1 Brief Introduction

Document Management System is an online document storage management where users can store his/her important data in a structured way and so it is easily accessible from everywhere. A document management system (DMS) is a system used to track, manage and store documents and reduce paper. DMS is also a better and secure way to manage all the files. You can add files of type pdf, doc and jpeg in this DMS. Users can also make any file as a favorite and sharable. It can also download the file from DMS as local file in a device.

2.2 Tools/Technologies used

Technologies:

- 1) .Net Framework
- 2) Windows Form
- 3) SQL Server Database

Tools:

Visual Studio

3. Software Requirement Specifications

3.1 Types of User

1. Admin
2. End-User

3.2 System Function Requirement

R.1 Admin Functionalities

R.1.1 Delete User Account

Description: Using this functionality admin is able to delete the user by user id.

Input: User Id of user whose account will be deleted

R.1.2 View User Account

Description: Using this functionality admin is able to view the user.

Input: User Id of user whose account will be displayed.

Output: Display user information.

R.1.3 Update User Account

Description: Using this functionality admin can update the user detail.

Input: User Id of the user whose account will be displayed.

Output: Display user information.

R.2 User functionalities

R.2.1 Create File

Description: Users can create files and can give an appropriate name.

Input: Filename

Output: File created message.

R.2.2 Create Folder

Description: User can create folder to group the related files and give appropriate name.

Input: Folder name

Output: Folder created message.

R.2.3 Sharing Files

Description: User can share files to other user/organization.

Input: file name

Output: Display different option for sharing.

R.2.4 Delete Files

Description: User can delete files.

Input: File name

Output: File deleted message

R.2.5 Add personal/Business data

Description: User can add personal/business data.

Input: User selection

Output: Data Stored successfully message.

R.2.6 Purchase plan

Description: User can purchase plan for storing large number of files.

Input: User selection

Output: Redirection to Checkout Page.

R.2.8 Calculate Estimated Cost

Description: User can estimate cost for his/her required storage.

Input: No of user

Output: Storage per user.

R.2.9 Search File

Description: User can directly search by filename or folder name regardless of case of name and based on the entered character suggestion will be provided by system.

Input: File name

Output: Display Searched File.

R.2.10 Starred File

Description: If user want some of file as a favorite file among all then he can click on favourite icon places on top-right corner of file or folder thumbnail. So if user click it then the placed icon will be yellow and will resides in favorite section.

Input: User selection

Output: User can mark any file as starred file and star will reflect on top of file icon

R.2.11 Download File and Folder

Description: This functionality can help user to download file or folder from DMS on local space by just selecting download option.

Input: User selection

Output: File/Folder Download successfully message.

Common Functionalities (User and Admin):

R.3 User Authentication-Sign Up

Input: User Details

Output: Data Stored Successfully

Description: User Enters Details Like User Id, Name, Password, Phone Number, E-Mail As Per Type Of User.

R.4 User Login

Input: User Credentials

Output: User Logged In Account/Error Message

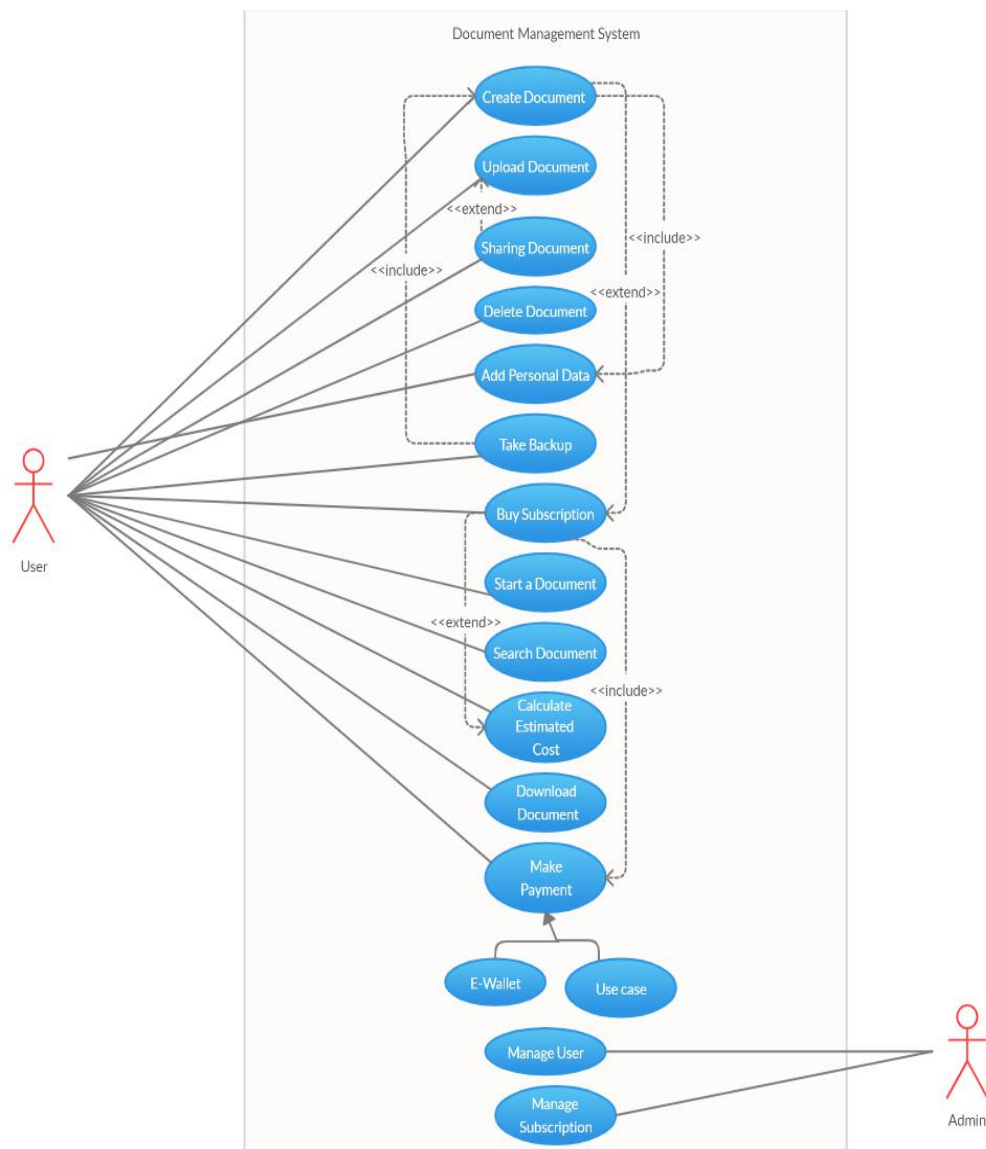
Description: User Enters The Username/Email And Password And Checks Into The Web Application By Validating In Database.

R.5 Log Out

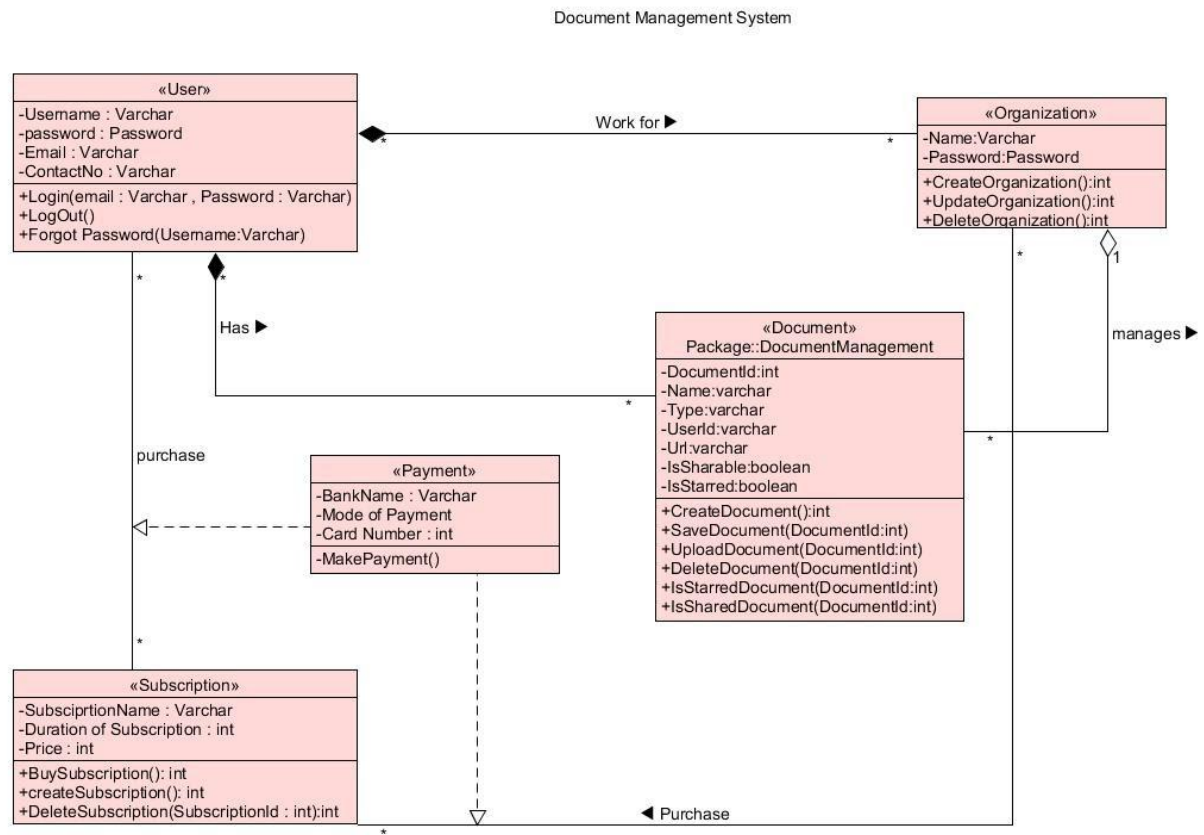
Description: User Logs Out Of The Website.

4.Designs

Usecase Diagram

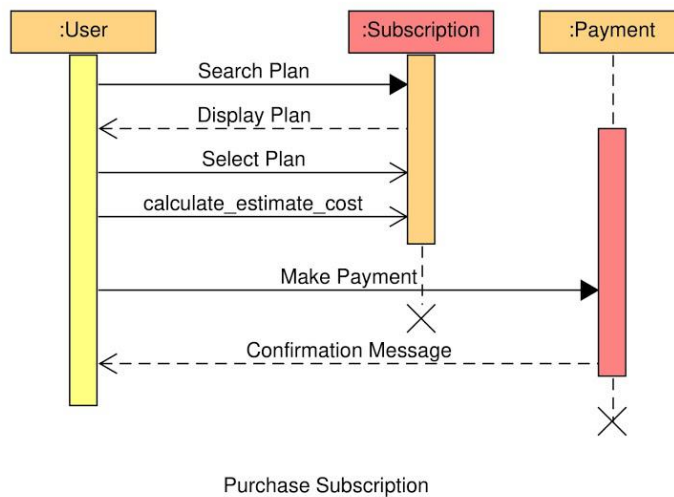
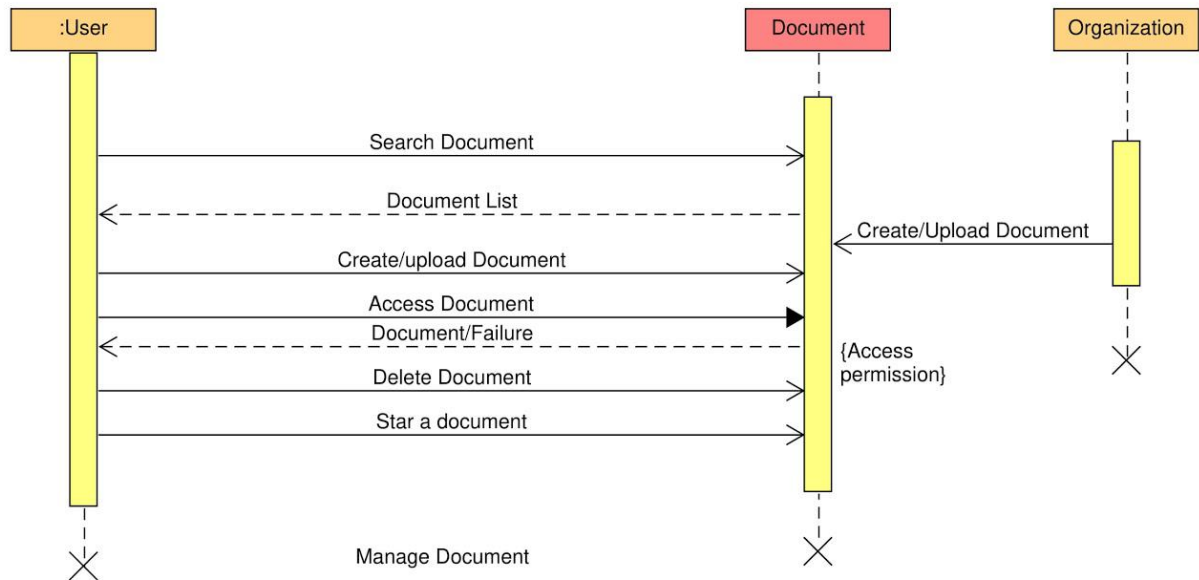


Class diagrams



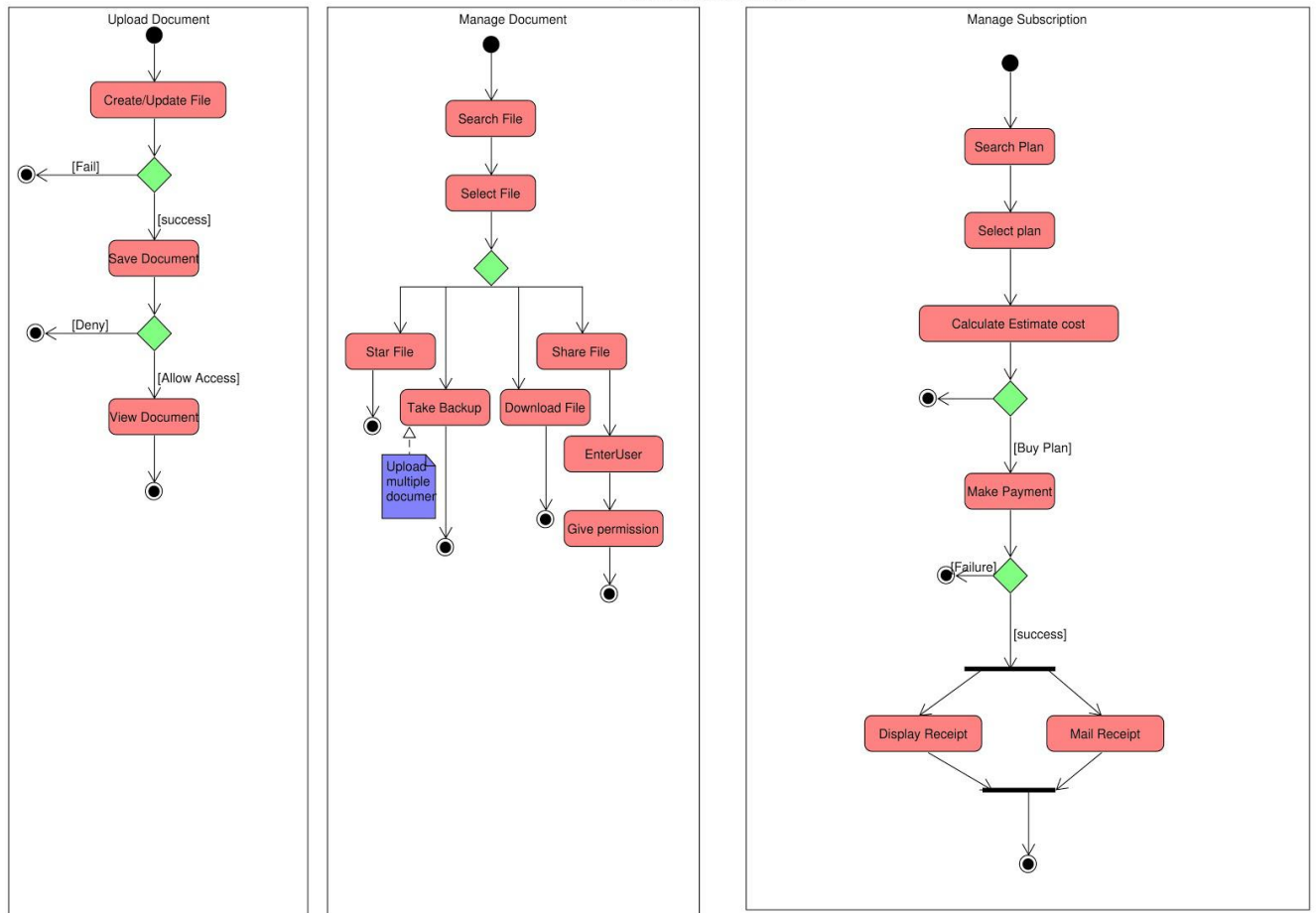
Sequence diagrams

Document Management System

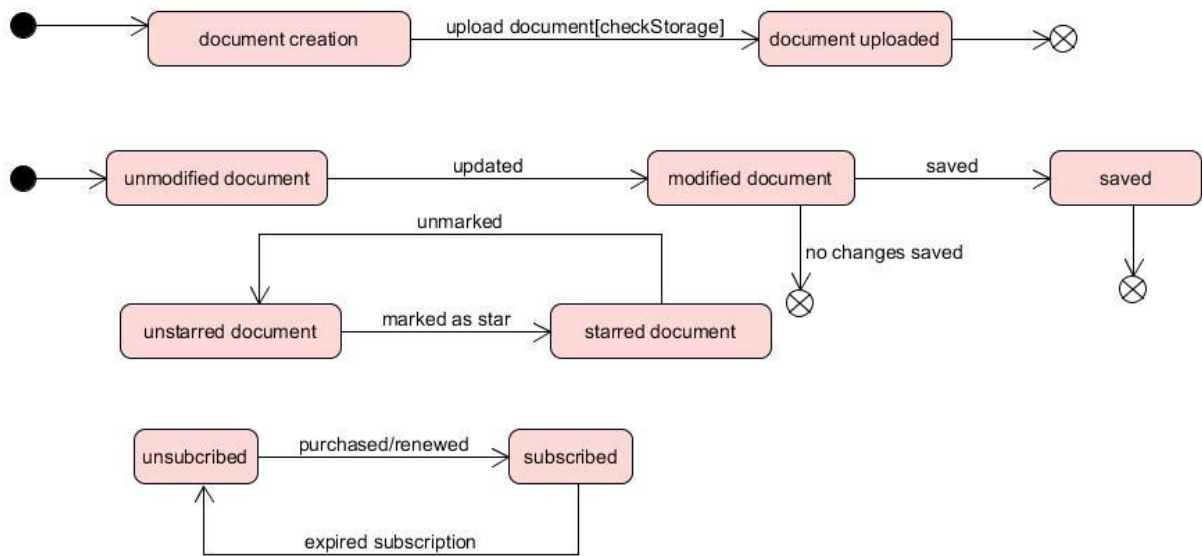


Activity diagrams

Document Management System

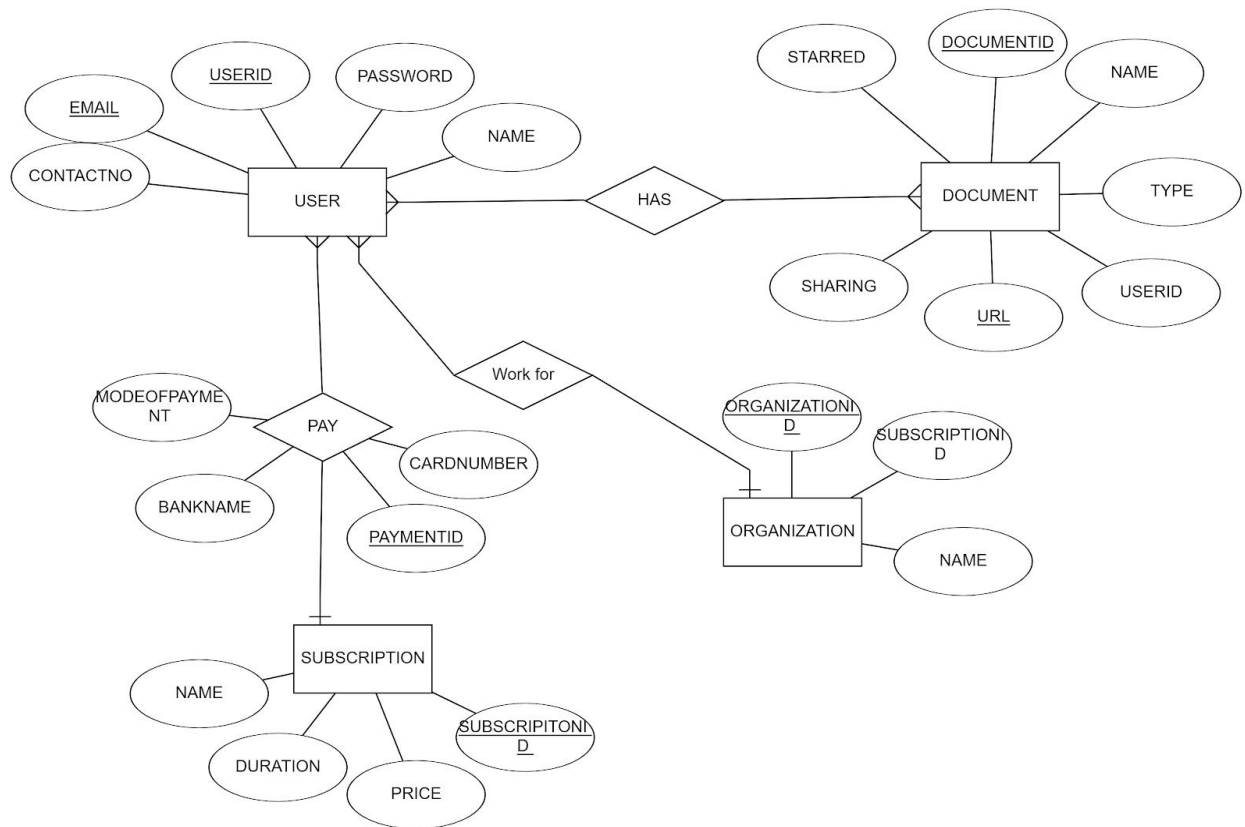


State diagrams



Document Management System

E-R Diagram



ER DIAGRAM FOR DOCUMENT MANAGEMENT SYSTEM

Datadictionary

Database Schema for Document Management System

USER							
SR.NO	NAME	DATA TYPE	WIDTH	REQUIRED	UNIQUE	PK/FK	REFERENCE TABLE DESCRIPTION
1	USERID	NUMERIC	20	YES	YES	PK	
2	PASSWORD	VARCHAR	20	YES	NO		
3	NAME	VARCHAR	20	YES	NO		
4	EMAIL	VARCHAR	20		YES		
5	CONTACT NO	VARCHAR	20		YES		

DOCUMENT							
SR.NO	NAME	DATA TYPE	WIDTH	REQUIRED	UNIQUE	PK/FK	REFERENCE TABLE DESCRIPTION
1	DOCUMENTID	NUMERIC	20	YES	YES	PK	
2	NAME	VARCHAR	20	YES	NO		
3	TYPE	VARCHAR	20		NO		
4	USERID	NUMERIC	20		YES	FK	PK OF USER TABLE
5	URL	VARCHAR	20	YES	YES		
6	SHARING	BOOLEAN		YES			
7	STARRED	VARCHAR	20	NO			

PAYMENT							
SR.NO	NAME	DATA TYPE	WIDTH	REQUIRED	UNIQUE	PK/FK	REFERENCE TABLE DESCRIPTION
1	PAYMENTID	NUMERIC	20	YES	YES	PK	
2	BANK NAME	VARCHAR	20	NO	NO		
3	MODE OF PAYMENT	VARCHAR	20		NO		
4	CARD NUMBER	VARCHAR	20		YES		
5	USERID/ ORGANIZATIONID	NUMERIC	20	YES		FK	PK OF USER
6	SUBSCRIPTIONID	NUMERIC	20	YES		FK	PK OF SUBSCRIPTION

SUBSCRIPTION							
SR.NO	NAME	DATA TYPE	WIDTH	REQUIRED	UNIQUE	PK/FK	REFERENCE TABLE DESCRIPTION
1	SUBSCRIPTIONID	NUMERIC	20	YES	YES	PK	PK OF SUBSCRIPTION
2	NAME	VARCHAR	20	YES	NO		
3	DURATION	VARCHAR	20		NO		
4	PRICE	NUMBER	20		NO		

ORGANIZATION							
SR.NO	NAME	DATA TYPE	WIDTH	REQUIRED	UNIQUE	PK/FK	REFERENCE TABLE DESCRIPTION
1	ORGANIZATIONID	NUMERIC	20	YES	YES	PK	PK OF ORGANIZATION
2	SUBSCRIPTIONID	NUMERIC	20	YES	NO	FK	PK OF SUBSCRIPTION
3	NAME	VARCHAR	20		NO		

USER_ORGANIZATION							
SR.NO	NAME	DATA TYPE	WIDTH	REQUIRED	UNIQUE	PK/FK	REFERENCE TABLE DESCRIPTION
1	ORGANIZATIONID	NUMERIC	20	YES	NO	PK	PK OF ORGANISATION
2	USERID	NUMERIC	15	YES	YES	PK	PK OF USER

9.Implementation Details

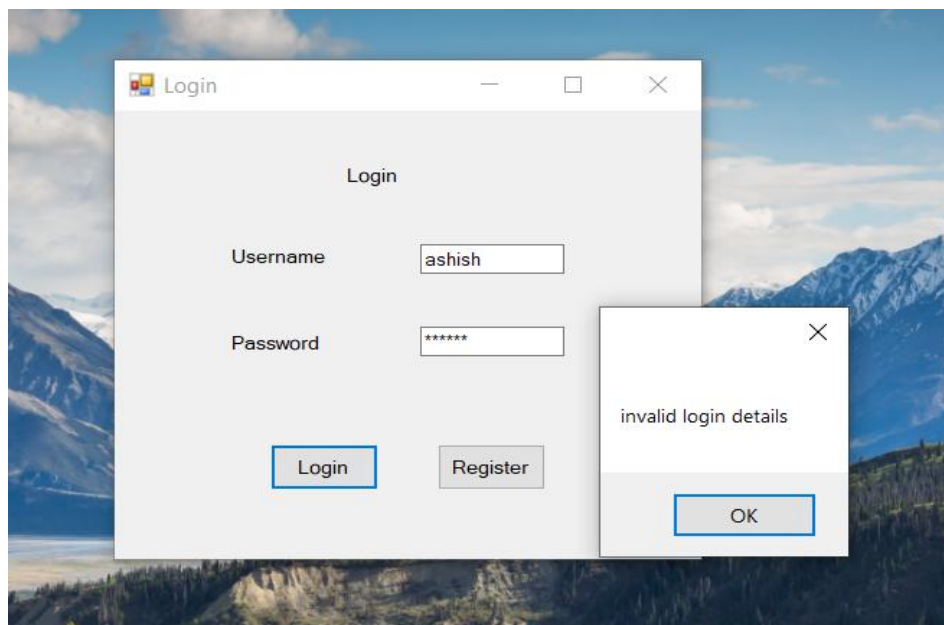
Modules

- User Login Register Module:
This module is verifying the user by checking the credential and also let them register if not already.
- View File Module:
This form allows the user to view all the document which is uploaded by the user. Users can mark any document as sharable and as a favorite in this form.
- Download File Module :
Download File allows the user to download the selected file.
- Search Document Module:
Search module provides a flexible search facility. It allows the user to search any document based on name or type. At the time of the search, the user can download a particular document.
- Purchase Subscription Module:
Subscription Module allows the users to purchase the subscription as per his/her requirements
- Admin Module:
This module allows the admin to manage users by viewing and deletion operations. It also allows the admin to create, view, update and delete the subscriptions.
- Calculate Estimate Cost:
Users can calculate the estimated cost as per his/her requirements of uploading file.

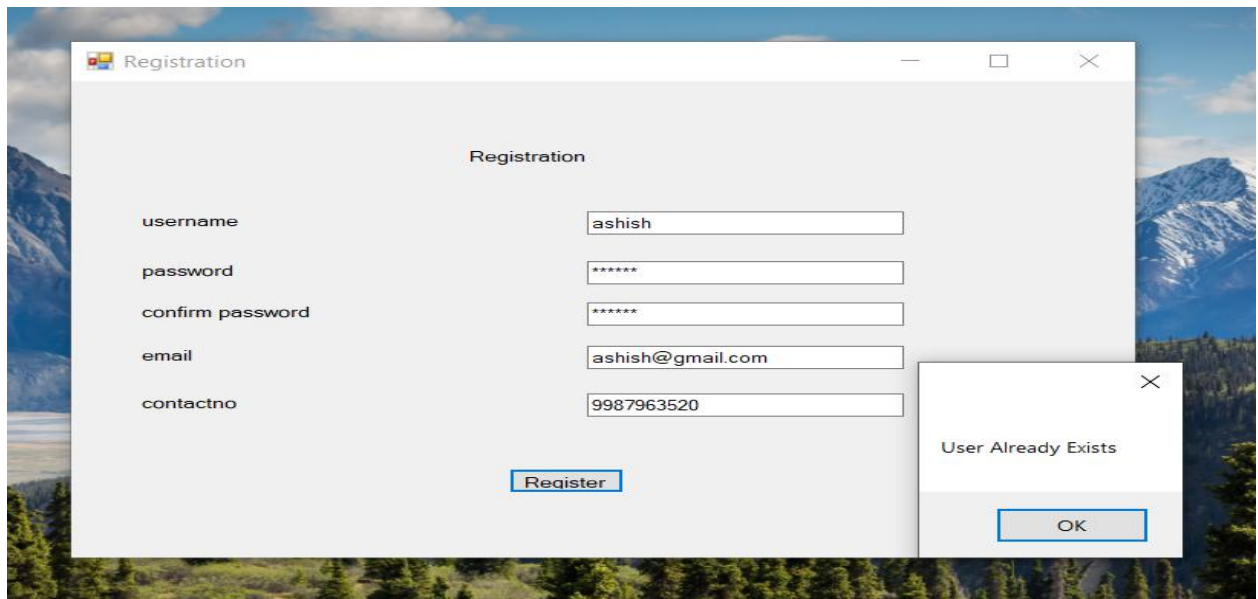
Function Prototype

11. Testing

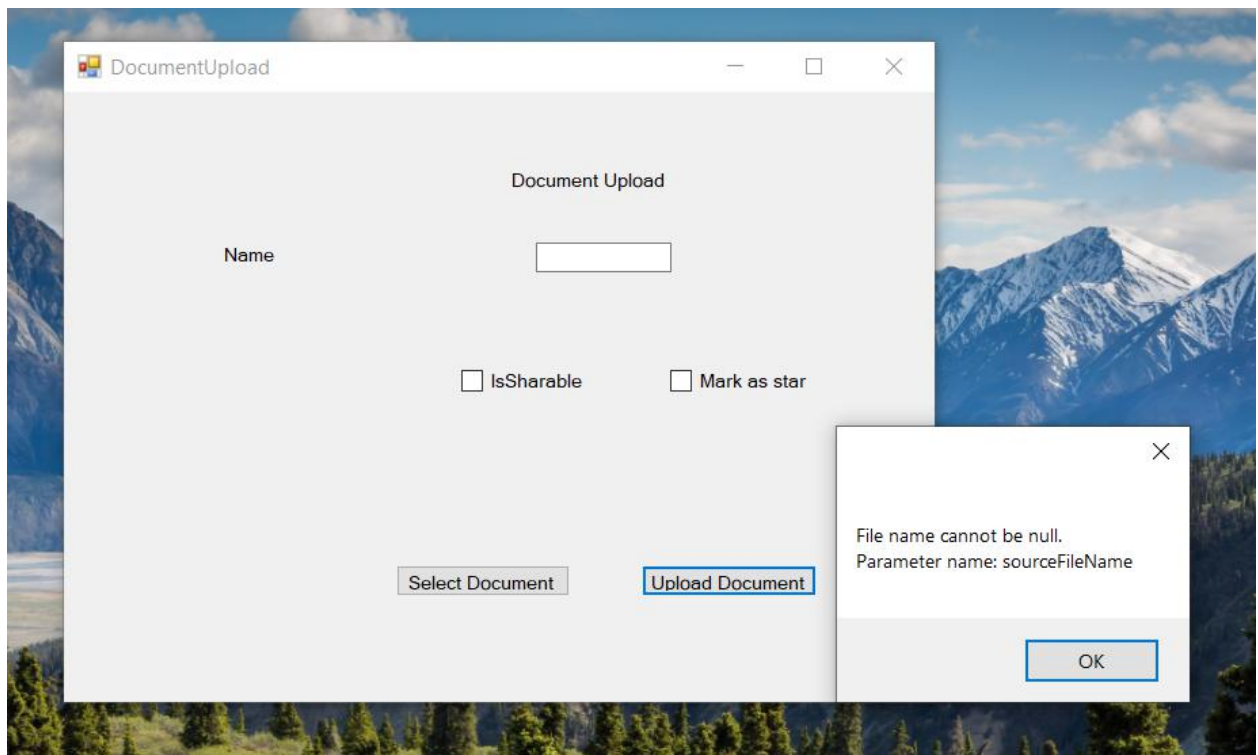
If the user enters the wrong credentials then the system shows a message box with invalid login credentials.



If a user tries to register with the same username that another user has then the system will show an error message regarding "User already exists".

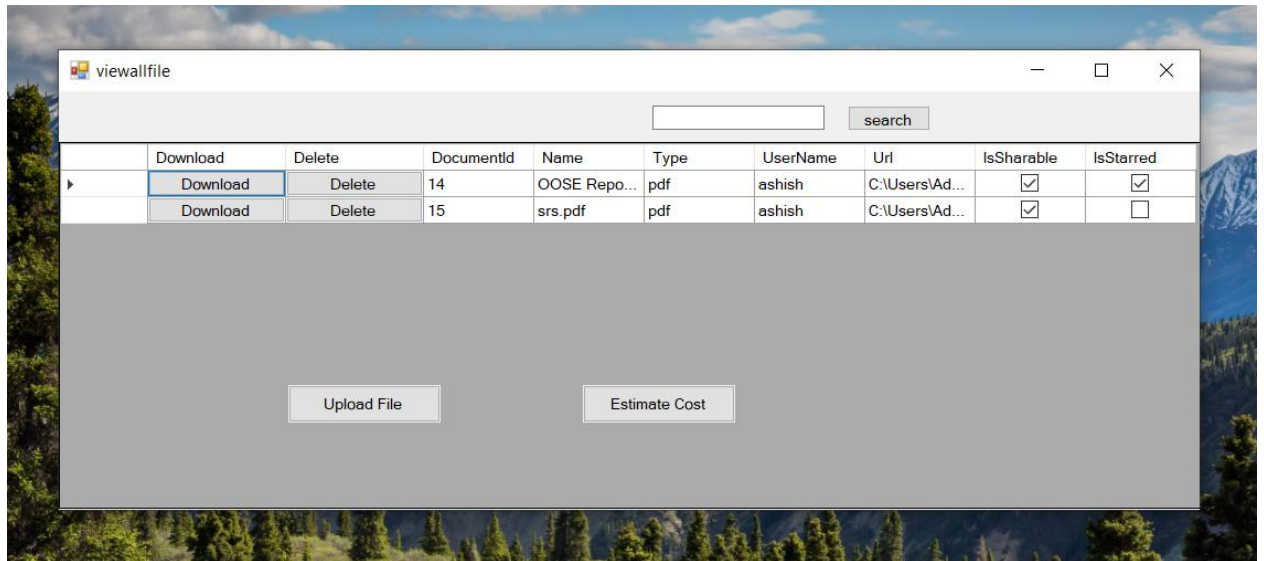


If a user tries to upload file without selecting file System will show error



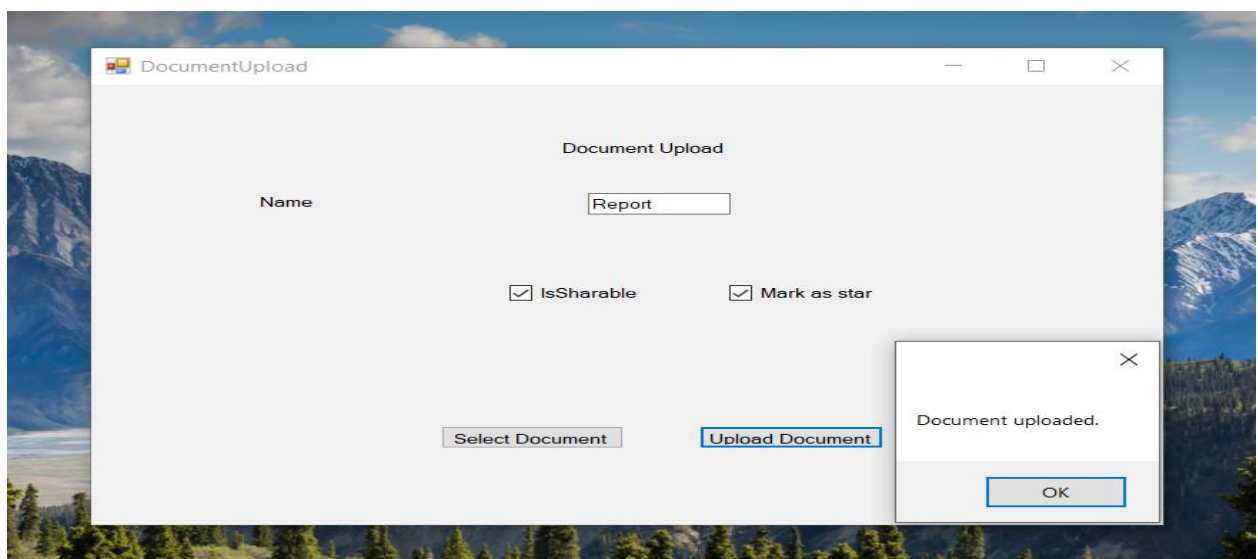
11.Screenshot

1. Display All Files



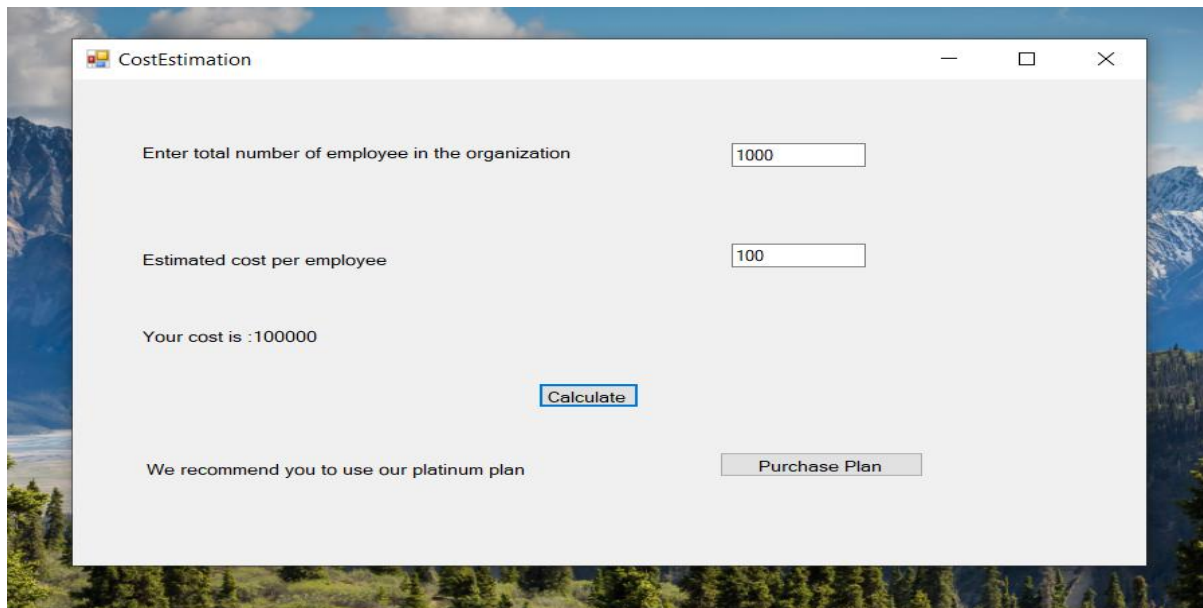
User can see all uploaded file and also download, update, delete selected file.

2.Upload Document



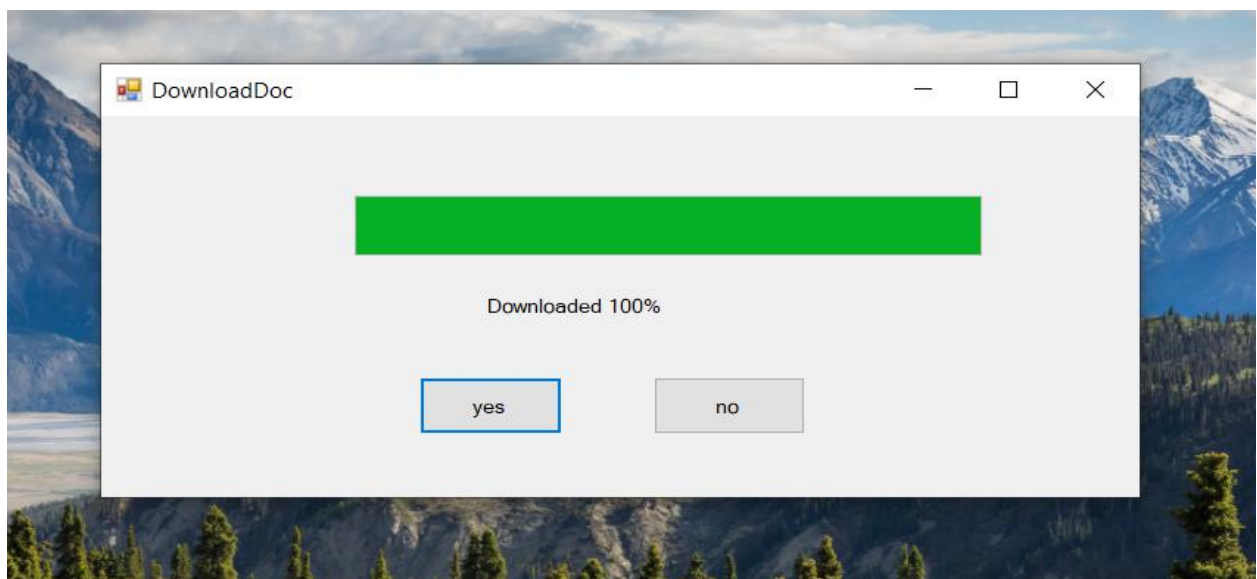
Users can upload a document with some extra features like whether you want to make that file as a favorite or sharable.

3. Calculate Estimate Cost:



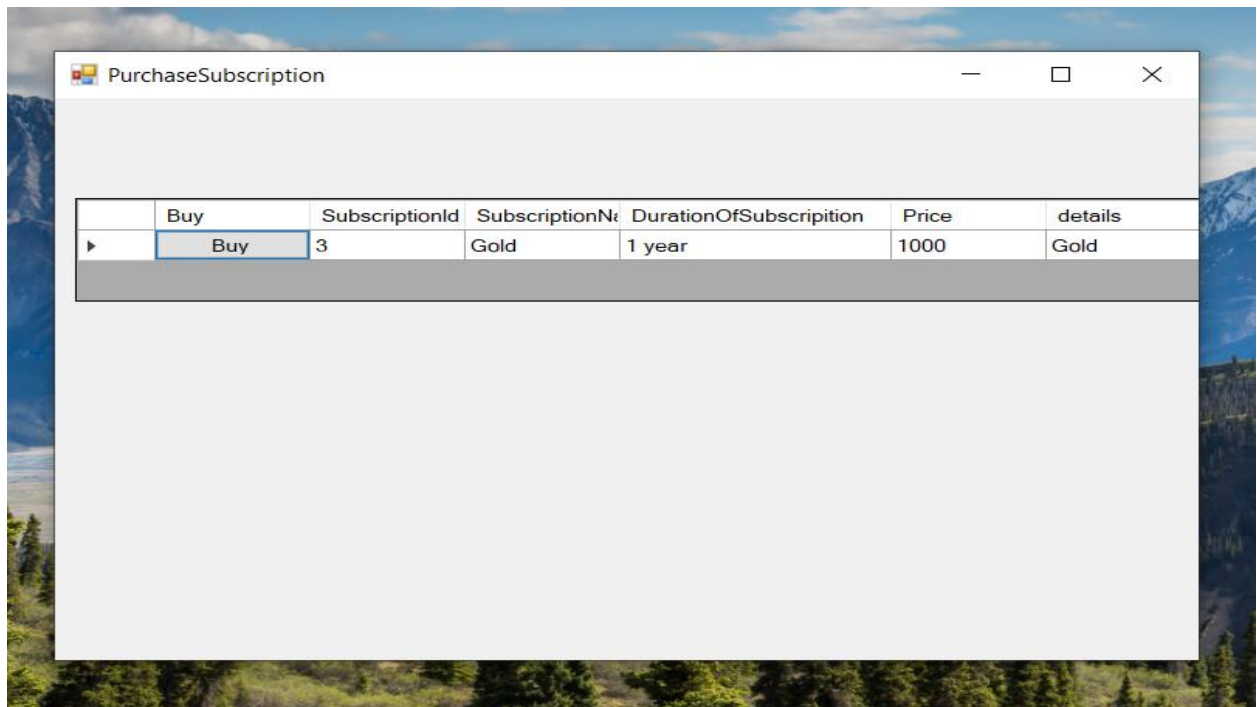
Users can calculate the estimated cost based on the employee number in a particular organization and cost per employee. Based on the calculation it will show the estimated cost and predicted subscription plan.

4.Download File:



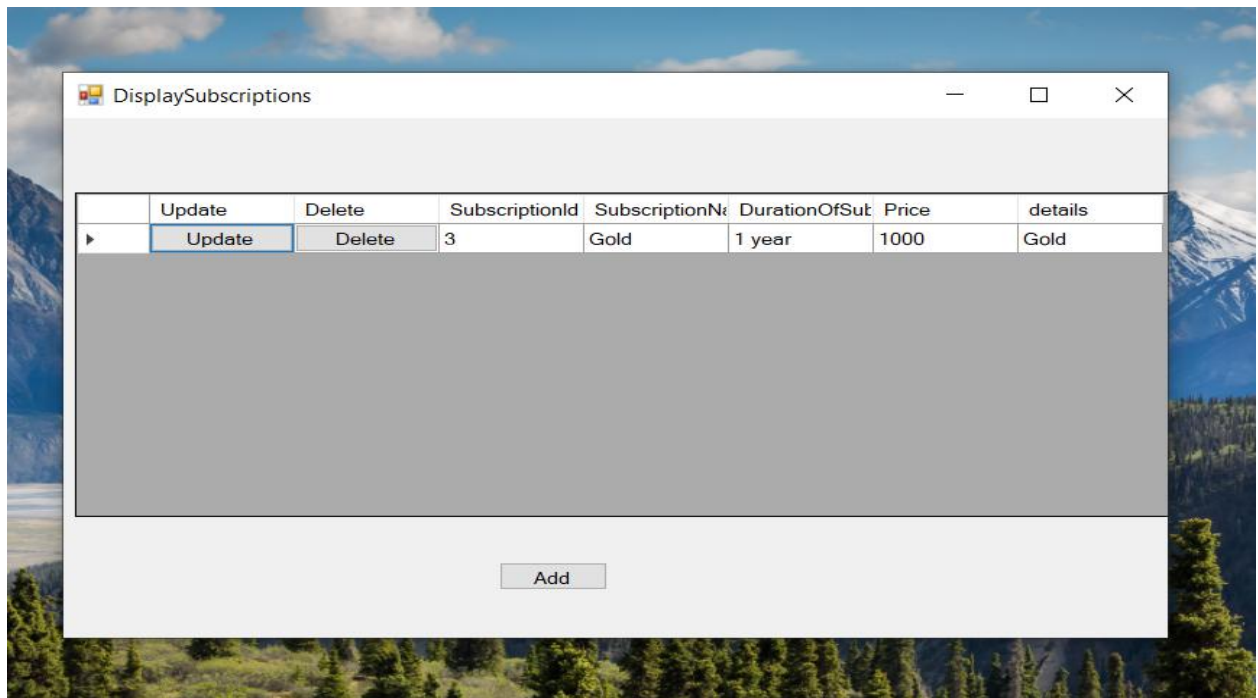
When a user starts downloading at that time progress bar will show the actual percentage of the downloading process and when the document is downloaded at that time "Document is downloaded" message will be given by the system.

5.Purchase Plan



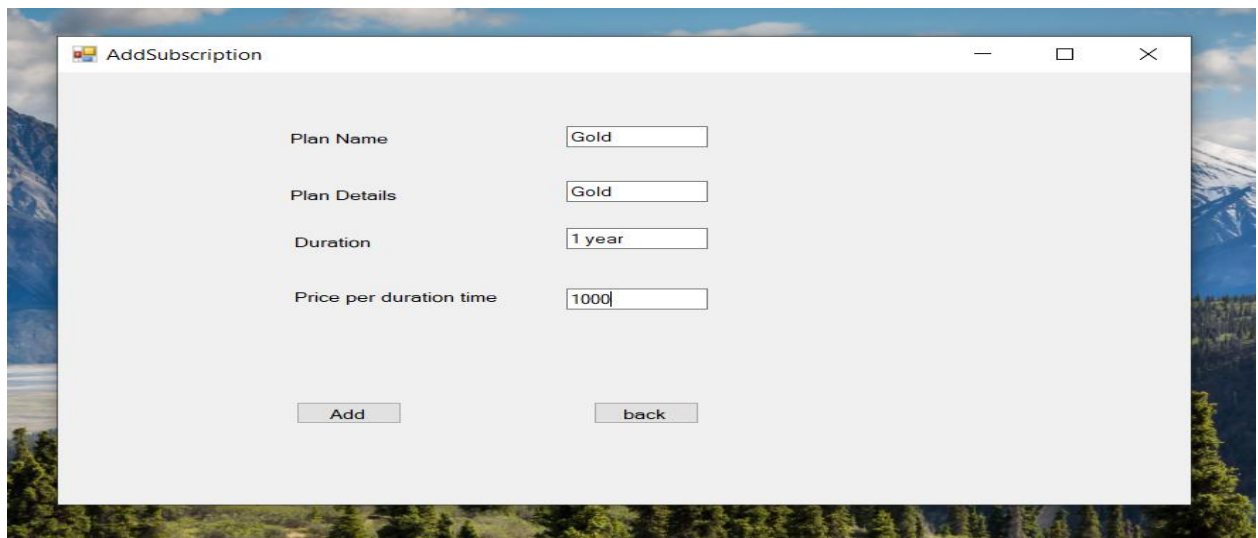
Admin:

Manage subscription:



Admin can view, update and delete subscription plans.

Add subscription:



12.Limitation and Future Extension

Limitations

- Our system provides only file handling.
- Systems have limitations of sharing a document because currently it is not supporting the sharable options to other users.
- Currently the organizational document is not managed in our system.
- Subscription handling is not as actual, it simply gives a notification to purchase it. Means system does not have a payment gateway.

Future Extension

- We are going to extend our system to handle all types of files.
- Systems will have the option of sharing a document with all other users, and we will try to build a live sharing system.
- We will implement the management of organizational documents in our system.
- Payment gateway will be added as extention so that actual subscription can be handld .

14. Conclusion

The functionality of this system is developed after understanding whole system flow and all module and it is as per requirement.

The functionality which were successfully implemented :

1. Registration/Login
2. Manage uploaded document
3. Upload new file
4. Download document
5. View all document
6. Share document and starred document
7. Manage subscription
8. Manage user account

15.Bibliography
