Practice

课程设计(论文)

题目： Movies System Management

院（系）：**Computer Science 学院**

专业班级：**computer**

学　号：**1**0**0**0****

学生姓名：**D. Ell Bouss**

指导教师：****

教师职称：****

起止时间：**2020.8.24 至 2020.9.4**

课程设计（论文）任务及评语

院（系）：电子与信息工程学院　　教研室：软件工程

学 号	1**0**0**	学生姓名	D. Ell Bouss	专业班级	computer
课程设计（论文）题目	**Movies Management System**				
课程设计（论文）任务	1.content （1）Create Movies Database (**videoType**: typeID, Type && **movie**: movieID, Title, Publisher, Previewed, MovieYear, typeID). （2）Output the list of movies with all the info; （3）Search one specific movie, different search methods; （4）Modify movies info; （5）Insert new movies; （6）Delete movies; 2.demand when writing program： （1）Create the database, use Entity-Relationship Approach; （2）Define function (main code), create interfaces, describe graphics; （3）Debug and run the program ,record the run result and analyze the result;				
指导教师评语及成绩	平时成绩：_____ 答辩成绩：____ 论文成绩： 总成绩：_____ 指导教师签字： 年　月　日				

1. FUNCTION OF SUBJECT

The selected subject is: **Movies Management System**.

Process:

Coding a software (desktop application) using Visual C# to store movies information (id, title, publisher, previewed, movieyear, type, …) in the most efficient way I can, and allowing users to do some basic operations in Data Structure, for example: Search, Insert, Modify, Delete, …
I have named said program

"**Movies Management System by D…**" or **D_Movie**,

from the beginning until the end of the course design I have looked for ways to systematically improve the program to its most efficient capability: running Beta Test of the program over and over again, going from one IDE to another (Microsoft Visual Studio, CodeBlocks, Dev C++…), the point is to minimize the bugs that occur when the program is running (indeed Building, Compiling, Debugging, and Running the code source or project will result no errors) thus although small bugs may occur in the program, they are on the most minimal scale and also, they are inexistent when carefully following the instructions.
This program allows the user to implement five 5 of the most useful operations in Data Structure on a window application with multiple forms:

- Output movies' list from database.
- Search for movies in database, by conditions.
- Modify or Update movies in database.
- Insert new movies in database.
- Delete movies from database.

2. DATA STRUCTURE

2.1. The chosen structure for the program is: Linear Structure

Advantages of linear structure:

1) Only one and the last data element.
2) Only one and the first data element.
3) Except the last, each data element has one next element.
4) Except the first, each data element has one prior element.

Linear programming is most suitable for solving complex problems. Helps in simplicity and productive management of an organization which gives better outcomes.

Improves quality of decision: A better quality can be obtained with the system by making use of linear programming.

Provides a way to unify results from disparate areas of mechanism design.

More flexible than any other system, a wide range of problems can be solved easily, saves memory, space and also provides faster access to data.

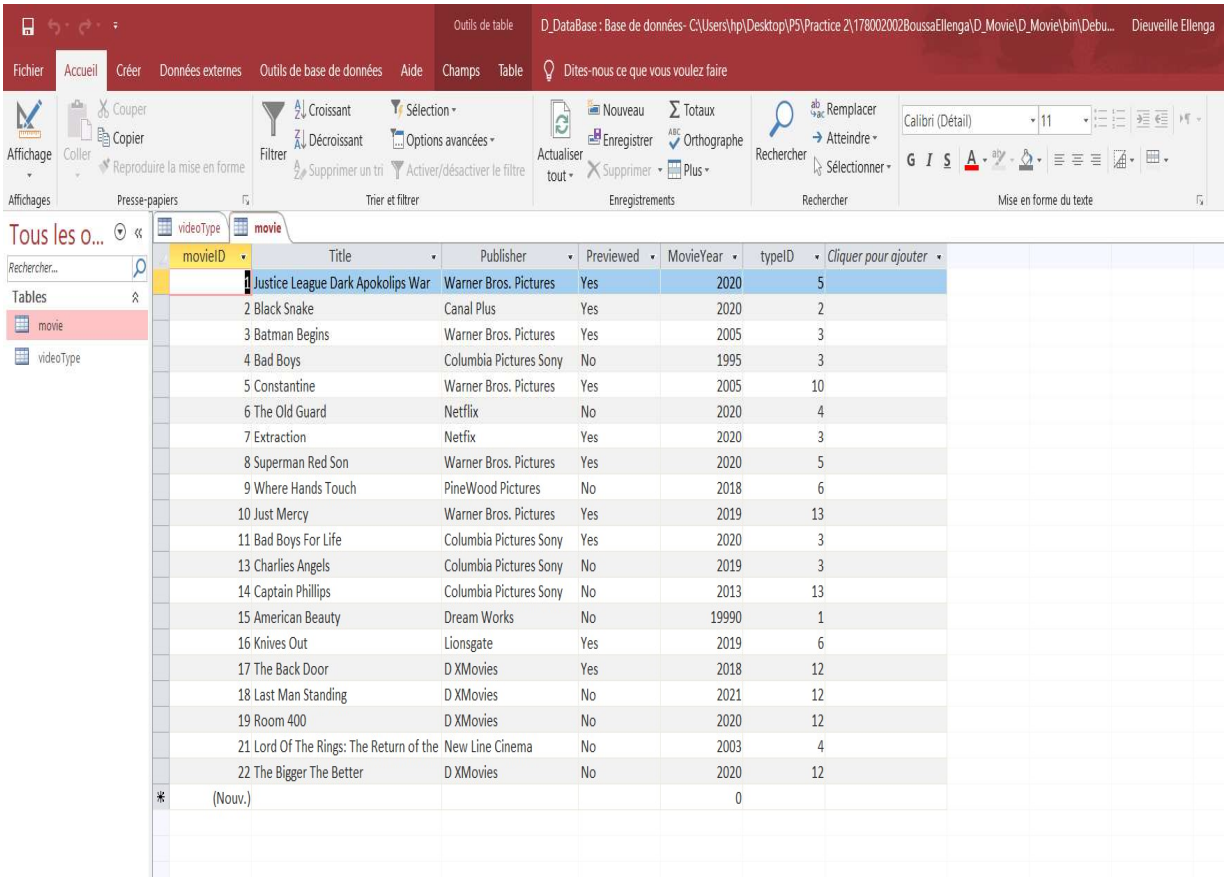
2.2. The chosen Database Management System is Microsoft Access

Microsoft Access is a database management system from Microsoft that combines the relational Microsoft Jet Database Engine with a graphical user interface and software-development tools.
It is a member of Microsoft Office suite of applications.

Advantages of Microsoft Access:

1) Quick and easy to create database systems
2) It produces very user-friendly applications
3) It produces flexible and adaptable database systems
4) Scalability
5) It is well known: easy to get help, documentation and support

The database file for this program is named D_DataBase and has two 2 tables



movieID	Title	Publisher	Previewed	MovieYear	typeID	Cliquer pour ajouter
1	Justice League Dark Apokolips War	Warner Bros. Pictures	Yes	2020	5	
2	Black Snake	Canal Plus	Yes	2020	2	
3	Batman Begins	Warner Bros. Pictures	Yes	2005	3	
4	Bad Boys	Columbia Pictures Sony	No	1995	3	
5	Constantine	Warner Bros. Pictures	Yes	2005	10	
6	The Old Guard	Netflix	No	2020	4	
7	Extraction	Netfix	Yes	2020	3	
8	Superman Red Son	Warner Bros. Pictures	Yes	2020	5	
9	Where Hands Touch	PineWood Pictures	No	2018	6	
10	Just Mercy	Warner Bros. Pictures	Yes	2019	13	
11	Bad Boys For Life	Columbia Pictures Sony	Yes	2020	3	
13	Charlies Angels	Columbia Pictures Sony	No	2019	3	
14	Captain Phillips	Columbia Pictures Sony	No	2013	13	
15	American Beauty	Dream Works	No	19990	1	
16	Knives Out	Lionsgate	Yes	2019	6	
17	The Back Door	D XMovies	Yes	2018	12	
18	Last Man Standing	D XMovies	No	2021	12	
19	Room 400	D XMovies	No	2020	12	
21	Lord Of The Rings: The Return of the	New Line Cinema	No	2003	4	
22	The Bigger The Better	D XMovies	No	2020	12	
(Nouv.)				0		

Tables in DataBase / D_DataBase – Picture

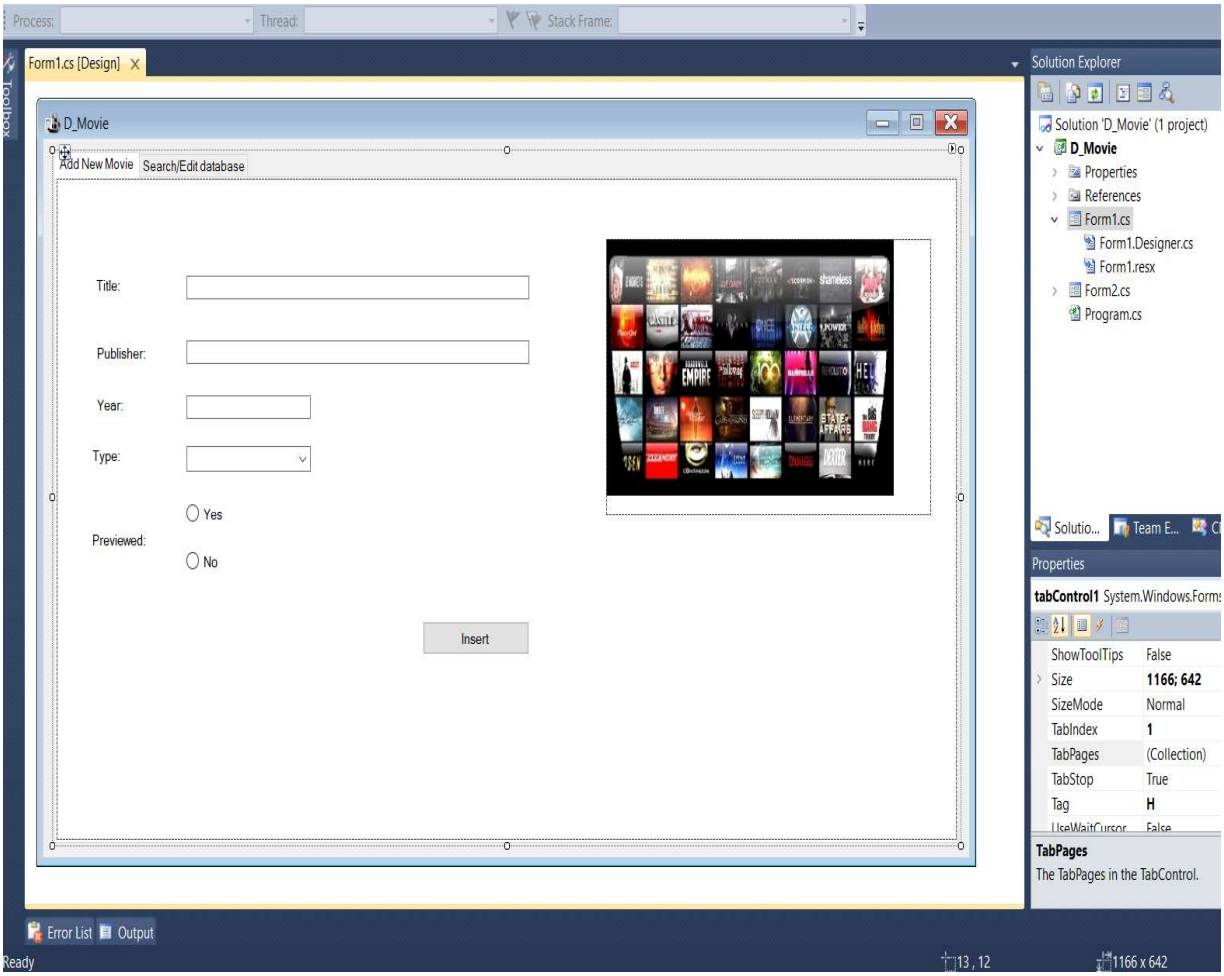
3. GRAPHIC DESIGN

The IDE used during the project is Microsoft Visual studio

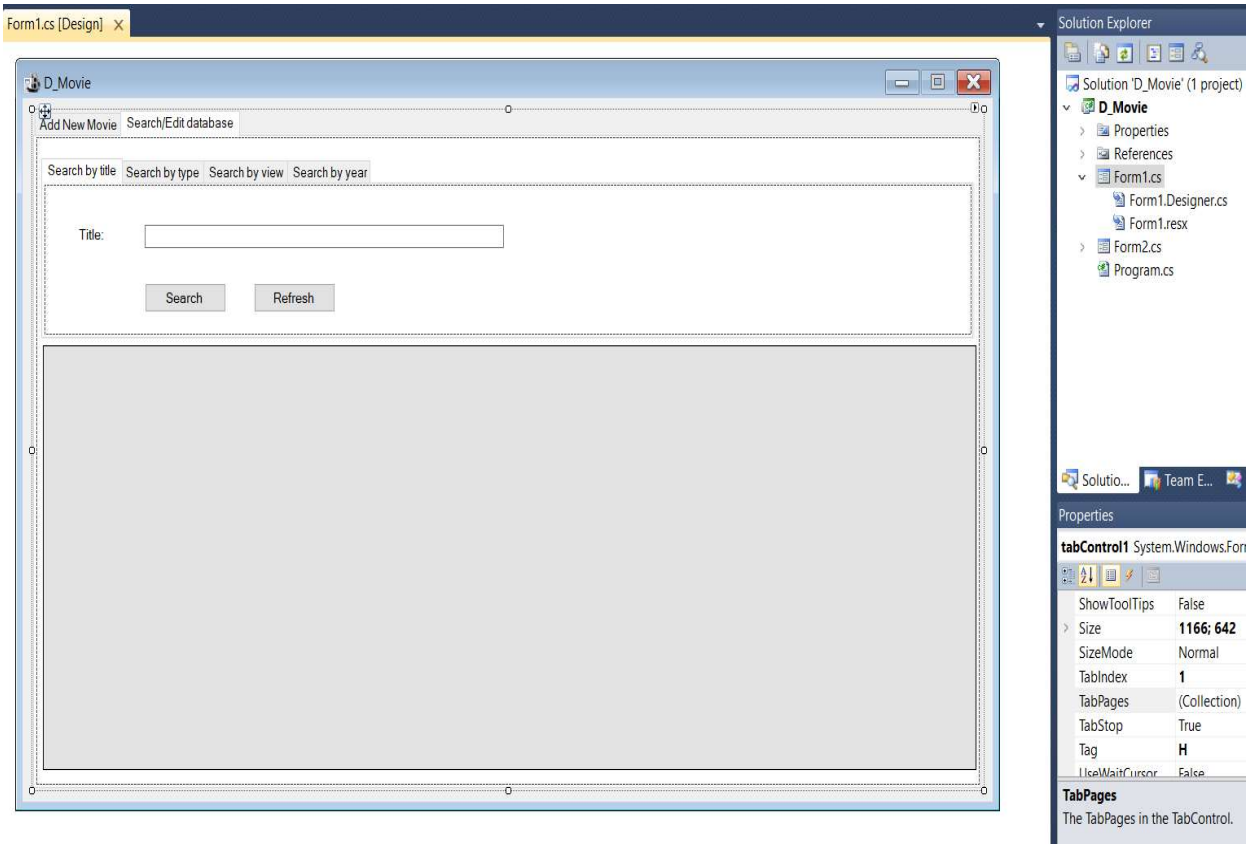
The program consist of two forms:

3.1. Form 1

Form 1 has a tabControl with multiple tabPages, a pictureBox, a linkLabel with a background picture and a clickable link text to my live website https://www.the-whiner.com designed and developed by me, a dataGridView, and many other elements …
The functions to Create or Insert a new movie, Search movies from database, Delete movies from database are implemented in form1, a button to Edit or Update movies belongs to the form1 but open the form2 on click.



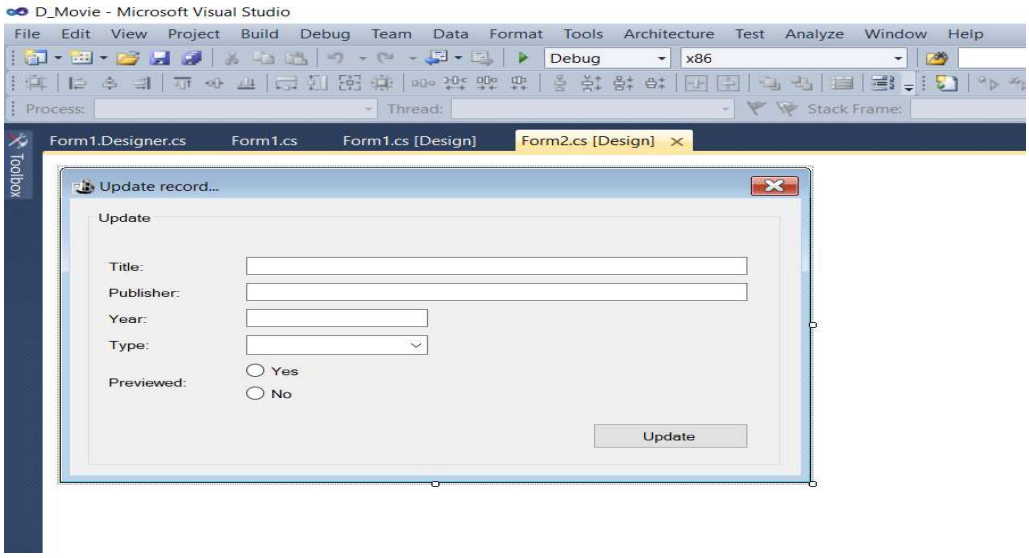
Form 1: tabControl1 / tabPage1 – Picture



Form 1: tabControl1 / tabPage2 – Picture

3.2. Form 2

Form 2 is shown after an on click event from form1 and has a groupBox with multiple other elements.
It is used for the Modify / Update function.



4. PROGRAMMING CODE

(1) List of header files

Total number of Header Files: 10

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Diagnostics;        // linkLabel process
using System.Data.OleDb;         // database methods
```

(2) List of Variables

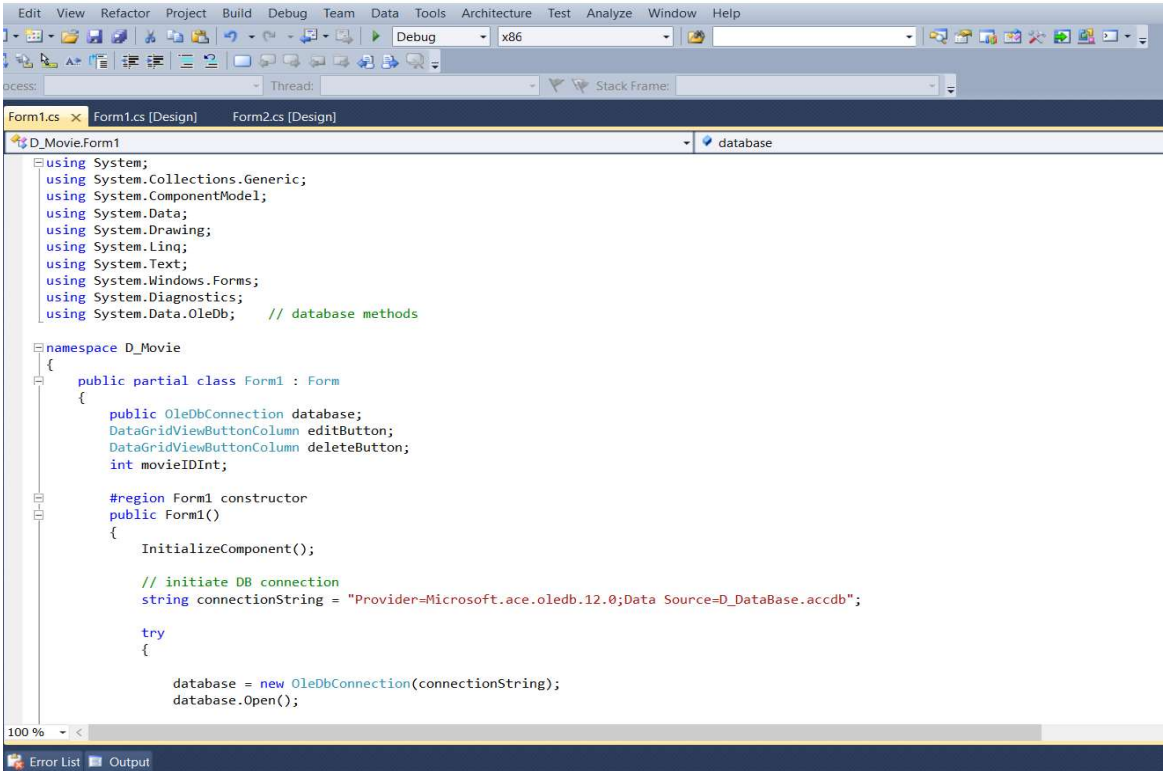
Total number of Variables: **32**

(3) List of Functions

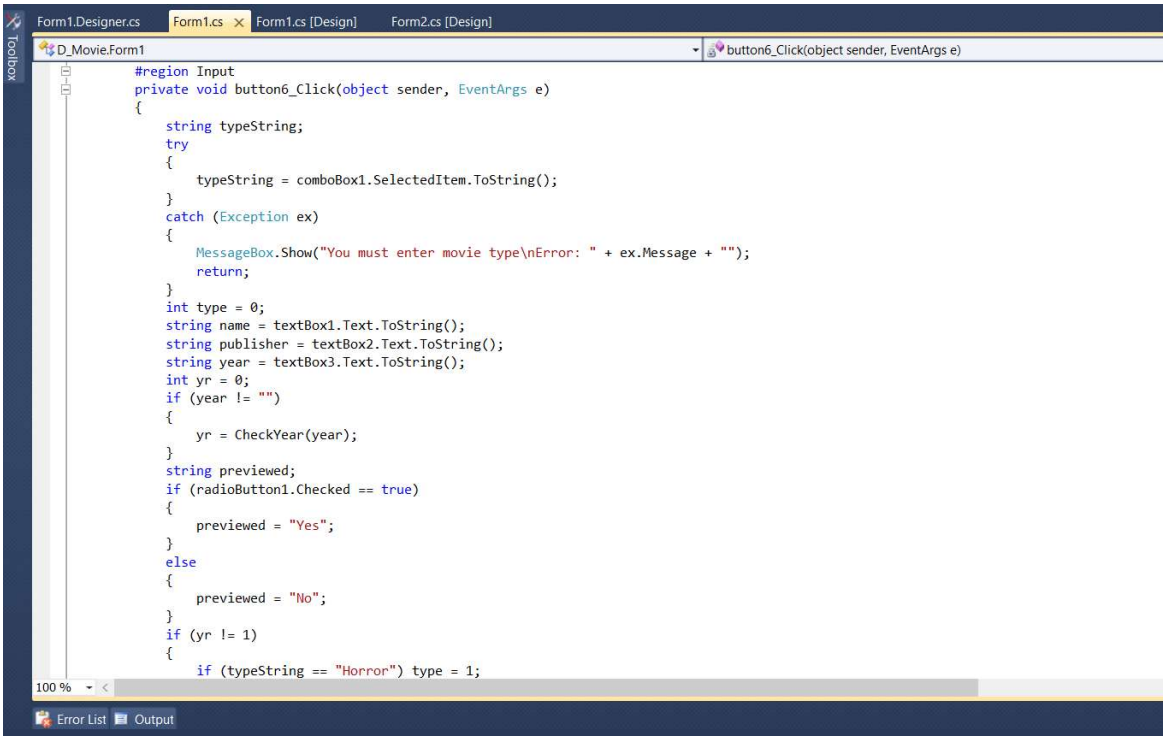
Total number of Functions: **a lot**

(4) List of Class

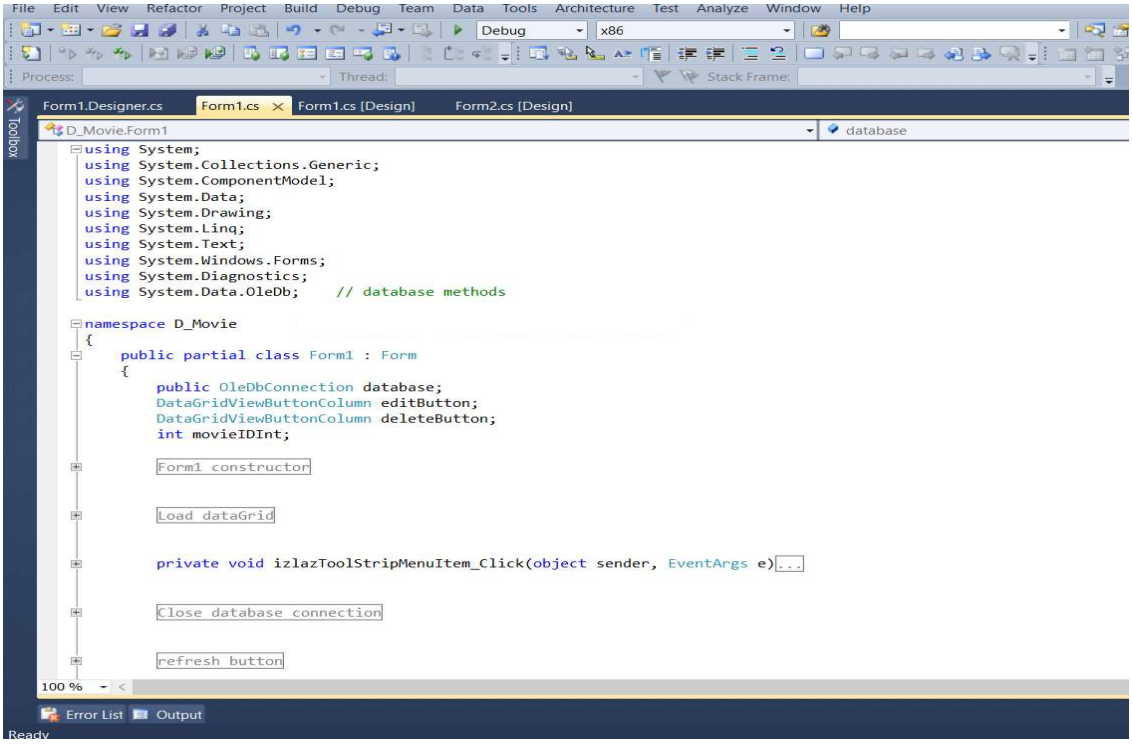
Total number of Class: **a lot**

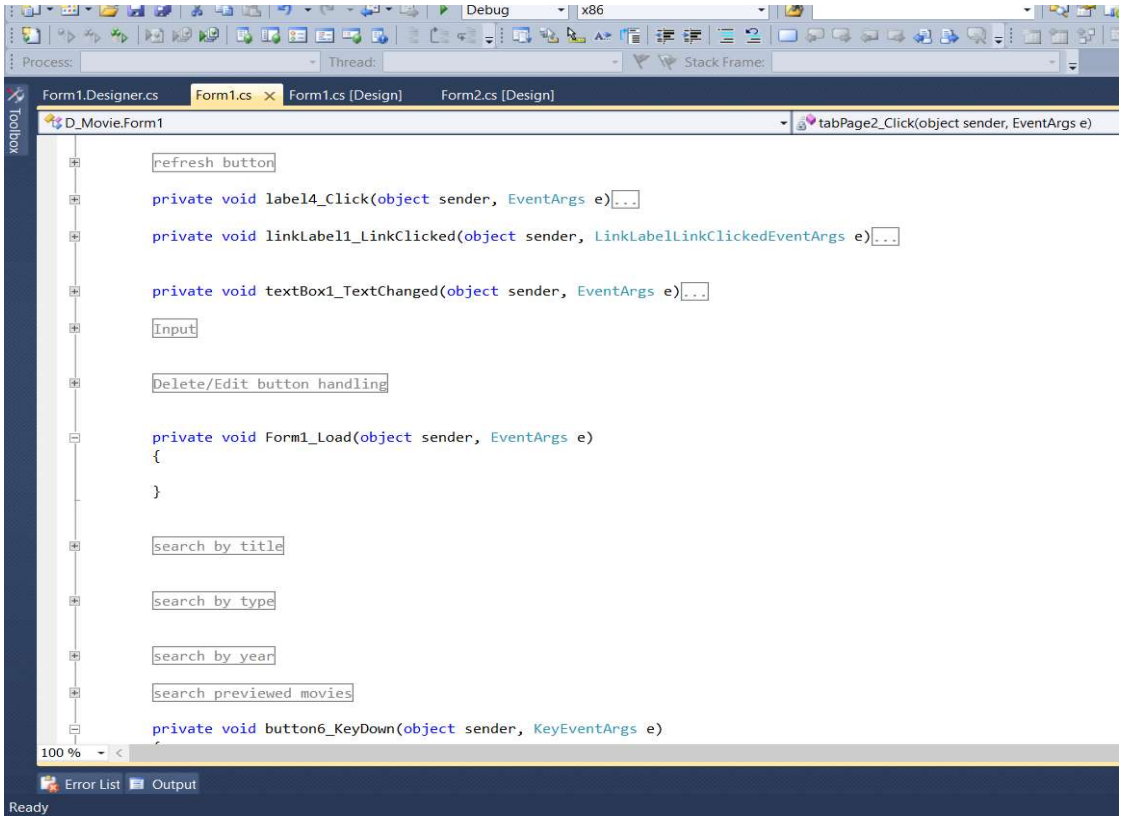


picture a) Header Files



picture b) Variables

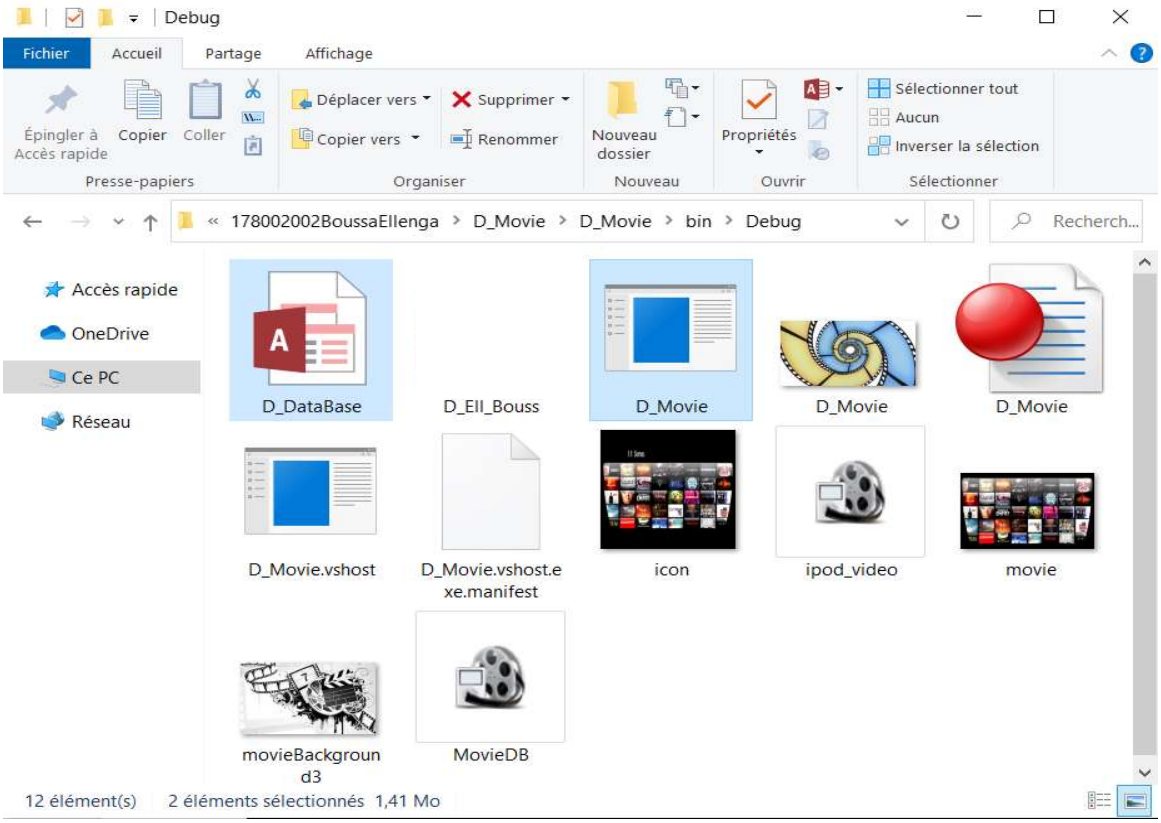




picture c) Sub-Functions

5. RUNNING

(1) Instructions

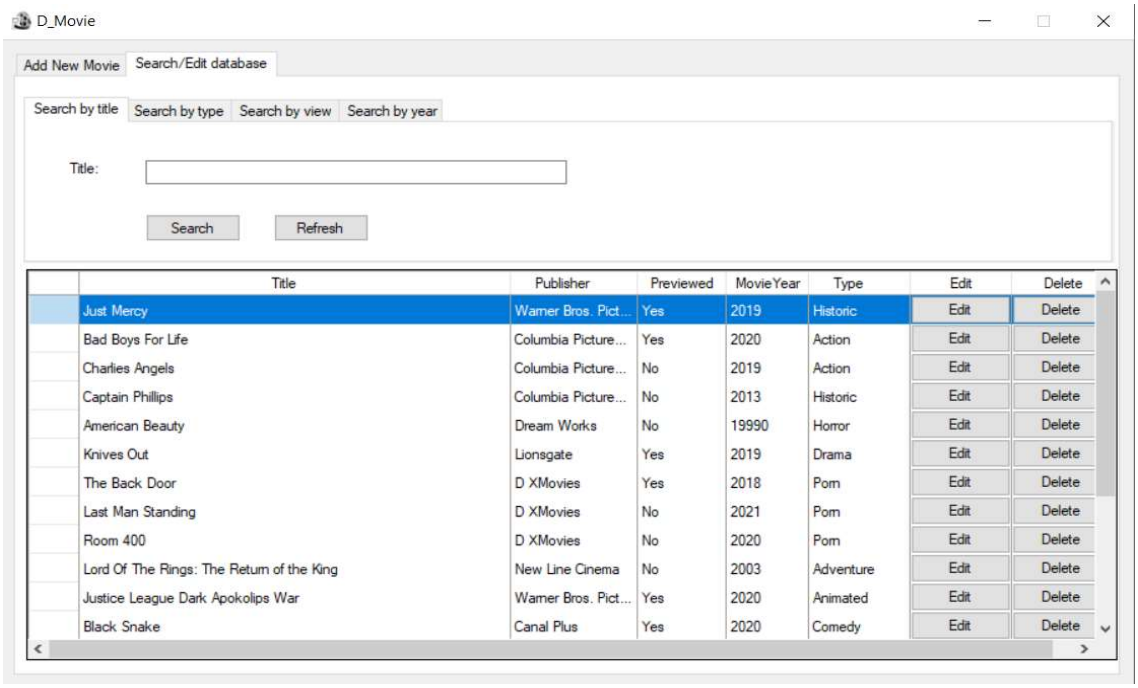


picture 1: File Instructions

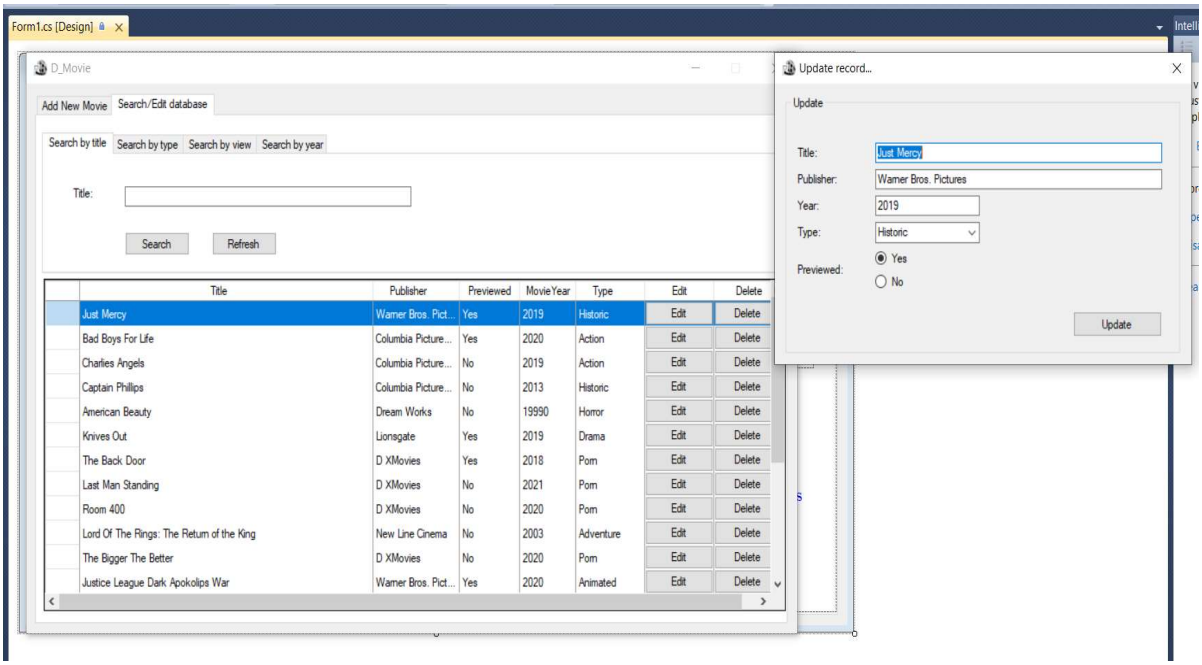
The database file **D_DataBase (.accdb)** must be in the project / debug folder with the executive file D_Movie or else the program will not properly work.

(2) Running

picture 4: Main Menu



picture 5: Grid View Search / Delete



picture 6: Grid View / Edit

SUMMARY

The D_Movies (Movie System Management by D …) allows the user to implement 5 operations: Create or Insert, Output, Search, Modify or Update, Delete. It is a very efficient system that stores movies' information: Title, MovieYear, Publisher, Previewed, Type. The user defines the movies, creates the list by inputting the information, then can view it, also search for a specific movie information by several methods, then modify or insert the records and even delete them, and all of that with a database file saving every changes.
The database file D_DataBase (.accdb) must be in the project folder with the code source D_Movie or else the program will not work.