Entries in the MS-Flex Grid

Narinder Kumar Sharma

Under the Guidance of Mr. Ashwani Sethi

Guru Kashi University Talwandi Sabo

Email Id: - Nar12f1980@Yahoo.Co.In

ABSTRACT

Two popular data access mechanisms are data bound controls with data access objects, and remote data controls with remote data objects.

The main difference between these methods are that data bound controls are usually used to connect to desktop databases, and remote data objects are used to connect to client/server data (for client database manipulation of a remote database).

Using Microsoft's FlexGrid control (MSFLXGRD.OCX) you can create utilities to display, filter, edit, validate and update your data. For example, such utilities could include:

1. data entry & validation
2. high level reports
3. ported spreadsheet macro applications retaining cell layout & format

Also, users do not require any addition software or tools for it to connect it accurately in order to provide authentication. This technique is helpful for connect with database programming system and it save the extra time which is wasted for connect with different Sheets i.e. Excel Sheet and other Style Sheets and we connect the database with this programming tool and access the data.

The research on Entries in the MS – Flex Grid is completely attached with database system. In this research we can attach MS – Flex Grid programming tool with database system. At a time we can attach with database and access the data from the database table in the grid. If we required enter information in the grid then we are helpless because this tool do not use the entries and in other words we cannot enter the data in the MS – flex grid cells. So my research is that if we required enter the data

or modify the data in the grid then we can do this with the coding and some techniques. This research is completely based on coding.

Keywords: - Visual Basic 6.0 Programming, Database, Visual Basic Programming Control i.e. ADO and MS – Flex Grid tool

INTRODUCTION

Using Microsoft's FlexGrid control (MSFLXGRD.OCX) you can create utilities to display, filter, edit, validate and update your data. For example, such utilities could include:

4. data entry & validation
5. high level reports
6. ported spreadsheet macro applications retaining cell layout & format

Included in VB4 (32-bit), VB5 and VB6, are several grid-orientated controls aimed at managing rows and columns of data, however one of the most versatile, hence its name, is the FlexGrid. Most of the other grid objects are specifically designed for data

binding, whereas the FlexGrid has many collections of properties, methods and events that lend themselves to several environments in addition to just data-binding.

One of the most powerful applications of the FlexGrid is in managing data from database tables in an unbound state. That is, to populate & edit the FlexGrid and writes the contents back to the database in code. This may seem a pointless exercise as objects such Microsoft's Data Bound Grid Control are written specifically for this purpose, except these grids simply display the contents of a recordset, record by record, field by field. Whereas the FlexGid can populate the grid in any manner, examples of which are:

1. separating grouped data with blank rows/columns,
2. adding sub/grand-total rows/columns,
3. changing the color of the cell background or text in individual or multiple cells,
4. reacting to the state of the data, e.g. highlighting negative values,

5. Validating entered data e.g., numeric values, positive values, permitted date ranges etc.

These are just a few of the possibilities available with FlexGrids; we'll take a look at more later on.

One important point is that in addition to the grid controls available as standard to Visual Basic, many third party grid controls are available that boast impressive features such as embedded combo boxes, picture boxes, custom data validation etc. Many of these are excellent controls; however they all come at a price proportional to the size of their feature list.

That said, most of the functionality found in these third party grids can be accessed with FlexGrids with a little extra code which we'll cover in this article and as well as saving money, you'll gain knowledge of creating and customizing your grid controls to suit your specific application and you won't have to remember to distribute those third part runtime dll's that custom controls often require.

Using the FlexGrid

To use the FlexGrid in your application, right click the Toolbox or select the Project menu and choose 'Components'. The Components dialog box appears as shown in Figure 1.
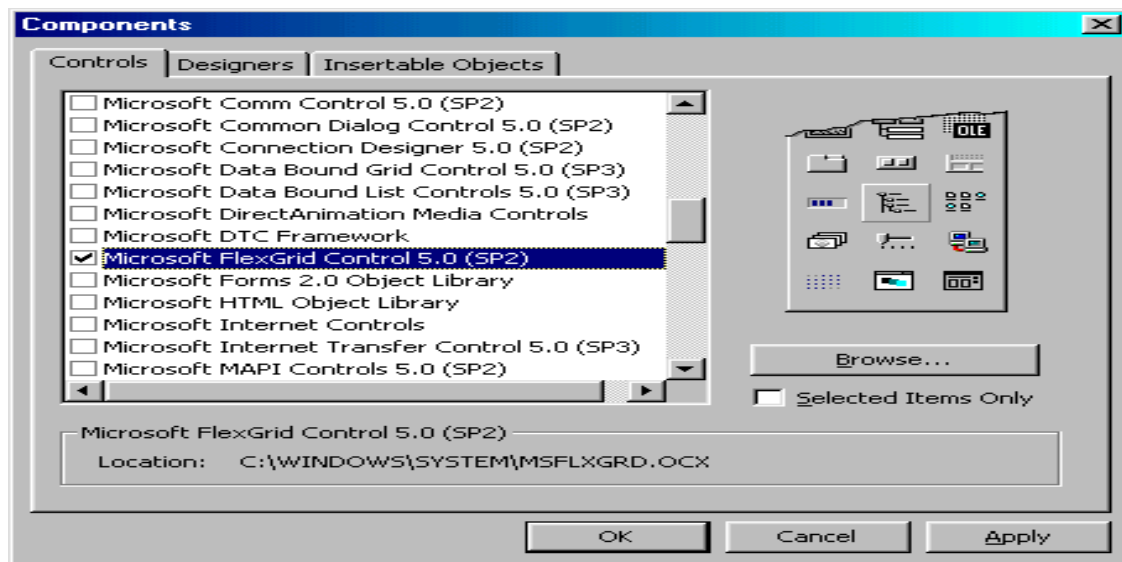

Figure 1: Components Dialog Box

Select Microsoft FlexGrid Control and copy the control onto your form from the Toolbox. The default FlexGrid will appear on the form as shown in Figure 2.
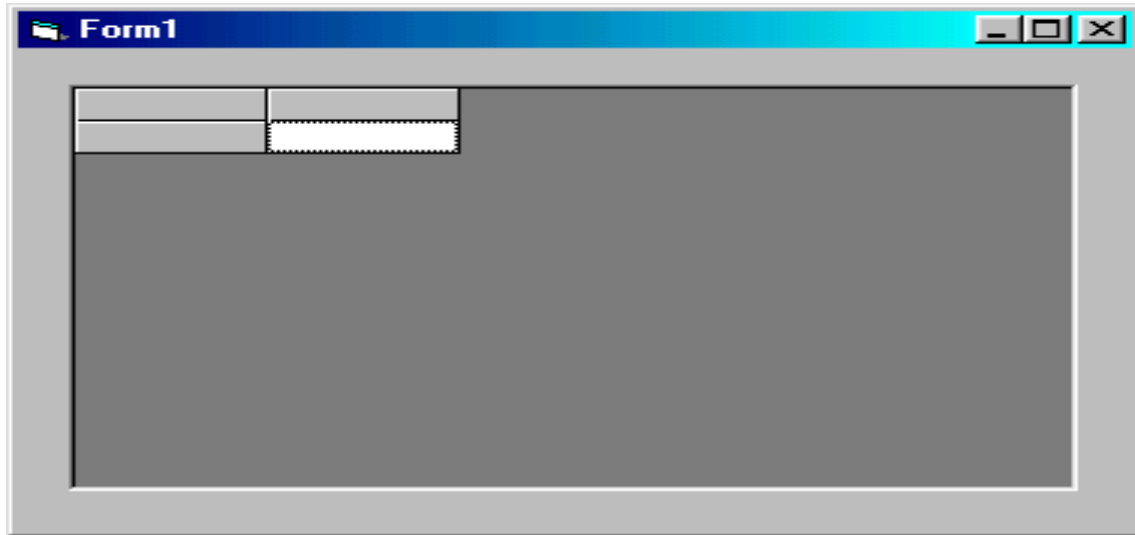

Figure 2: Default FlexGrid Appearance

There are a few simple formatting tips to improve to appearance of the FlexGrid:

First of all, it's good practice to determine the initial number of grid rows and columns using the Row and Col properties respectively. Then set the number of fixed rows and columns (those that hold row and column headings - raised and in grey) with the FixedRow and FixedCol properties respectively.

To ensure the columns are the correct width to fit inside to FlexGrid, first set a variable to the width of the FlexGrid, allowing for a vertical Scrollbar width. Then use this variable to resize to individual column widths, by dividing it by the number of columns.

The height of individual rows can be changed to accommodate multi-line headings. This is done by simply multiplying the appropriate row height by a scaling factor, in this case two, to double the height.

When increasing the size of a row height, to make sure text uses the extra available space, use the WordWrap property the ensure text continues on the next cell line.

Regarding writing text to the grid there are two main methods. The first one is using the Additem method; this writes text to an entire

row in one action and is therefore useful for adding headings. The vbTab constant is used to distinguish adjacent cells. The second method to populate grid cells with text is to directly address individual cells and using the TextMatrix or Text property and set the cell's text.

PROBLEM FORMULATION

Before developing research we keep following things in mind so that we can develop powerful and quality research.

PROBLEM STATEMENT

Problem statement was to design a module:

- Which will be user friendly?
- Which will restrict the user from accessing other user's data?
- Which will help the user in viewing his data and privileges?
- Which will help the administrator to handle all changes?
- In which further additions can be made without changing its design drastically.
- Which would restrict the server traffic?

Another problem was that the data should be accessed from the server and accordingly changes should be made on the data in the server only. The main problem comes with Excel Sheets and other sheets, because Excel Sheet or other sheets do not connect with database and it does not support the programming language. When the situation is that when we connect the database with programming language then we use the programming tools on run time and if we require the data which support the database and connect with database then using Excel Sheets and other sheets are helpless at that time.

FUNCTIONS TO BE PROVIDED

The various features that the proposed system will possess will be:

- The system will be user friendly and completely menu-driven so that users shall have no problem in using all the options provided.
- The system will be efficient and fast in response by careful programming.
- The system will be customized according to the needs of the organization.
- It will provide overall security to database both from user as well as administrator side.

According to the situation of the problem, a solution is provided to use a Visual Basic programming Tool that is MS – Flex Grid which has been connect with database according to requirement of the user.

Unlike the databases of MS Access, SQL Server database and the Oracle database if we connect the MS-Flex Grid with database then we access the data from the database in the MS-Flex Grid tool, because in programming language this tool fully

support the database. But this technique or research helps us to connect the database and access the data from the database in the grid. And second solution is that any database which is Access, SQL Server and Oracle database has been used with this programming tool.

Also, users do not require any addition software or tools for it to connect it accurately in order to provide authentication. This technique is helpful for connect with database programming system and it save the extra time which is wasted for connect with different Sheets i.e. Excel Sheet and other Style Sheets and we connect the database with this programming tool and access the data.

My Research is Entries in the MS – Flex Grid The research on Entries in the MS – Flex Grid is completely attached with database system. In this research we can attach MS – Flex Grid programming tool with database system. At a time we can attach with database and access the data from the database table in the grid. If we required enter information in the grid then we are helpless because this tool do not use the entries and in other words we cannot enter the data in the MS – flex grid cells. So my research is that if we required enter the data or modify the data in the grid then we can do this with the coding and some techniques. This research is completely based on coding.

Employee Payroll System

Master Setup   Calculation Form   Payroll   Reports   Utilities   Help   Terminate

Attendance Calculation Form

Dated :- 6 /16/2014   Please Fill the Total Days of This Month : - 30

Department Category

SrNo	Department Category
1	Administrative Staff
2	Eatablishment Section
3	Maintenance Section
4	Academic Cell
5	Accounts Section
6	Comp Hardware And Non Teaching
7	Hostel Warden
8	Library Department
9	ECE Dept
10	CSE Dept
11	Mech.Dept
12	Applied Dept
13	Workshop Dept
14	MBA Department
15	Civil Department
16	Electrical Department
17	Agriculture Department
18	Physical Department
19	Dept of Languages
20	School Department
21	Dept of IT Research
22	Dept of Petrochemical and Refining
23	Other EPF and Third Class Staff
24	Administrative Staff1
25	Eatablishment Section1

Emp Name	Designation	MonthDays	WPS	NetDays
Dr. Nachhater Singh Malhi	Vice Chancellor	30	2	28
Prof. Gurbhajan singh Gill	Director Planners	30	2	28
Dr. Narinder Singh	Director Finance	30	2	28
Dr. B.S. Dhaliwal	Dean Academics	30	2	28
Mr. Satish Kumar Goswami	Registrar	30	2	28
Mr. Harpal Singh	Director Campus	30	2	28
Mr. Ashwani Sethi	Dy. Dean/Dy. Registrar	30	2	28
Mr. Karanjeev Singh	TPO	30	2	28
Mr. Barjinder Singh Mann	Controller of Examination	30	2	28
Mr. Nayak Das	A.O	30	2	28
Mr. Kuldeep singh	Superviser	30	2	28
Mr. Dharmpal Singh	Elect.	30		30
Mr. Jagga Singh	Superviser	30		30
Mr. Gurmeet Singh	Security Supervisor	30		30
MS. Pooja Goyal	PA/Registrar	30		30
Mrs. Sarbjit Kaur	P.A./Dy. Dean Devp.	30		30
Ms. Seema Rani	P.A./ DR. Examination	30		30
Mr. Shiv Kumar	P.A./ DR. Examination	30		30
Ms. Krishan Bala	DEO	30		30
Ms. Anju Bala	Clerk	30		30
Ms. Amanjeet Kaur	P.A./Director Planning	30		30

Print   Save   Cancel   Exit

Employee Payroll System   6/16/2014   12:11 PM   User Name : - Admin   CAPS   INS   NUM

.

This Form Show the entries in the MS – Flex Grid and connect with database table on run time window

RESEARCH METHODOLOGY

What is Algorithm in Computer Science?

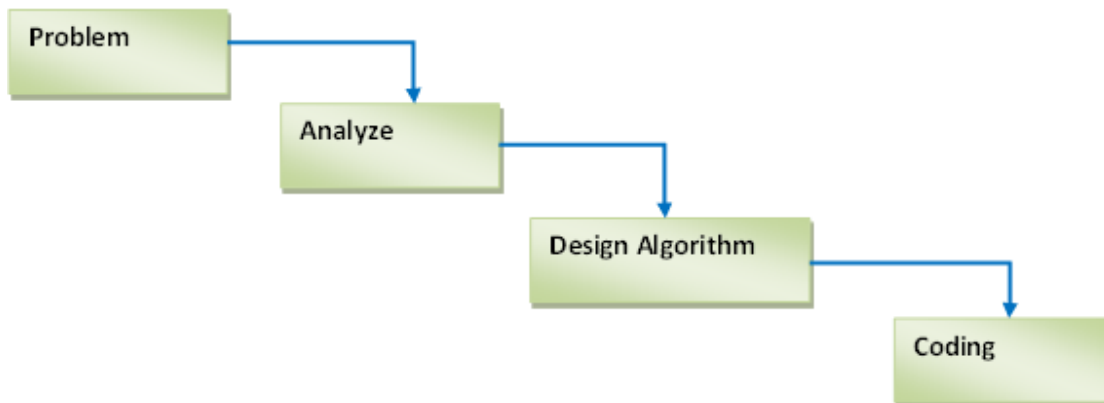**Algorithm** is a process of problem-solving in step by step to get result. Algorithm is very importance for programmers to do computer programming because it figures out the programming process. Algorithm is a part of problem-solving techniques. After the problem has been raise, we have to analyze the problem first then the inputs and outputs are defined. After that we start to design the algorithm that is a process to transform inputs into outputs.

FIGURE.Problem – Solving Technique
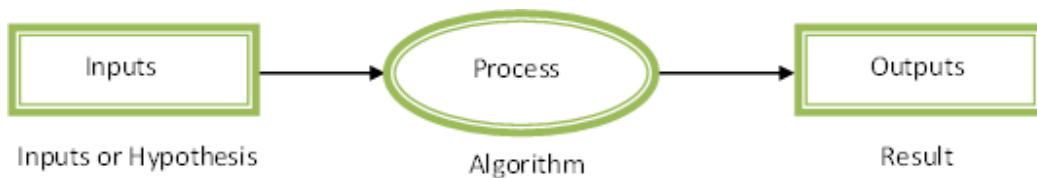
FIGURE.Flow – Chart of a Problem

Problem: - First of all the main question arises that what is the problem? The problem is that we can enter the information or data in Excel Sheets and other Sheets but these Sheets do not support a database system with programming language. If we want to enter the data or information in excel sheet or other sheet then we want to modify or support these sheets with database and programming language then we are unable to do this. So in this problem we waste a lot of time cost for support the database or programming and increase the coding efforts. Finally we are unable to do with excel sheet or other sheet which are support with database or programming.

Analyze: - I analyze this problem which is serious and it should have easy solution. Then I have made an algorithm which is necessary to solve this problem. With the help of this algorithm and database model diagram in my research I am able to access the data or also able to enter the data in MS – Flex grid which is programming tools and support with database and give the results better than excel sheet or other.

Design Algorithm: - The steps of this algorithm used in my research are as follow: -

1. Firstly I have made a database which is Payroll.mdb in MS Access. This database has several tables which are necessary for my research project.
2. My research project front-end is Visual Basic 6.0 and back-end is MS Access and platform used in this research is Window XP.
3. Then I have made the Attendance form which is used in visual basic programming language and make a connection provider with ADO control which is used in VB components.
4. I connect this form with database and database table through the connection provider OLEDB.
5. This form consist the MS – flex grid which is used to access the data from the database table and we can enter the data in this grid for modification, updating and deletion. Four buttons which are Save Cancel, Delete and Exit.
6. Finally I am able to connect MS – Flex grid with database table to

access the data and also enter the data in the grid. This algorithm is used to reduce the time cost and another coding procedure.

RESULT

EXPERIMENTAL RESULTS

6.1 VISUAL BASIC FORM WITH MS – FLEX GRID CONTROL

My Research is Entries in the MS – Flex Grid The research on Entries in the MS –

Flex Grid is completely attached with database system. In this research we can attach MS – Flex Grid programming tool with database system. At a time we can attach with database and access the data from the database table in the grid. If we required enter information in the grid then we are helpless because this tool do not use the entries and in other words we cannot enter the data in the MS – flex grid cells. So my research is that if we required enter the data or modify the data in the grid then we can do this with the coding and some techniques. This research is completely based on coding.
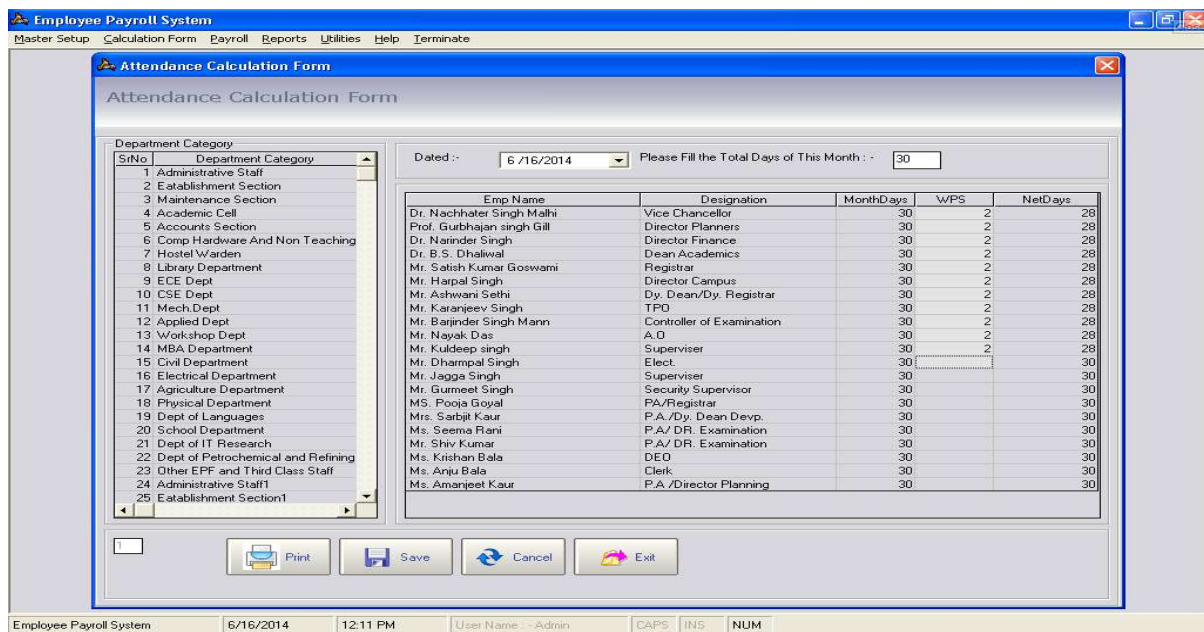

FIGURE 9.My Research of Attendance Form with MS – Flex Grid

This Form Show the entries in the MS – Flex Grid and connect with database table on run time window.

CONCLUSION AND FUTURE WORK

One of the most powerful applications of the FlexGrid is in managing data from database tables in an unbound state. That is, to populate & edit the FlexGrid and writes the contents back to the database in code. This may seem a pointless exercise as objects such Microsoft's Data Bound Grid Control are written specifically for this purpose, except these grids simply display the contents of a recordset, record by record, field by field. Whereas the FlexGid can populate the grid in any manner, examples of which are:

1. separating grouped data with blank rows/columns,
2. adding   sub/grand-total rows/columns,
3. changing the color of the cell background or text in individual or multiple cells,
4. reacting to the state of the data, e.g. highlighting negative values,

5. Validating entered data e.g., numeric values, positive values, permitted date ranges etc.

Unlike the databases of MS Access, SQL Server database and the Oracle database if we connect the MS-Flex Grid with database then we access the data from the database in the MS-Flex Grid tool, because in programming language this tool fully support the database. But this technique or research helps us to connect the database and access the data from the database in the grid. And second solution is that any database which is Access, SQL Server and Oracle database has been used with this programming tool.

Also, users do not require any addition software or tools for it to connect it accurately in order to provide authentication. This technique is helpful for connect with database programming system and it save the extra time which is wasted for connect with different Sheets i.e. Excel Sheet and other Style Sheets and we connect the database with this programming tool and access the data.

REFERENCES

1. Frenz, C. (2002). Scientific Graphics. In *Visual Basic and Visual Basic. NET for Scientists and Engineers* (pp. 221-240). Apress.

2. Lifen, H., & Jingli, B. (2010, October). Software design of LCA for coal-fired power generation purposes Life Cycle Assessment. In *Computer Application and System Modeling (ICCASM), 2010 International Conference on* (Vol. 9, pp. V9-242). IEEE.

3. Frenz, C. (2002). Programming Your Own Spreadsheets. In *Visual Basic and Visual Basic. NET for Scientists and Engineers* (pp. 199-219). Apress.

4. Schultes, S., & Barlow, C. (1998). Manipulate Data With VB6's New Grid Control. *Visual Basic Programmer's Journal*, *8*(13), 78-80.

5. Cowell, J. (2000). Intrinsic and ActiveX Controls. In *Essential Visual Basic 6.0 fast* (pp. 88-109). Springer London.

6. Wei, B., Zhu, Z., & Wang, Q. (2008). The Visualization Study of a Green Slope System. In *Geotechnical Engineering for Disaster Mitigation and Rehabilitation*(pp. 585-590). Springer Berlin Heidelberg.

7. Frenz, C. (2002). Arrays and Loop Structures. In *Visual Basic and Visual Basic. NET for Scientists and Engineers* (pp. 95-124). Apress.

8. Connell, J. (2003). Programming the Data Control. In *Beginning Visual Basic 6 Database Programming* (pp. 83-126). Apress.