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I would like to pay my deepest tributes to my loving parents whose invaluable prays, salutary advises and emboldening attitudes kept my spirit alive to complete this project.

PROJECT BRIEF

Project Title   Computerization student affairs
                           System Quaid-i-Azam University
                           (Islamabad)

Undertaken by   Muhammad zafran

Supervised by   Sir Anees-ur-rehman
                           Assistant programmer
                           Computer Center Quaid-i-Azam
                           University Islamabad.

Estimated
Completion Date   28 December 2005

Software tool   MS ACCESS, HTML
                           ASP, ADO Technology

APROVAL

This is to certify that we have read the papers 0f project carefully submitted by Muhammad Zafran and we have found it up to the standard to warrant its acceptance by Quaid-i-Azam University for the award of Post Graduate Diploma in Computer Science.

1. External Examiner: --

2. Supervisor: --

Mr. Anees-ur-rehman
Assistant Programmer
Computer center Q.A.U.
Islamabad

DEDICATED TO

MY

GREATE TEACHERS

LOVING PARENTS

AND

THOSE WHO ALWAYS KEEPS ME
CLOSE

CHAPTER# 1

THE EXISTING SYSTEM

INTRODUCTION TO QAU.

This university was founded in 1965 as a national institution for higher learning and research and named University of Islamabad. It started with teaching and research programs for M.Phil and Ph.d. degrees. In 1970, it was decided to start M.Sc. degree programs of acceptable standards for graduate from all regions of the country, based on regional quota. The university was housed initially in rented building in Satellite Town, Rawalpindi and moved to its present premises in 1972. The university was renamed as Quaid-e-Azam University in 1976 at the time of century celebrations of the founder of Pakistan.

OBJECTIVES OF THE PROJECT

The purpose of this project is to develop a software package to fulfill the requirements of the students Affairs system of QAU. The major objective of the proposed system is to relieve the staff of doing excessive paper work and to reduce the load of maintaining huge registers.

1. More reliable and consistent data.

2. Accurate and up-to-date data available on demand at any time.

3. User-friendly interface.

EXISTING SYSTEM

Through understanding of the existing system is necessary to understand the working of the system and to know the drawbacks, deficiencies of the system to design an efficient, reliable and consistent system. So after a complete knowledge of the working of the existing system, it may be possible to develop a system which can meet the requirements of the organization. Incomplete understanding of the existing system can be error prone in newly developed system which may not be able to present the solution of shortcoming, drawbacks and flaws in the existing system, it may be possible to analyze, assemble and recommendation for system design.

WORKING OF THE EXISTING SYSTEM

The following points were observed during study of the existing system.

In the current manual system of Student Affairs, the student takes the Application Form and fills in out with along with the detail of department semester, enrollment number, name & father name. Details of the incidents, date, time & place in all acts which are to be done and behavior which he faced and expected penalties and other necessary details. These in formations to be filled out in different categories & columns of voucher.

The Victim hand it over to the Officer Incharge Students Affairs & the Secretary University Discipline Committee. And detail Inquiring of these in-formations given by Victim the committee takes its decision and finally Issues the Show Cause Notice to Accused as given below;

SHOW CAUSE NOTICE

In reference to the incident beating of M.Shoaib Hassan(3rd semest NIPS). M.Hanif(1st semester NIPS), and Liaqat Ali (1st semester NIPS) that occurred on 10-05-2005 in the east campus, QAU. I have reason to believer that you are involved in one or more of the following acts of indiscipline cognizable under University Regulations Governing Students Discipline (Approved/Revised1997) Violation of public morals such as:

- Use of indecent and filthy language,
- Undesirable remarks and gesture,
- Disorderly behavior including quarrelling , fighting and insolence towards others,
- Use of force
- Indulgence in acts which may cause insult or physical injury to the students of the university
- Spreading by word of mouth ethnic and regional conflict/hatred;
- Giving false informations, willful suppression of information, cheating and deceiving;
- Obstructing the functioning of the university; and

- Use of student organization for furthering the cause of a political/ethnic party.

Punishment or penalty of any /all above said act(s) of indiscipline may be one or more of the following and /or any other as determined by the Discipline Committee:

- Cancellation of Hostel accommodation;
- Suspension of admission and ban on entry in the premises of the university for a specified period;
- Rustication from the university for a specific period and ban on entry into university campus
- Expulsion from the university and ban on entry into university campus.

You are therefore, directed to explain in writing why disciplinary action may not be taken against you. Your reply musty reaches the office of the undersigned on or before 14-06-2005 at 11:00 hours. You are further directed to appear personally before University Discipline Committee in the office of the OISA, deptt, of Administrative Sciences to explain and provide evidence on 16-06-2005 at 12:30 hours.

In case you fail to submit a written reply an/or fail to appear personally as directed above, it would be constructed that you nothing to say and the committee shall take an Exparte decision.

G.S.K. NIAZI

Mr. Shoukat Aziz – (Histroy – M.Sc. IIIrd)

Cc: Chairman

(With the request to deliver the show cause notice to the student concerned, please)

DRAWBACKS OF THE EXISTING SYSTEM

- Final balancing of records need a lot of calculations and when done manually can be error prone and is very time consuming.

- Registers used in record keeping are large in size and are not easy to handle.

- No guarantee of data consistency.

- Storing all data needs a lot of stationary like registers, cash books, papers, pens that implies a lot of cost.

- Storage and retrieval of information makes office work quite slow.

- Since every thing is done on papers so access, modification, deletion and insertion of records take a lot of time.

CHAPTER#2

THE PROPOSED SYSTEM

INTRODUCTION

After complete study of existing system, it becomes easier to remove the shortcomings and deficiencies appearing in the existing system to meet the requirements. So the new system which is either manual or computerized brings some changes in the old or existing system. The computerized system requires designing of the system choosing relevant tool for the development of necessary software and testing of computerized database system with the test data and finally with the real data . In a computerized system electronic data processing methods are used for making the system more efficient, economical, reliable, and consistent and error free. So the purposed of student affairs system of QAU is designed after thorough evaluation of existing manual system .New techniques and procedures are adopted in the proposed system, which will meet the requirement of the organization

REQUIREMENTS OF THE NEW SYSTEM

Keeping in mind the drawbacks of the existing system, it becomes necessary to computerize the student affairs system of QAU.

1   To computerize the student affairs of QAU for quick easy retrieval of Information.

2   Preparing of reports, which are more informative, properly formatted and easy to Prepare than those of existing system.

3   Conducting various online queries on different aspects of the system using different criteria.

4   Minimizing the redundancies of data, which frequently occurs in manual system?

5   Security should be provided by the proposed system. Data entry, modification, deletion should be provided to an authorized person.

THE PROPOSED SYSTEM

This chapter gives characteristics of the proposed system. It specifies various inputs that are required to be entered and also discuss the required outputs. Design of the proposed system involves a study phase, design phase and development phase.

The following work is done in the study phase.

1   Identify the problem

2   Develop alternative solution

3   Select the most feasible solution

4   Study the system data flow diagram

The design phase includes the following steps

1   Identify the function to be performed by programming

2   perform input ,output and file design

3   prepare the documentation

following steps are included in the development phase

INPUT SPESIFICATION

There are various inputs that are classified according to their mode of entry discussed blow:

CONSTANTS INPUTS

Some inputs remain constants during working of the system. For example semester numbers and department etc.

VARIABLE INPUTS

Some input may changes each time. For example, general information of each student, date, place, and incident, what acts happened to the victim.

CONDITIONAL INPUTS

There are some inputs that depend on other inputs of some other field. For example, the registration number is allotted only if he has deposited

OUTPUT SPESIFICATION

Out put of the system are in the form of show cause notice and reports of the students, cases, acts/penalties and departments which are new to be added in the system. These outputs are to be displayed on the screen and to be copied on the paper.

SHOW SAUSE NOTICE

Show cause notice is the main output of the system which will be the displayed on the screen and also in the printed form .the format of this notice will be the same as manual but it will be seen by the accused whenever and wherever he want.

The following points are considered to be important in this notice.

- All necessary detail of the accused.

- Details of the incident

- Date /place

- Punishment announced

REPORTS

The up-to-date reports can be seen by the user whenever and where ever he want. the following reports are considered to be important for the visitor.

- Students reports who have been passed with the process.
- Acts and penalties which are new added with the system.
- Department wise report.

DATA CHECKS

To make the proposed system more reliable, efficient and consistent a check have been imposed .This check will prevent the unknown user to enter in the system.

SOFTWARE SELECTION

Software selection is also very important because it dependent upon the problem you have to solve. Different languages and packages provide different facilities that handle strongly in their way.

After a lot of consideration "Active sever pages" and "Microsoft Access" tools were selected for the development of the proposed system.

ASP is a powerful server based technology to create dynamic and interactive HTML pages. By using the ASP we will perform following important considerable functions.

- Client-side scripting with java script
- Server-side scripting with VBScript
- The ASP Request and Response objects, to communicate with the web client.
- The ASP session object, to manage a user session
- The ADO Connection, Command and Recordset objects, to manipulate information contained in a database.

MS ACCESS is a relational database to store all of the application's data. ACCESS is relatively easy to set up and deploy. According to these characteristics it was easy to choose MS ACCESS for the proposed system.

CHAPTER#3

SYSTEM DESIGN

INTRODUCTION

The design phase is most critical and challenging job during the different proceeding steps of the project. The design of the under going project is also according to the requirements of the system.

SYSTEM DESIGN

According to the requirements the application is not too much large so the design of the application is also not so complicated. During the designing phase the things which are considered more important are user friendly interface simple and reliable well understanding using methods. System design includes the following steps.

- Home page design

- Input design

- Output design

- Database design

HOME PAGE DESIGN

Home page and theme design requires more analyses about user attitude and behavior. So we have put the things which user expect. There is attempt to make dynamic page up to user wants. There are some different thing can be the part of the page during the development phase.

- University logo
- Well coming note or template
- Linked Buttons
- Introductory text or linked text to the other pages
- Top Search text area

The following sketch can easy explain the design of the page.

University logo	Welcome note and title c...		Search box
1 button 2 button 3 button 4 button 5 button	description		

INPUT DESIGN

In this project the input will be in the form of some asp forms. There are few forms below in the following system.

- Student registration form.
- New acts and penalties registration form.

- Department registration form

The design of the each form will be the following

STUDENT REGISTRATION FORM DESIGN

The design of the student registration form will be the so simple and as same as manual.

Student registration number, student name, student father name, department name, "Which will come from the 'department' table of the data base" student semester, student full address and phone number will be the necessary parts of the form.

ACTS AND PENALTIES FORM DESIGN

There will be also a separate registration form for adding new acts and penalties in the system. If an applicant needs some special kind of acts for the case registration process and he can't see these in the existing database so he has to put these in the separate registration form which will take it to the database form this can be the acts and penalties form. If a decision committee takes some decision and wants to tic some penalties which cant seen by it in the data base so first it have to register some penalties in the acts and penalties form and it will take these to the data base.

These details were to understand the purpose of this form and the design of this form will be same as the design of the student registration form name of act which some one want to enter in the system and text area can be the elements of the form for act and same procedure can apply for the penalties.

DEPARTMENR FORM DESIGN

The department registration form is for adding new department in the system the design of this form will also be the same as student form. Department name 'text' and text area for the registration of department will be the elements of the form. After registration it will take the data to the department table of the database.

OUT PUT DESIGN

There are tow types of outputs in this system.

- Notice design

- Reports design

NOTICE DESIGN

Notice means the notice which committee will announce for the accused student. The design of this notice will be the same as manual notice design which is given in the first chapter. The general sketch of the notice can be the following.

In the design of this notice the necessary student details can be the top of the notice i.e. victim's name semester department etc and then date and place where the incident took place. After this all details of the acts which have taken by the accused to the victim can be the next and then punishment announced by the committee and at last accused name and necessary details and then committee's signature on the paper

REPORTS DESIGN

- Students report design

- Cases reports design

- Acts and penalties report design

- Department report design

STUDENT REPORT DESIGN

Whenever a new student register in the system the record goes to the student table of the database and the report will also comes from the student database table. This was the necessary details of the data. The design of the report can be the just simple according to the registration number the details of the students can come from the data base and user can see all the information by scrolling the scrollbar.

CASE REPORT DESIGN

The list of all cases which have done before can be seen by the user this data also will come from the case table from the database. The design of this table can also be very simple. The date wise list of cases should there on the screen.

ACTS AND PENALTIES REPORT DESIGN

The design of this report will also be the same as above reports. All the acts and penalties which registered with the registration form can be seen by the

user in the form of acts and penalties report so the data of this report will also come from the acts and penalties tables of the access data base.Acts report and penalties report can be seen on the different screens so these two are separate reports in the system.

DEPARTMENT REPORT DESIGN

The list of all registered departments can be seen in the form of a report and the design of this report can be just type of a list or can be as same as above reports i.e. student report or acts and penalties report.

DATA BASE DESIGN

Before the designing of the data base the things which we have to keep in mind the requirements of the system and according to the requirements the environment which we have chosen for the database's ACCESS is the tool for the database in this system as mentioned in the previous chapter. The design of the tables which we have to describe here are the followings.

- Student table design
- Case table design
- Decisions table design
- Department table design
- Acts table design
- Penalties table design

STUDENT TABLE DESIGN

The design of this table is according to the requirements it means that the columns which are specified for the table are student ID, student registration

number, student name, student father name, department ID,student semester, student address one and address tow, student phone number, and an other column for identifying either student involved before in any case or not.

CASE TABLE DESIGN

The design of case table is also like the design of the student table but there is little bit difference between the specified columns of student table and case table. The columns which are specified here are case ID,accused ID,incident,and then initially eight columns for acts and four columns for penalties, when ,where, and decision. This is the initial design for the case table and according to the requirements it can be modified.

DECISIONS TABLE DESIGN

This is the important table of decisions in the database the specified columns of this table are decision ID, student registration number, nine columns for acts and four columns for penalties and date and at last another column for remarks.

DEPARTMENT TABLE DESIGN

The design of the department table is also very simple. The columns of the department table are just two first department ID and then department name.

ACTS TABLE DESIGN

The design of acts table is just like the design of the department table. The tow columns are here first is for act ID and then for the description of the act.

PENALTIES TABLE DESIGN

There is another table for all penalties which can be announced for the punishment of the student. The columns of this table are three first for penalty ID second for description and third for identifying is the penalty major or miner. So the design of the table is also very simple.

CHAPTER#4

SYSTEM DEVELOPMENT

INTRODUCTION

The system development phase comes after the system design phase. In this phase through the software purposed system converted into the working system to meet the design specification of the system. All code and relationships between different databases have been made by using different tools and technologies for the working of this system.

SESTEM DEVELOPMENT

The development of this system has not required much complicated looping statements. Some ACCESS tables are used here and some forms and pages developed by the html and ASP technology .The thing which are specified in the requirement and design phase are developed in this phase. There are some following steps in the development phase of this system.

- Development of the Home page

- Development of the Input

- Development of the Out put

- Development of the Database

DEVELOPMENT OF THE HOME

In the development of the home page macromedia's program dream weaver has used with the acceptance of the supervisor of our project .To make the comparatively close to the official website of the university there is used same bg color.Universty logo and the title of the university is the top of the page. For this purpose there is used one table covering the whole page which

have two columns and two rows. In the first column of the table there is placed university logo and the second column of the table there is placed a template.

This template is made in a program named Fire Work. This is covering some text and title and welcoming note for the front of the page. The colors used for this template are tried to match with the rest of the page.

In the second column of the first row there is also placed a little search place for searching accused student from the data base. Which can help user to identify weather a student have involved before in an misdeed activity or not. The second part of the page is consist of a big and important row where placed some linking buttons in the first column and some introductory text in the second column of this row. These two different columns having different width according to the requirements and because of these different scales of width the buttons which are placed on the second row and the first column are looked like on the left side of the page.

The column of the left side having twenty percent width and right side having eighty percent. There is another table inside the left column of the second row which is handling all the linking buttons and these all buttons are working in separate columns of the same row of this table. Each button inserted by using insert menu from the tool bar of the dream weaver envirnment.just clicking on the insert Manu and then interactive images and then on the flash button. There comes a popup window named insert flash button where all the thing which a developer can use available with build in form such as sample, style, button text, font, zise link, target, bgcolor, and browse also available for saving the button in a folder. By using these features buttons are inserted into these columns of this table. And their links also identified to the other pages. So in this way dynamical part of the page

is completed. The last column and the last row of the main table is the important and main part of the page where all the description about the project will be there.

DEVELOPMENT OF THE THEME

It was easy to develop a theme for the other pages after developing home page of the project. The dynamical part of the page is the same for theme of the project. In the second part it means in the place of introduction and description of the project there will be put other pages so in this way it will work in the form of theme for the project.

DEVELOPMENT OF INPUT

There are three main inputs to develop for the project.

- Student registration form
- New acts and Penalties registration form
- Department registration form

DEVELOPMENT OF STUDENT REGISTRATION FORM

This form is important in the whole project. It is used to collect student registration and necessary information for the system. In the development of this there is pasted title of the page by just putting the simple html code and then there is put a form for the contents of the registration of the student

.This form is covered by a table which is having eight rows and tow main columns. These rows are according to the contents of the form .In the first column of the table there are the names of the fields which a student have to put in the form i.e. registration number, student name, semester address phone number etc.and the next column of the table is for putting the text or fields of the registration form .At the end of the page there is another table for tow important buttons one is for submitting and the other is for resetting the fields. After the submitting the all data goes to the student table of the access database.Infact after the submitting the form the information adds an other form named addstudent.asp.This work is done by using ADO technologies and by setting the connections between database and the form. A connection object is created by using the name of 'cn' and a driver is created for this connection. After this the connection is opened for this driver by using 'cn.open'.For reading all the contents of the form there is another connection is established this connection is for setting the records. In this way all registration entries   can read and goes to the student table of the data base.

DEVELOPMENT OF ACTS REGISTRATION FORM

This is another form for the registration of all acts for the system which can be use in the announcement of showcase notice by the committee of the student affairs .There is almost same procedure in the development of this form student registration form there is pasted title of the page by just putting the simple html code and then there is put a form for the content of the registration for acts .This form is covered by a table which is having tow rows and tow main columns. These rows are according to the contents of the

form .In the first column of the table there is the names of the field which a member of the committee have to put in the form i.e. act or acts etc.and the next column of the table is for putting the text or field of the registration form .At the end of the page there is another table for tow important buttons one is for submitting and the other is for resetting the fields. After the submitting the all data goes to the student table of the access database. After the submitting the form the information adds another form named addact.asp. This form gets and collects the contents of the form by using the request method of the record set technology. After gathering the information or the contents of the form it goes to the table of act in the database. This work is done by using ADO technologies and by setting the connections between database and the form. A connection object is created by using the name of 'cn' and a driver is created for this connection. After this the connection is opened for this driver by using 'cn.open'.

DEVELOPMENT OF PENALTY REGISTRATION FORM

This form is for the registration of all penalties for the system which can be use in the announcement of showcase notice by the committee of the student affairs .There is almost same procedure in the development of this form as acts registration form first there is made of a title of the page by just putting the simple html code and then there is put a form for the content of the registration for penalties .This form is covered by a table which is having tow rows and tow main columns. These rows are according to the contents of the form .In the first column of the table there is the name of the field which a member of the committee have to put in the form i.e. penalty or the name of penalty etc.and the next column of the table is for putting the text or

field of the registration form .At the end of the page there is another table for tow important buttons one is for submitting and the other is for resetting the fields. After the submitting the all data goes to the student table of the access database. After the submitting the form the information adds another form named addpenalties.asp. This form gets and collects the contents of the form by using the request method of the record set technology. After gathering the information or the contents of the form it goes to the table of penalty in the database. This work is done by using ADO technologies and by setting the connections between database and the form. A connection object is created by using the name of 'cn' and a driver is created for this connection. After this the connection is opened for this driver by using 'cn.open'.In this way the development of this form completes.

DEVELOPMENT OF NOTICE

In the first part of the development of notice there is developed a form for putting all the contents of the notice. Before this form there is some simple html code for main title of the page. The form begins with first three dropdown menus. The first is for department which is gathering the data from department table and the second dropdown is for semester of the student .After selecting the department and semester of the student the names of students with the relative department and semester will be there. This work is done with ADO technology .After these three dropdowns there is a text area with the name of incident .All details of the incident which is happened with the victim can be put there then the tow textboxes for the date and place are there and then a heading for acts And nine checkboxes and their details and a heading for penalties and four checkboxes for their details.

And at the end tow buttons one for resetting and the other to see the notice. According to this format the page will be set. After pressing the notice these all information will be sent on the other page which will show it in the form of a notice. This notice will be as it is as the manual one but it can be seen on the screen.

REPORTS DEVELOPMENT

- Student report development

- Acts report development

- Penalties report development

- Department report development

STUDENT REPORT DEVELOPMENT

This output will be in the form of screen for the user. All the necessary information which is given by the student registration form to the database i.e. name of student department, semester, address .phone number and other information can be seen in the form of student report. In the development of this report the main title of the report is given in the simple html code and the rest of the information is collected from the student table and the department table for this purpose there was a need of a query established between the student table and department table of the database. So the

require query is made in the access database but to collect these information from the query there was a need of connection between them. This work is done by using the ADO technology and the sql command and by using the do until loop and response. Write object the all information is written on the report page.

ACTS REPORT DEVELOPMENT

All the registered acts which is given by the acts registration form to the database can be seen in the form of act report. In the development of this report the main title of the report is given in the simple html code and the rest of the information is collected from the acts table of the database for this purpose there was a need of connection between database table and the form. This work is done by using the ADO technology and the sql command and by using the do until loop and response. Write object the all information is written on the report page.

PENALTIES REPORT DEVELOPMENT

All the registered penalties in the system which is given by the penalty registration form to the database can be seen in the form of penalty report. In the development of this report the main title of the report is given in the simple html code and the rest of the information is collected from the penalty table of the database for this purpose there was a need of connection between database table and the form. This work is done by using the ADO technology and the sql command and by using the do until loop and

response. Write object the all information is written on the report page. After putting all this code in the page is saved by the name of penaltyreport. asp.

DEPARTMENT REPORT DEVELOPMENT

All the registered departments in the system which is given by the department registration form to the database can be seen in the form of department report. In the development of this report the main title of the report is given in the simple html code and the rest of the information is collected from the department table of the database for this purpose there was a need of connection between database table and the form. This work is done by using the ADO technology and the sql command and by using the do until loop and response. Write object the all information is written on the report page. After putting all this code in the page is saved by the name of departmentreport. asp.

DATABASE DEVELOPMENT

In the database section there is the need of six tables and a query for this system the names of tables and their sketches and their details are below.

- Student

- Case

- Decisions

- Department

- Acts

- Penalties

And a query between student and department tables

DEVELOPMENT OF STUDENT TABLE

To save all necessary information of the student there was need of a student table for the system. This table is developed by clicking on the design Manu in the access environment and then clicking on the new manu there was present a design view of a table where by putting the data type field name and description if needed the student table is developed after saving it by its name. The detail sketch is below.

Field Name	Data type	Description
Student ID	Number	
Student registration number	Text	
Student name	Text	
Student father name	Text	
Department ID	Number	
Semester name	Number	
Adress#1	Text	
Adress#2	Text	
Phone number	Text	
Involved before	Yes/no	

DEVELOPMENT OF THE CASE TABLE

This table is gathers all case details of each accused student the details of the fields and their data type is given below. This table is developed by clicking on the design Manu in the access environment and then clicking on the new menu there was present a design view of a table where by putting the data type field name and description if needed the case table is developed after saving it by its name. The detail sketch is below.

Field Name	Data type	Description
Case_ID	AutoNumber	
Accused_ID	Text	
Incident	text	
Act1	text	
Act2	Text	
Act3	Text	
Act4	Text	
Act5	Text	
Act6	Text	
Act7	Text	
Act8	Text	
When	Date/time	
Where	Text	
Penalty1	Text	
Penalty2	Text	
Penalty3	Text	

Penalty4	Text	
Decision	Text	

DEVELOPMENT OF THE DECISIONS TABLE

This table is all about the decisions taken by the committee for accused student all decisions details for each accused student can be saved at this table. This table is developed by clicking on the design Manu in the access environment and then clicking on the new menu there was present a design view of a table where by putting the data type field name and description if needed the decisions table is developed after saving by its name.

Field Name	Data Type	Description
Decision ID	Auto Number	
Registration number	Text	
Act1	Text	
Act2	Text	
Act3	Text	
Act4	Text	
Act5	Text	
Act6	Text	
Act7	Text	
Act8	Text	
Act9	Text	
Penalty1	Text	

Penalty1	Text	
Penalty1	Text	
Penalty1	Text	
Date	Date/time	
Remarks	Text	

DEVELOPMENT OF THE ACT TABLE

The all acts description of the system can be saved at this table. This table is developed by clicking on the design menu in the access environment and then clicking on the new menu there was present a design view of a table where by putting the data type, field name and description if needed the Acts table is developed after saving it by its name. The detail sketch is below.

Field Name	Data Type	Description
Act ID	Auto number	
Act Description	Text	

DEVELOPMENT OF THE PENALTIES TABLE

The all penalties description of the system can be saved at this table. This table is developed by clicking on the design menu in the access environment

and then clicking on the new menu there was present a design view of a table where by putting the data type, field name and description if needed the Acts table is developed after saving it by its name. The detail sketch is below.

Field Name	Data Type	Description
Act ID	Auto number	
Penalty description	Text	

DEVELOPMENT OF THE DEPARTMENT TABLE

The all departments name of the system can be saved at this table. This table is developed by clicking on the design menu in the access environment and then clicking on the new menu there was present a design view of a table where by putting the data type, field name and description if needed the department table is developed after saving it by its name. The detail sketch is below.

Field Name	Data Type	Description
Department ID	Auto number	
Department name	Text	

CHAPTER#5

TOOLS DESCRIPTION

DYNAMIC AND STATIC WEBPAGES

If you surf around the Internet today, you will see that there are a lot of static web pages out there. A static web page is essentially a page whose content consist of some HTML pages that was typed directly into a text editor and saved as an HTM or HTML file. Thus the author of the page has already completely determined the exact content of the page.

If we want to enhance our page so that it displays the current time or a special message that is personalize for each user. It will not be possible using HTML alone.

ACTIVE SERVER PAGES (ASP)

Active Server Pages is a technology that allows for the programmatic construction of HTML pages just before they are delivered to the Browser. In other words ASP we can write a set of instructions that can be used to generate HTML, just after the web page has been requested by a client, and just before it delivered .It is a perfect tool for any HYML write to add to the toolkit, because it gives us the power and flexibility to generate fresher HTML and ultimately to reduce more spectacular, interactive, personalized, up-to-date web pages.

How can we describe ASP? It is not a language like other high level languages like (Pascal & C++) although it does make use of existing scripting languages such as VB Script and Java script, more ever it is not really an application like Front page and MS Word, Instead we describe ASP using rather a more ambiguous term technology.

NOTE PADE

Certainly helps in sustaining its popularity it does not highlight the ASP in any way and also it doesn't generate any extra code even having less additional functionality. It is still very popular in use due to its simplicity and less complexity in Windows 2000. Notepad offers a "Goto" feature, which helps in quickly moving around the document using the line number.

SCRIPT

We do identify the script when it is embedded in a small or large amount of pure HTML? Because the ASP which will be enclosed in a special tag < %..........%>

ALTERNATIVES TO ASP

ASP is only one of several technologies that can be used to create more dynamic and interactive web pages. Microsoft is not the only organization pulling in the direction of interactive web sites many of its competitors are also chipping away at the boundaries of interactive web capability.

Interactive web sites can be build with a combination of languages and technologies you can use any one of these alone, or any number of them together and they are all independent. Some exist on the client side while other on server side.

ASP OBJECT MODEL

In the Active Server Pages programming model, there is a wide range of functionality that is access able to the programmer. ASP helps us to track the site of a user dynamic generate HTML output and take data from forms to be

inserted into a data base. All of the functionality makes ASP a rather complex beast. Microsoft was task with finding the best compromise between offering a simple programming model and providing access to all of the power that ASP provides. These objects were then related together into what is known as an object model.

OBJECT MODEL STRUCTURE

Seven objects make up the core of Active Server Pages. These are known as the built-in objects. These objects are:

- Server Object

- Application Object

- Session Object

- Request Object

- Response Object

- Object Context Object

- ASP Error Object

Each of these objects interacts with the different parts of the ASP system. This chart shows how they are related to each of them, and how they are related to the client and the server.

ADO

that allow programmers to program their data access login from languages and scripting languages. ADO is a high level model than OLE-DB, which means that it simplifies some of the complexities of programming which OLE-DB thus, ADO is much easier to use than OLE-DB.

How thus ADO fit into over all structure? The ADO layer sit neatly between the application itself and the OLE-DB layer.In this sense we can think of ADO as being as application-programming interface. ADO is a superset of DAO and ADO is much easier to understand.

ADO ARCHITECTURE

In the ADO model there are five objects

- Connection
- Command
- Record set
- Record
- Stream

The connection object sets up the connection to the data source. First the data source name, its location, user id, password is stored in a connection string object, which is passed to the connection object to establish z connection to the data source. The command button is used to execute the SQL commands, queries and stored procedures. When a query is executed it returns results that are stored in the Record set object. Data in a record set is manipulated and then updated to the database.

Records allow you to handle data kept in semi structured storage (such as files in a directory structure) as through they were record in a database.

The stream object is used to access the contents of the node, such as an Email message, or a web page.

ADO AND ASP

Don't fall into the trap of assuming that ADO is a part of ASP or that it is designed specifically for use with ASP. It is true to say that ADO is the ideal tool to use for achieving data access from ASP pages and that Ado is shipped as part of the HS 9.0/ASP 3.0 package. But ADO is more generic than that .If you are planning to write other data – dependent applications such as Visual Basic, Java, VC++, there is nothing to stop you from using ADO is those application too.

Infect you can use ADO with any COM complaint programming language, so where does ADO come from? Infect ADO is one of a suite of components, which are known collectively as the Microsoft Data Access Components (MDAC). This sort of components has enjoyed a release schedule that a separate to that of HS/ASP.

CAHAPTER#6

SCREENS

http://localhost/showcause/studentlist.asp - Microsoft Internet Explorer

File   Edit   View   Favorites   Tools   Help

Back | Search   Favorites   Media | Address   Links

List of all students

Student ID:MSC-123-2005
Student Name:Arsalan Aziz
Student Father Name:M. Azeem
Student Department:Physics
Student Semester:2
Student Ph#:0333517649
Involved (Y/N):False

Student ID:01276353
Student Name:Mnser Mehmood
Student Father Name:Fazel Hussain
Student Department:Computer Science
Student Semester:3
Student Ph#:0333 76459
Involved (Y/N):False

Student ID:MSC-231-2001
Student Name:Mazoor Ahmed

Done   Local intranet

start   3½ Fl...   Doc1 - ...   Intern...   http://l...   10:42 AM