

ITGS Project Report:

Product Title:

“Pocket money record” (a record of the pocket money in the boarding.)



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School: Indus International School

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Word Count: 2170

“G. Identifying the problem within a social context:”

This project is focused on pocket money record of the students in the boarding, entitled as “Pocket Money Record.” Maintaining the record of all the students’ pocket money in boarding of “Indus international school.” It is important to the school to maintain the record .the data should be kept in secure way and should be in an orderly manner.

The Problem in social context (present system, and its inadequacy which is been used Manual System).

- There may be mistakes in recording the data manually.
- It consumes lots of spaces for the storage of the data.
- There is the chance of physical damage to the manually record data which may cause loss of data.
- It is a time consuming process, the same data cannot be updated in the same place such as deposit.
- Searching for a person’s data from the first to the date is very difficult task.
- It is waste’s lots of paper for recording the pocket money.

The major problem in recording the pocket money is that it is time taking process and also there might be errors which lead to problems. An IT system MS-access can be used to record the information. For this I have discussed with Mr. Prakash the accountant in “Indus international school.” This will be a time saving process and there will not be any errors.

My Client, it the boarding administration office in international school as they have over 250 borders and the admin office administrates their pocket money.

My End User, is Mr.Prakash who is the boarding administration staff who will be handling the account of the boarding students pocket money.

The IT system should consist of a database, with a table for students, and another table to maintain the accounts. Input forms need to be developed for the input of data, reports to be generated to give several outputs.

“H. Analysis and Feasibility Study:”

Feasible IT solutions are: -

- 1) Microsoft Excel.**
- 2) Microsoft Access.**

IT Approach on MS Excel:

Microsoft Excel is one of the software in the package of Microsoft Office developed by Microsoft. Excel is a spreadsheet and contains graphing tools, table and calculations, etc. The software is user friendly and helpful to people. Considering Pocket Money Record, it is not be very appropriate because graphs are not much useful, the tables and calculation will be of some help.

Advantages

1. Using Excel, the data can be sorted, filtered and grouped. On this data we are extracting values such as averages, maximums, etc.
2. Using Excel massive data sets can be imported, organized and explored within significantly expanded spreadsheets.
3. Excel can be directly connected to OLAP databases and integrated with Pivoted tables.
4. Excel is has a number of building financial functions like depreciation Fixed Assets, etc.
5. Excel spreadsheets can be sent to others through email making it very portable.
6. Easy to synchronize with PDA/Pocket Excel.
7. Excel Spreadsheets can be secured by assigning password to it.

Disadvantages

1. Excel is good for a small amount of data and not fit for large amount of data.
2. Program execution when applications are developed into a single file.
3. When files and functions are put into multiple files, it becomes scattered and difficult organize or find.
4. Excel 2003 has 65536 records and 2007 has 1,048,576 records.
5. You can't export excel spreadsheets directly to PDF.
6. When printing a spreadsheet that is too wide for the paper cannot be in a proper way.
7. When the rows or columns are removed, formulas might be extended to include these in new rows or columns.

IT-Approach on Microsoft Access:

It is a database management software developed by Microsoft, this software helps organized data into tables, allows us to connect them using relations, excellent input screens can be designed, data can be filtered using queries and reports help presenting data.

Advantages

1. User can work with Access without being highly skilled in the field.
2. Access is good for large amount of data.
3. Using Microsoft Access data can be filtered, grouped, sorted and sub grouped.
4. Tables created in Microsoft Access can be linked and used for generating reports.
5. Multiple reports can be created for the same set of data in Microsoft Access.
6. The large number of templates available in Microsoft Access makes creating new databases quite easily.

Disadvantages

1. Access is not portable. It cannot be send to someone through email.
2. Databases larger than 2GB in size are difficulty to deal.
3. Microsoft Access is more useful for small scale business sectors but might not be good for the large scale business sectors.
4. Microsoft Access is friendlier for developers rather than end users.

Justification of chosen approach:

MS-Access has a search wizards and also it make easy to manage the data storing. It helps us create simple application using simple programs. Access is specially made for creating databases and it helps creating simple applications. MS-Access helps us create excellent data tables to store data. Input screens can be designed to enter data, organizing and filtering becomes easy using reports and queries. Lookup options are useful to lookup the data you are looking for. Memory space occupied by this program is very little space on the user's system. As compared to other programs access has practically no data loss and data can be accessed easily.

“I. Planning and developing the chosen IT solution:”

The first thing I would do is to make a brief study on the ITGS project, than I would think about the maintaining pocket money record and see the possible IT solutions. Later I would see the requirements for the IT solution (hardware and software).

Timeline:

“Planning and development of product:”

Date	Task	Achievement
27 th Sep 09	To find out a topic related to the problem.	Decided to on pocket money recording using software.
17 th Oct 09	Finding appropriate software to solve the problem.	Found the different softwares such as MS-Access, Excel & Java.
19 th Oct 09	Finalizing on one software from the list	Decided to use Microsoft Access as it is user friendly.
24 th Oct 09	An approach has been decided and testing	Giving out questionnaires to the accountant.
4 th Nov 09	Product development	Made tables required for recording pocket money,
5 th Nov 09	Product development	I designed all the forms for the respective tables, all forms needed to be user-friendly screen.
7 th Nov 09	Product development	Switchboard was designed and all components where liked to the same.
8 th Nov 09	Product development and written report	I have made the final changes which were required for the product to be user friendly

Implementation and testing:

Date	Task
15/01/09	Test it by myself
16/01/09	Test for first testers
18/02/09	Test for second tester
20/02/09	Questionnaire developed and tried out with the testers.
22/02/09	Analysis of results
25/12/09	End used Mr. Prakash, went through the software and has tried out some data samples.

Hardware:

I have developed this software on a laptop with the help of Microsoft Access during my school time. Information of the software and hardware components, which were used are mentioned below.

Laptop	DELL
Central Processing Unit	Intel Pentium Dual Core Inside
RAM	4 GB
Hard Drives	DELL, 320GB
Flash Drive	Transcend 4 GB

Laptop: This database can be use on a desktop than a laptop as it might not be needed to move from one place to other. A minimum of 512MB and more is needed and a hard disk of 40GB will be sufficient as it more organized.

Flash Drive: is a hardware device which helps transferring files from one computer to other. I have used it to transfer file and also for backing up my data to prevent the loss of the data.

Peripheral Devices: We would require a printer to printout, students account statements, the final accounts and student forms.

Backup: Regular backups could be made on pen drives, CD's or even external driver

Software

The table shows the softwares needed to create a database for this project. The software used is Microsoft Access.

Description	Purpose	Name Company, Version
Operating Systems	System operations	Windows XP Microsoft, Version 2007
Word Processors	For creating written report	MS-Word Microsoft office, Version 2003
Spreadsheet	Alternate Solution	MS-Excel Microsoft office, Version 2003
Database	Product Solution	Microsoft Access Microsoft office, Version 2003

MS-Word: Microsoft-Word has been used for doing my report and questionnaire. I have represented in tables and paragraph form.

Microsoft Access: The main product is been developed using MS-Access. The tools that are been used in this are Tables, reports, labels, queries, menus and switchboards.

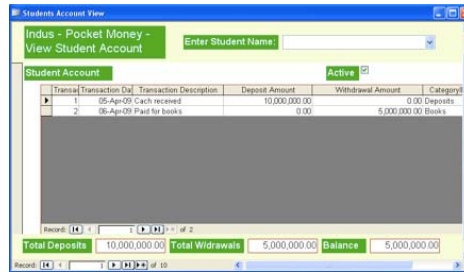
Windows XP: An operating system used to make this project. It is the software which is used to run the computer.

“Screen Shorts of the Product Solution”

Main menu



student account summary



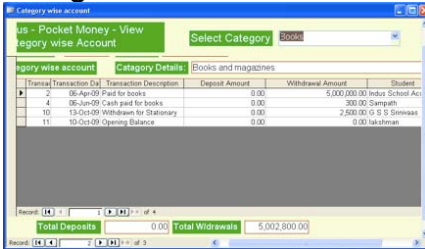
student wise account summary



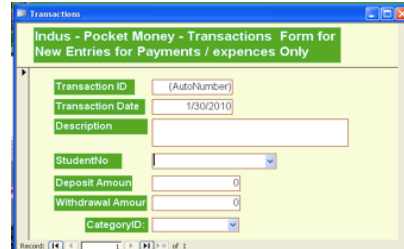
view/search account transaction

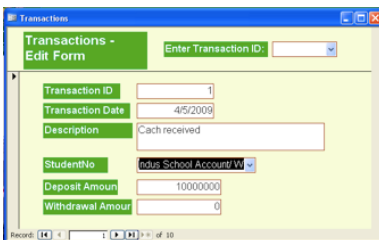
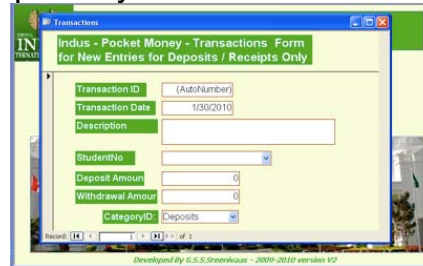
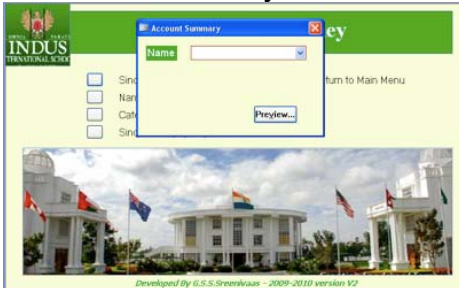
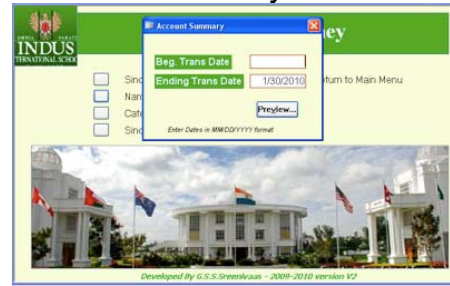


categories wise account



transaction form for new entry





Class

A screenshot of a software window titled 'Class'. It features a table with two columns: 'ClassNo' and 'Class'. The table contains four rows of data:

ClassNo	Class
1	Class
2	Class
3	Class
4	Class

At the bottom of the window, there is a record navigation bar showing 'Record: 14' and '1 of 4'.

New entire category

A screenshot of a software window titled 'Categories'. It features a table with two columns: 'Category ID' and 'Category Details'. The table contains three rows of data:

Category ID	Category Details
1	Deposits All deposits, receipts from student/ parents
2	Books Books and magazines
3	Food All types of food items

At the bottom of the window, there is a record navigation bar showing 'Record: 14' and '1 of 4'.

Student status

A screenshot of a software window titled 'Students Status Change'. It contains a form with the following fields:

- Name:** A dropdown menu.
- StudentNo:** A text input field with the value '1'.
- Name:** A text input field with the value 'Indus School Account/ Warden Account'.
- ClassNo:** A dropdown menu with the value '1 Class'.
- Active:** A checkbox that is checked. Below it is a note: '--- To Deactivate Un Check the Check box'.

At the bottom of the window, there is a record navigation bar showing 'Record: 14' and '1 of 1'.

add new student

A screenshot of a software window titled 'Students Add New'. It contains a form with the following fields:

- StudentNo:** A text input field with the value 'AutoNum'.
- Name:** A text input field.
- ClassNo:** A dropdown menu.
- Active:** A checked checkbox.

At the bottom of the window, there is a record navigation bar showing 'Record: 14' and '1 of 1'.

Data collection:

Mr.Prakash gave me all the required primarily data as he is the one who is responsible for maintaining this account. The main data was the original records of student's pocket money information for a week was recorded.

“J. Testing and evaluation:”

Earlier than giving the product to end-users and testers, I myself tested the product and also made the necessary changes, which were required. The product was user friendly and a feasible solution for the problem.

First tester Mr. Jayakumar,

Mr. Jayakumar suggested that date wise search would be more appropriate to search. In this way we can have the database more organized. Mr. Jayakumar is an IT adviser at Indus being qualified he is qualified with a bachelor degree in computer and has sufficient experience in this field and therefore he is ideal for my testing.

Second tester Mr. Prakash

On testing he found it was hard to navigate according to the Category, so it would be easy for his search. Mr. Prakash is an end user of the product and a person who takes care about the boarder pocket money account at Indus.

Refinements made to Product:

- 1) Field for category is created as per recommended by Mr. Prakash
Before After



- 2) Date wise search has been made available as recommended by Mr. Jayakumar
Before After



“K. Assessing the social significance of the product”

As compared to olden days, the volume of files and data stored these days are huge, if you walk into a government organization you would find volumes of books stored in several rooms. If you would require a document, you will have to wait for days or months to get it as they will have to hunt for it. This caused a huge inconvenience to the public.

Organization and quick access, use MS-Access help in organization of large volumes of data that can be stored in a single file and can be accessed instantly. We need not have to wait in long quee's and waste time paying our bills all the this information is updated instantly.

Networked on single file on the central server, if you look at the railways today you will see that you can book your tickets from any part of the country without any classes causing a lot of convince to the customers to the extent of even booking your tickets from home.

Duplication of data and saving of paper. With the help of relationships we are able to have master files to store master information only once and have them accessed any time combining other files with the use of unique codes. A lot of time gets saved in terms of data entry, checking and so on. As data is intact and every can view this information any were anytime, in the world with the use of web sites there is no need to printing of the same.