

ARCADE BUSINESS COLLEGE

RAJENDRA NAGAR, PATNA-16. (WWW.ABCOLLAGE.ORG)

(AFFILIATED TO PATLIPUTRA UNIVERSITY)



SESSION: 2018-2021

COURSE PROJECT MANAGEMENT SYSTEM

PROJECT ID : PRJ2032H

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TITLE

COURSE PROJECT
MANAGEMENT SYSTEM

ARCADE BUSINESS COLLEGE

ACKNOWLEDGEMENT

We express our gratitude to the Head Of Department and Arcade Business College at Rajender Nagar Patna.

Honourable Mrs Anupam Singh, who complimented and felicitated for developing software on Course Project Management System.

We are grateful to Mr Ashish Adarsh, Director of Arcade Business College. Who has always acted as a source of encouragement.

Special thanks to Anuj sir, who motivated and help us in making of project and thanks to Anupam mam who gave us all the required data which are used in project for creating software and she also help us more than expected.

We are indebted to all colleagues' friends and students who helped at the time of making module and testing in coding. We are very grateful for our group member who always supports in making a best project.

We appreciate the help and support provided by all the students, faculty and non-teaching staff of this college as well as that of other friend who have directly or indirectly added value to this project

DECLARATION

We solemnly declare that the project work entitled “**COURSE PROJECT MANAGEMENT SYSTEM**” is based on our own work carried out during the course of our study under the supervision of **Mrs. Anupam Singh, Head of Department of BCA course of ARCADE BUSINESS COLLEGE.**

I assert the statements made and conclusions drawn are an outcome of our analysis work. I further certify that

- I. The work contained in the report is original and has been done by us under the general supervision of Mrs. Anupam Singh.
- II. The work has not been submitted to any other institution for any other degree or certificate.
- III. We have followed the guidelines provided by the university in writing the report.
- IV. Whenever we have used data and theoretical analysis from other sources, we have given due credit to them.

GAUTAM KUMAR

HIMANSHU RANJAN

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INTRODUCTION ABOUT ORGANIZATION

Arcade Business College situated in Patna. It was established in 1998. it was affiliated to Magadh University and transferred to Patliputra University in year 2018.

Arcade Business College, Rajendranagar, offers two courses 'BCA(Bachelor in Computer Application)' & 'BBM(Bachelor in Business Management)' which are under graduate program. In the syllabus of BCA third year of Patliputra University, there is an honours paper about making of software which must be live that means topic must be existing.

In this existing system grading system is implemented through register. The process of existing system is followed:

- Student submitted their group topic and group member details.
- Project id provided to the group.
- Assignment is given to the student.
- Student submitted their synopsis in given time.
- Student provided their marks and grade on the basis of their performance.

In this project the student of third year will make a group of maximum four student and minimum two student. Not any student can transfer the batch for creating a group. Each group gives a topic of project which must be existing that means live project. In each group there is one group leader. The group leader authorised to remove that student who does not contribute in making a project. In this project there is PROJECT ALLOCATION FORM. In this form the group leader gives the detail of his member of their group, their roll number including registration number with name and mobile number. Also they mention their topic of live project and for verification address should be mentioned. In this management system the Head Of Department and the external who come to check this project gives the grade of live project and also the members of project on their contribution and conceptual performance.

In this project out of four members of a group there is one group leader who filled the project allocation form. In project allocation form there is project group id which is given by the Head Of department on the BCA department in this form the group leader name is filled in first row of member detail table. The group id is assigned at the time of receiving this project allocation form. In this allocation form the 'course is BCA', 'session is 2018-2021' and 'batch is BCA 3-1 and BCA

3-2 and BCA 3-3'. The project title and its company name should be name of your existing software like Hospital management system / Tally / Hotel management system .

The developing of this existing software is under the guidance of teachers. Those who received this project is checked every detail must be in proper format. If any details is missed then it rejected and

Send for recorrect the details in proper format. This project management system holds the record every BCA third year student's project details, ER diagram, DFD diagram, and synopsis of project. This project holds the record of project proposal and letter form of every students project details.

This Course Project Management System also holds the grading system according to performance of student on their project management system. The grading system is to provide grades in proper stages. when student submit their assignment on the time and according to their performance the grades are given. The grades are given on five stages likes when submission of student's project introduction and limitation on time, the synopsis of project of students project and many more stages.

This project management system is created on Visual Basic 6.0 which is front end and Oracle 10g which is back end.

SYSTEM ANALYSIS

System analysis is a process of gathering and interpreting facts, diagnosing problems and the information about the Course Project management system to recommend improvements on the system. It is a problem-solving activity that requires intensive communication between the system users and developers. System analysis or study is an important phase of any system development process. The system is study to the minutest detail and analyzed. The system analyst plays the role of the interrogator and dwells deep into the working of the present system. The system is built as a whole and the input to the system are identified. The output from the organisations are traced to the various processes. System analysis is concerned with becoming aware of the problem, identifying the relevant and decisional variables analysing and synthesizing the various factors and determine an optional or a list a satisfactory solution or program of action. A detailed study of the process must be made by various techniques like interviews, questionnaires etc. the data collected by these sources must be scrutinized to arrive at a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to redundancy and paper work load in course project management system. The designer now functions as a problem solver and tries to sort out the difficulties the enterprise faces. The solutions are given as proposals. The proposal is then weighted with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made.

This is a loop that ends as soon as the user is satisfied with proposal. preliminary study is the process of gathering and interpreting facts, using the information for further study on the system. Preliminary study is a problem solving activity that required intensive communication between the system user and developers. it does various feasibility studies. In these studies a rough figure of the system activity can be obtained, from which the decision about the strategies to be followed for effective system study and analysis can be taken.

Now a day we do all work with computerized system but with the current system is very complicated to keep the track of all registers and handle them manually. As well as this work is time consuming and also expensive in this system report work may not accurate and not fastest.

DRAWBACK OF CURRENT SYSTEM

- Time consuming
- More expensive
- Searching Problem
- Maintains Problem of all registers
- Less accuracy
- Problem for making of not normal value
- More stationary
- Display multiple reports

Advantages of computerised system

- Time saving
- Less expensive
- Powerful searching
- Solves the problem of maintains register
- More accuracy
- Easy generate reports
- Less redundancy

LIMITATION OF THE EXISTING SYSTEM

After observing existing system there is so much drawbacks in this system that's why a software is needed to create. Let's see those drawbacks:

More paper work

In this management system more paper requires to maintain the record. Even a single paper is lost or damaged led to difficulty because all the records are stored in paper and these records are connected with each other. We have to keep more files of different different process like for student detail makes a file of batch wise and maintain the receiving process that means which group submit their details or which group not submit their details.

Time Consumption

In this existing system every work performed on papers manually and due to paper work it takes more time to maintain each file. If any fault occurred in a file then to make a new file is also a more time taking process. In traversing or searching process of details of any one student it is also more time consumption.

Updation or Modification

In this existing system, to modify and updation in data we have to make a new files to store updated data. If we want to insert the new student detail we have to put the details in the last and we can't sort them. For sorting of data we have to make a new file which is more time taking and for deletion same problem is occurred.

Wastage of human resource

Since every work performed on paper so to maintain record, to insert record, to delete record that means to update record every time more time is waste and to perform these operation human resource also waste.

Retrieval of data is slow

In this existing system there are lot of paper work so to search required files it takes so much time. Since there are so many papers then to retrieve the files and to update them it takes so much time that's why retrieval of data is slow.

Duplicity and Redundancy problem

Since every work performed on paper manually in this existing system and every record maintain by human. So it is very high chances of insertion of duplicate record. As we know that this updation is performed by human that's why same data can be inserted so many time.

Security

In this existing system there is no safety of information since everything is in human hands to access of data. Any one can access this data since it is in paper. So any one can see the details there is more chance to lost of them but in software it is very secure as we give login id and password to open the file in the software. In the software only authoriser can access or update the details of student but in existing system it can't be possible because every thing is in paper. Unauthorised person can also see it. But in software unauthorised people can't see them.

Easy to carry

Since in this paper work system it makes a heavy burden to carry files from one place to another place. This is very risky process but in the use of software, it is very easy to carry software because we can store it in CD or Pendrive but we can't easily carry existing system.

OBJECTIVE

In existing system, there are so many drawbacks. as we know that this system is handled manually which results in more paper work. More paper work is main drawback of the existing software. Time consumption make this existing system slow and clumsy. We make changes in this existing system to overrule its drawbacks. now we going to computerized this existing software let's see these changes which make this slow and clumsy existing system into a desirable software.

- Since system is computerized so problem of more paperwork is solved.
- Data is more reliable because system is not handled manually and duplicity of data is well handedly by computer.
- Security problem is solved in this software as we generate user id and password, those who have user id and password can only access the data.
- Data processing time is high, since system is computerized so data processing time is also increased.
- Updation and deletion of data becomes easy.
- Retrieval of data in this system becomes high since it is computerized.
- Since this software is user friendly so it is easy to use.
- Now the paper load reduced due to computerization so it is easy to handle system.
- Time consumption is low because accessing and retrieving of data becomes fast..

FEASIBILITY STUDY

Feasibility study is used to determine whether or not a project is worth doing. This phase is necessary to decide whether to proceed or cancel the proposed project. This study is carried through several level concentrating on different aspects.

1) Technical feasibility: It concerned with whether existing software, equipment, personals are sufficient for the proposed project or it needs to develop new software or equipment with concentration on cost and benefits. Generally technical needs of a system include–

- The facility to produce outputs in a given time.
- Response time under certain condition.
- Facility to communicate data to distant location.

During the feasibility study regarding to my project, we examine the existing system configuration and compare it with two different configurations on cost and requirement basis. First, we consider that what speed of input and output is required then how many units operates and types of a system.

2) Operational feasibility: It is related to human, organizational, and political issue like-

- Will the new system(software) used, if developed and implemented?
- What changes will be brought with the system?
- What organizational structures are disturbed?
- Do the existing staff members have these skills?

3) Economical feasibility: It has great importance in project because it is related to cost and sufficient benefit environment. In our project during analysis first we calculate overall expected cost with alternative approaches and benefit achieved.

Estimation of cost:

It basically gives the rough estimate about the development and overall cost of the software.

LOC: Line of code

Unit: KLOC (Thousand line of code)

- **Total Modules = 6**
- **Functional point per form = 5**
- **Total functional point = $6 \times 5 = 30$**

- **LOC per hr. = 45**
- **Total LOC = $30 \times 45 = 1350$**

- **Total hr. = $1350 / 45 = 30$ hr.**

- **Effort (cost) / hr. = 55.65**

- **Total cost = $30 \times 55.65 = 1669.5$**

- **Testing cost (25%) = $1669.5 \times 25 / 100 = 417.375$**

- **Total cost = $1669.5 + 417.375 = 2086.875$**

- **Extra exp = 986**

- **Total cost = $2086.875 + 986 = 3072.875$**

- **Profit (12%) = $3072.875 \times 12 / 100 = 368.745$**

- **Final cost = $3072.875 + 368.745 = 3441.62$**

- **Grand total = 3442.00**

These are some other feasibility we have less importance in comparison with above mention feasibility. This feasibility requires less concentration or these are optional as I think, so I have less concentration on this feasibility like time feasibility, legal feasibility, social feasibility etc. time feasibility determines whether project is developed and implemented within the define time. The proposed system must follow all the acts and statutes which is determined.

Project planning

S no.	Phases	Members	Total days
1.	ANALYSIS <ul style="list-style-type: none">• DATA GATHERING• FEASIBILITY STUDY• COST BENEFIT ANALYSIS• PROJECT PROPOSAL	Himanshu Ranjan and Gautam Kumar	36
2.	DESIGN	Himanshu Ranjan and Gautam Kumar	9
3.	CODING	Himanshu Ranjan and Gautam Kumar	18
4.	TESTING	Himanshu Ranjan and Gautam Kumar	22
5.	IMPLEMENTATION	Himanshu Ranjan and Gautam Kumar	2
6.	DOCUMENTATION	Himanshu Ranjan and Gautam Kumar	3

TOTAL DAYS = 90

- ANALYSIS = 40% = 36 days
- DESIGN = 10% = 9 days
- CODING = 20% = 18 days
- TESTING = 25% = 22 days
- IMPLEMENTATION = 2% = 2 days
- DOCUMENTATION = 3% = 3 days

HARDWARE AND SOFTWARE REQUIREMENTS

HARDWARE REQUIREMENTS:

- CPU – 1ghz
- RAM – 512MB or above
- HARD DISK – 10GB or above
- DISPLAY – (800 * 600) capable video adaptor and monitor

SOFTWARE REQUIREMENTS:

- OPERATING SYSTEM - windows 7
- FRONT END - Visual Basic 6.0

BACK END - Oracle

INTRODUCTION TO VB 6.0

Visual Basic is a part of the Microsoft visual studio and we can develop application of stand-alone computer system. We can create our own controls. Visual Basic is closely integrated with microsoft's database tools.

Microsoft Visual Basic is one of the tools available for faster and easier creation of application for MS Windows. Visual Basic provides a complete set of tools for rapid application development.

The flexibility of Visual Basic is one of the reasons for its success, another is that the language is straight forward to use, with a much less difficult syntax than most other language.

“Visual” in visual basic refers to the method used to create the graphical user interface (GUI). Rather than witting many lines of code for the appearance and location of interface elements used in program, we can simply add pre-built objects on the screen. If we have to drawing a program such as paint, we have already a created effective Visual Basic application.

The “Basic” in visual basic refers to popular known BASIC (Beginners All-Purpose Symbolic Instruction Code) language, used by many programmers. Visual Basic has thus evolved from the original BASIC language and now contains several hundred statements, functions, and keywords, many of which relate directly to the Windows GUI. Beginners can create application by learning just a few of the keyword. At the same time, the power of the language allows professional to accomplish any-thing that can be accomplished using any other Windows programming language.

VISUAL BASIC 6.0 editions

Microsoft have produced three different version of visual basic 6.0:

- The learning edition is suitable for small-scale developments. It has all the intrinsic controls and a number of additional controls such as grid and data bound controls.

- The professional edition has many additions ActiveX controls, integrated database development tools, the DHTML, page Designer. Additional documentation is provided to cover these additional features.
- The enterprise edition is designed for developers working in a team environment. It includes the back office tools such as SQL server, Microsoft Transaction server, Visual Sourcesafe and numerous other tools.

What computer need to run Visual Basic 6.0?

Computers are never fast enough, and so the faster computer is better in result .if we are a professional developer or the cost of our computer is not issue then we will obtain excellent performance with:

- Intel Pentium III 500.
- 128Mb of memory.
- 17” monitor.

Realistically, though Visual Basic is not particularly demanding in its hardware requirements and reasonable performance for smaller applications can be obtained with a much slower machine with less memory. The minimum specification for reasonable performance is :

- Intel Pentium 150.
- 32mb of memory.
- 15” monitor.

Selection of visual Basic based on following strengths:

- Fast and easy prototyping and GUI building.
- Fully functional, real window application building.
- Excellent DDE and DDI support and client OLE.
- MDI support.
- Easy dialog box construction.
- Easy menu generation including shortcut keys.

Some components of VB are:

- Standard Exe
- ActiveX Exe
- ActiveX DLL
- ActiveX Control
- Data Project
- DHTML Application
- VB Enterprise Edition Control

VB 6.0 interface consist of a Form,Toolbar,Toolbox Menu, Menu bar, Project Explorer and Project window. VB 6.0 consists of virtual programming steps and involves designing its application & a ode programming steps that involve coding. VB 6.0 uses building blocks such as Variables, Data File, Procedures, and Function & Control Structure in its programming environment.

VB 6.0 has an intelligent interpreter, Editor that often detects error and even suggests the changes to correct routine programming.

Some features are:

- Use friendliness.
- Easier comprehension.
- Faster application development.
- Introduction to ActiveX Technology.
- Develop robust stand-alone application, games and utilities in less time that t taken in other language.

Oracle 10g

Oracle is a product from oracle corporation, that provides a relational database management system. Oracle's RDBMS supports any kind of data models, and has different product editions such as

- Standard edition
- Enterprise edition
- Express edition
- Personal edition

Among which the user gets to choose the database system depending on their need. Oracle products are scalable and secure.

Oracle is a multi-model relational database management system, mainly designed for enterprise grid computing and data warehousing. It is one of the first choices for enterprises for cost-effective solutions for their applications and data management. It supports SQL as query language to interact with the database. Currently its database comes in five different editions based on the features available.

- **Standard edition one:** It is suitable for single-server or highly branched business applications with limited features.
- **Standard edition:** It delivers all facilities provided in standard edition one. In addition, it provides larger machine support and oracle real application clustering service.
- **Enterprise edition:** this edition is packed with features like security, performance, scalability, and availability, required for highly critical applications in which online transaction processing is involved.
- **Express edition:** It is an entry level edition that is free to download, install, manage, develop and deploy.
- **Personal edition:** It comes with the same features of enterprise edition except oracle real application clustering.

Features of Oracle

An oracle database offers the following features to meet the requirements of powerful database management.

- Scalability and performance
- Availability
- Backup and recovery
- Security
- **Scalability and performance:** Features like real application clustering and portability make an oracle database scalable according to the usage.
- **Availability:** Real-time applications require high data availability. High performing computing environments are configured to provide all-time data availability. Data is available during the time of planned or unplanned downtimes and failures.
- **Backup and recovery:** Its layout complete recovery features to recover data from almost all kinds of failures. In case of failure, the database needs to be recovered within no time for high availability.
- **Security:** Securing the data is always the top priority. Oracle provides mechanisms to control data access and usage. Implementing authorization and editing user actions can prevent unauthorized access and allow distinct access to the users.

Benefits of oracle

Features mentioned above give oracle an edge over other competitors. Let's see advantage of oracle.

- **Performance:** It has methodologies and principles to achieve high performance. We can implement performance tuning in its database to retrieve and alter data faster, in order to improve query execution time and hence application operations.
- **Multiple database:** Its database supports managing multiple database instances on a single server. Instance caging method is provided by oracle to manage CPU allocations a server running the database instances.

- **Edition:** Different editions which are offered by Oracle, it gives benefit to the user to purchase edition as per their application requirements.
- **Clusters:** It uses real application clusters to provide a high data availability system. The database with RAC has benefits over traditional database servers.
- **Failure recovery:** RMAN (recovery manager) is the feature of an oracle DB which recover or restore the database files during downtimes and outages. It supports online, archived backups and continuous archiving.
- **PL/SQL:** The database supports PL/SQL extension for procedural programming.

PERLIMINARY INVESTIGATION

The first step in the system development life cycle is the preliminary investigation to determine the feasibility of the system.

The purpose of the preliminary investigation is to evaluate project requests. It is not a design study nor does it include the collection of details to describe the business system in all respect. Rather, it is the collecting of information that helps committee members to evaluate the merits of the project and make an informed judgment about the feasibility of the proposed project. Analysts working on the preliminary investigation should accomplish the following

objectives:

- ❖ Clarity and understand the project request.
- ❖ Determine the size of the project.
- ❖ Access costs and benefits of alternative approaches.
- ❖ Determine the technical and operational feasibility of alternative approaches. Report the findings to management, with recommendations.

ARCADE BUSINESS COLLEGE www.abcollege.org (An Educational Institution registered under Indian Trusts Act, 1881, Affiliated to Patliputra University, Patna)	
PROJECT CERTIFICATE	
This is to certify that the team of 2 students of Bachelor of Computer Application (BCA) of Academic Session 2018 -2021 have successfully completed a Project Work entitled "Course Project Management System" (Group ID PR[2032H]) in Visual Basic & Oracle for the award of BCA degree by Patliputra University.	
Mr. Sushil Kumar (Lab in-charge)	Mrs. Anupam Singh (HOD – Computer Science)
College Seal	
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SOFTWARE ENGINEERING PARADIGM APPLIED

Software paradigm refers to method and steps, which are taken while designing the software programming paradigm is a subset of software design paradigm which is future for other a subset of software development paradigm. Software is considered to be a collection of executable programming code, associated libraries, and documentation. Software development paradigm is also known as software engineering, all the engineering concepts pertaining to developments software applied. It consists of the following parts as Requirement Gathering, Software design, Programming, etc. The software design paradigm is a part of software development. It includes design, maintenance, programming.

Software Development Life Cycle :

SDLC is the acronym for software development life cycle. It is also called the software development process. All the tasks required for developing and maintaining software. It consists of a plan describing how to develop, maintain, replace and alter the specific software. It is a process for planning, creating, testing, and information system. It is a framework of describes the activity performed at each stage of software development. It is a process used by a system analyst to develop an information system including requirements, validation, training, and ownership.

Benefits of software development life cycle :

1. It allowed the highest level of management control.
2. Everyone understands the cost and resources required.
3. To improve the application quality and monitor the application.
4. It performs at every stage of the software development life cycle.

Different types of software development life cycle models:

There are various software development life cycle models. These models are referred to as the software development process models. The models defined and designed which followed during the software development process.

Water Fall Model:

The waterfall model is easy to understand and simple to manage. The whole process of software development is divided into various phases. The step of requirements analysis, integration, maintenance.

2. Iterative Model:

It is repetition incarnate. In short, it is breaking down the software development of large applications into smaller pieces.

3. Spiral Model:

It helps the group to adopt elements of one or more process models. To develop strategies that solve uncertainty and risk

4. V - Model:

It is known as the verification and validation model. It is characterized by a corresponding testing phase for the development stage. V model joins by coding phase. It focuses on all types of resources in software development and coding. Small project with smaller size development team which are working together.

Stages of SDLC model :

Here, we will give you a brief overview of SDLC stages as follows.

Stage-1: Requirement gathering –

The feasibility report is positive towards the project and next phase start with gathering requirement from the user. Engineer communicates with the client and end-users to know their Idea and which features they want to software to include.

Stage-2: Software design –

It is a process to transform user requirements into a suitable form. It helps programmers in software coding. There is a need for more specific and detailed requirements in software. The output of the process can directly be used in implementation in a programming language. There are three design levels as follows.

1.Architectural Design:-

It is the highest abstract version of the system. In a software system, many components interact with each other.

2. High Level Design:-

It focuses on how the system along with all its components and its can be implemented in form of modules.

3.Detailed Design:-

It defines the logical structure of each module and its interface to communicate with each module

Stage-3: Developing Product –

In this phase of SDLC, you will see how the product will be developed. It is one of the crucial parts of SDLC, It is also called the Implementation phase

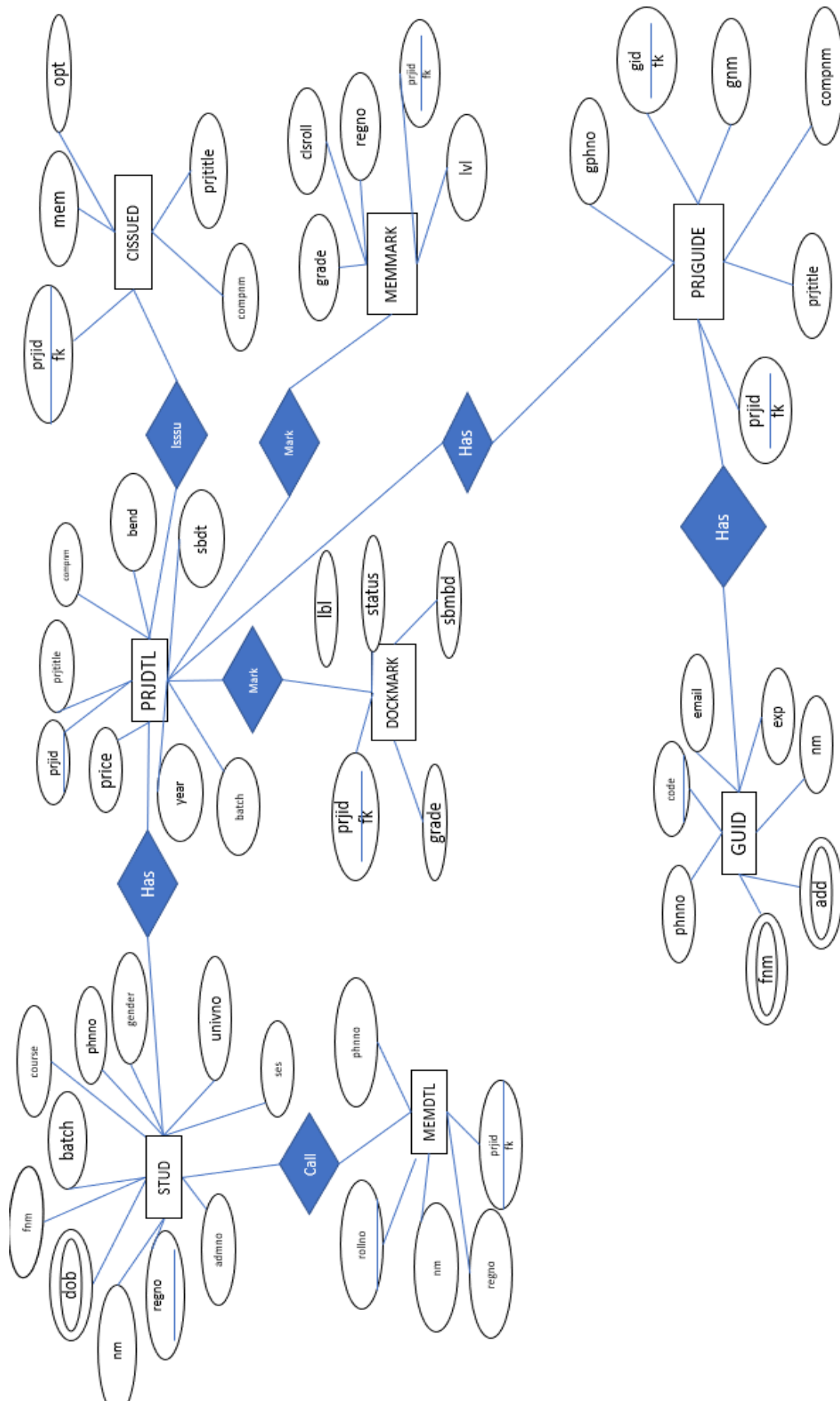
Stage-4: Product Testing and Integration –

In this phase, we will integrate the modules and will test the overall product by using different testing techniques.

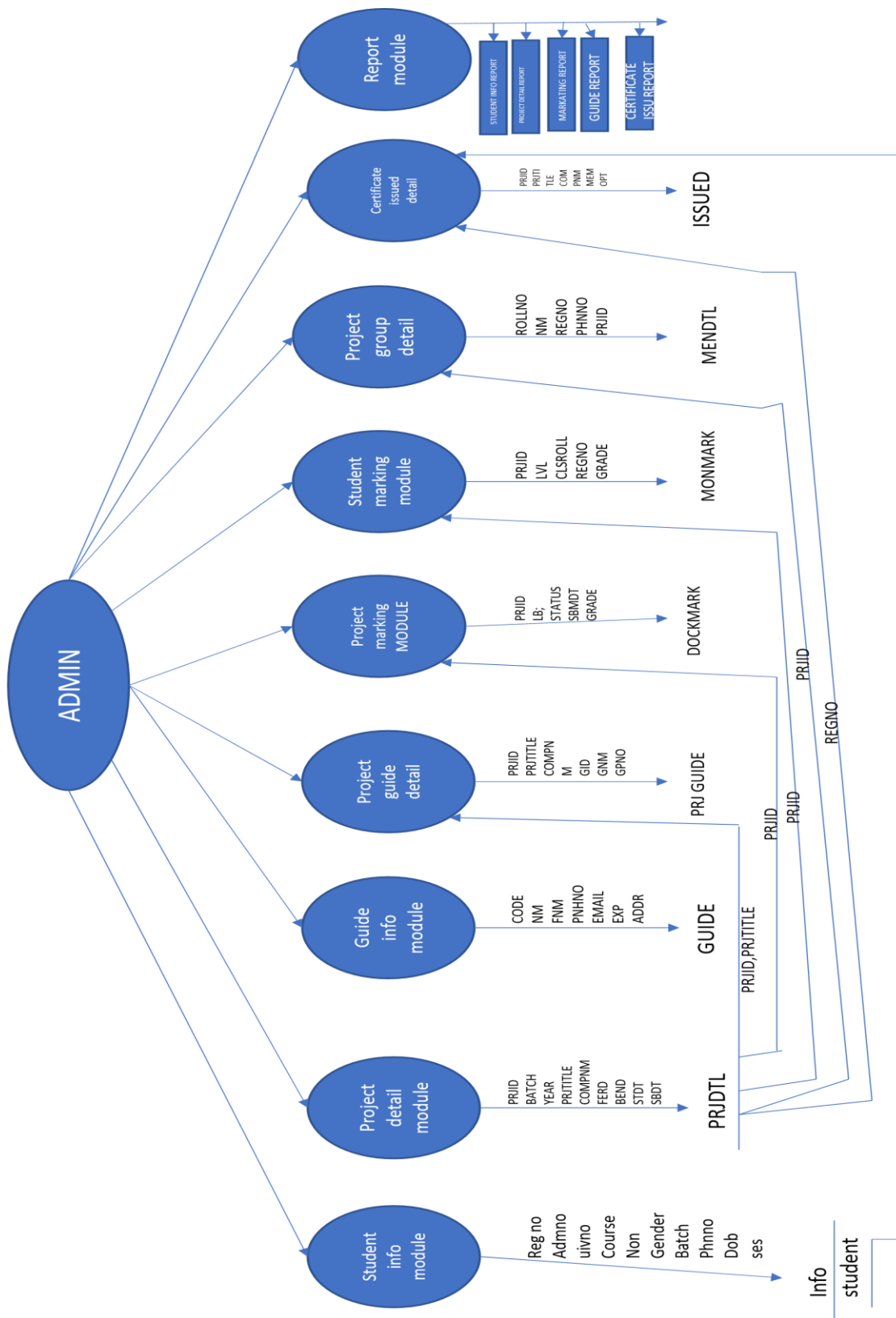
Stage-5: Deployment and maintenance –

In this phase, the actual deployment of the product, or you can say the final product will be deployed, and also we will do maintenance of product for any future update and release of new features

E-R DIAGRAM



DATA FLOW DIAGRAM (DFD)



MODULE DESCRIPTION

1. Student Management Module

It is very important and beginning module which describes the detail of student. In this module we call the detail of the student from excel.

2. Project Detail Management.

It is our social module in which we describes all detail about the project. In this module we enter the project id, project title and many more. In this module we also give the guide detail who help in making the project.

3. Guide Review Management.

It is our third module in this module the data of guide/ staff of college describes and it also holds data of which guide helps on which project.

4. Project Marking Module.

It is our fourth module in this module the marking is given by the HOD at each level and finally marking is given by the external teacher at the time of practical exam.

5. Certificate issued Module.

It is our fifth module. this module holds data of student project and guide certificate.

Table description

Stud:

S no	Attribute name	Datatype	size	constraint
1	Regno	number		Primary key
2	Admno	number	5	Unique not null
3	Univno	number	15	Unique not null
4	Course	Char	5	Not null
5	Nm	Varchar2	20	Not null
6	Fnm	Varchar2	20	Not null
7	Gender	Varchar2	8	Not null
8	Batch	Varchar2	10	Not null
9	Phnno	number	10	Not null
10	Dob	Varchar2	12	Not null
11	Ses	Char	11	Not null

Prjdtl:

S no	Attribute name	Datatype	Size	Constraint
1	Batch	Char	3	Not null
2	Year	Char	4	Not null
3	Prjid	Char	8	Primary key
2	Prjtitle	Varchar2	40	Not null
3	Compnm	Varchar2	40	Not null
4	Fend	Varchar2	15	Not null
5	Bend	Varchar2	15	Not null
6	Stdt	Date		Not null
7	Sbdt	Date		Not null

memdtl:

S no	Attribute name	Datatype	Size	Constraint
1	Rollno	Number	5	Primary key
2	Nm	Varchar2	20	Not null
3	Regno	number	15	Unique not null
4	Phnno	Number	10	Unique not null
4	Prjid	Char	8	Foreign key

cissued:

S no	Attribute name	Datatype	Size	Constraint
1	Prjid	Char	8	Foreign key
2	Prjtitle	Varchar2	40	Not null
3	Compnm	Varchar2	40	Not null
4	Mem	Number	1	Not null
5	Opt	Varchar2	3	Not null

Guide:

S no	Attribute name	Datatype	Size	Constraint
1	Code	Varchar2	10	Primary key
2	Nm	Varchar2	20	Not null
3	Fnm	Varchar2	20	Not null
4	Phnno	Varchar2	10	Unique not null
5	Email	Varchar2	20	Not null
6	Exp	Varchar2	50	Not null
7	Addr	Varchar2	50	Not null

prjguide:

S no	Attribute name	Datatype	Size	Constraint
1	Prjid	Char	8	Foreign key
2	Prjtitle	Varchar2	25	Not null
3	Compnm	Varchar2	30	Not null
4	Gid	Varchar2	20	Foreign key
5	Gnm	Varchar2	20	Not null
6	Gphno	Varchar2	10	Not null

docmark:

S no	Attribute name	Datatype	Size	Constraint
1	Prjid	Char	8	Foreign key
2	Lbl	Varchar2	20	Not null
3	Status	Varchar2	13	Not null
4	Sbmdt	Date		Not null
5	Grade	Varchar2	3	Not null

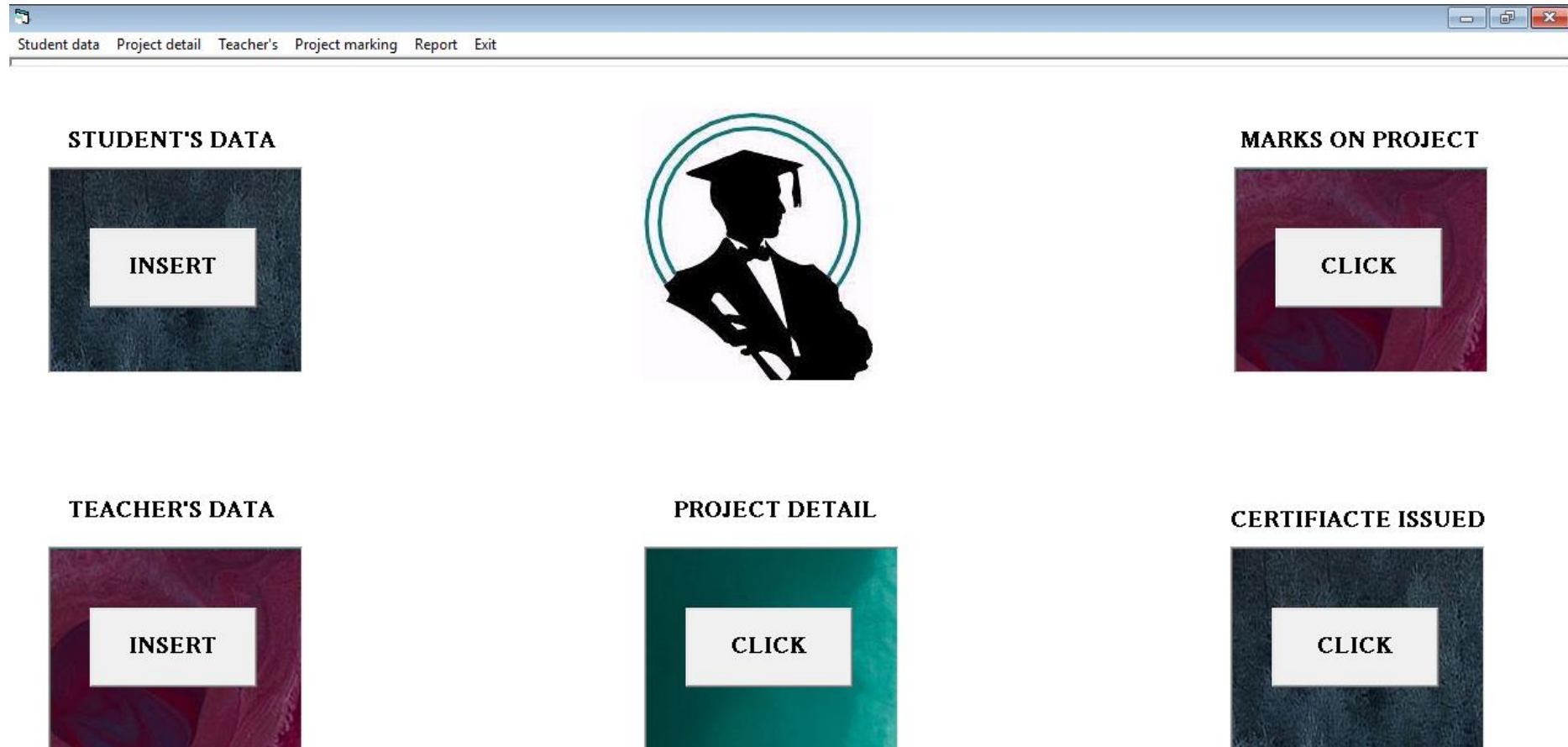
memmark:

S no	Attribute name	Datatype	Size	Constraint
1	Prjid	Char	8	Foreign key
2	Lvl	Varchar2	20	Not null
3	Clsroll	Char	5	Not null
4	Regno	Char	15	Not null
5	Grade	Varchar2	3	Not null

SPLASH FORM



MDI FORM



The image shows a software interface titled "MDI FORM" with a menu bar and six main buttons arranged in a 2x3 grid. The menu bar includes "Student data", "Project detail", "Teacher's", "Project marking", "Report", and "Exit". The buttons are labeled as follows:

- STUDENT'S DATA**: INSERT (dark blue background)
- MARKS ON PROJECT**: CLICK (maroon background)
- TEACHER'S DATA**: INSERT (maroon background)
- PROJECT DETAIL**: CLICK (teal background)
- CERTIFIACTE ISSUED**: CLICK (dark blue background)

In the center of the interface is a silhouette of a graduate wearing a cap and gown, holding a diploma, set against a circular background.

STUDENT'S DATA FORM(INFOFRM)

The screenshot displays a web application interface for managing student data. The main form is organized into two columns of input fields. The left column includes fields for 'REGISTRATION NO.', 'ADMISSION NO.', 'UNIVERSITY ROLL NO.', 'COURSE', 'NAME', and 'FATHER'S NAME'. The right column includes fields for 'GENDER', 'BATCH', 'PHONE NO.', 'SESSION', 'DATE OF BIRTH', and a 'GENDER' dropdown menu. Below these fields are six buttons: 'ADD NEW', 'SAVE', 'UPDATE', 'SEARCH', 'RESET', and 'SHOW DATA'. A modal dialog box titled 'PRJ2MOD' is open in the center, displaying 'RECORD SAVED' and an 'OK' button. On the right side, there is a sidebar with a prompt 'Enter admission no.' and an input field. The background of the application features a dark blue network diagram with nodes and connecting lines.

REGISTRATION NO.	184391114008057	GENDER	MALE
ADMISSION NO.	18179	BATCH	3-2
UNIVERSITY ROLL NO.	1943940080069	PHONE NO.	9534784457
COURSE	BCA	SESSION	2018-2021
NAME	GAUTAM SINGH	DATE OF BIRTH	09-06-1999
FATHER'S NAME	S S SINGH		

Buttons: ADD NEW, SAVE, UPDATE, SEARCH, RESET, SHOW DATA

Modal Dialog: PRJ2MOD, RECORD SAVED, OK

Sidebar: Enter admission no.

PROJECT DETAIL FORM(PRJDTLFRM)

Form1

BATCH 3-2 **YEAR** 2020

PROJECT TITLE COURSE PROJECT MANAGEMENT SYSTEM

COMPANY NAME ARCADE BUSINESS COLLEGE

PROJECT ID PRJ2032B

MEMBER DETAILS :

ROLL NO.	NAME	REGISTRATION NO.	MOBILE NO.
18179	GAUTAM SINGH	184391114008057	9534784457
18165	HIMANSHU RANJAN	10000000	7667440911

PRJ2MOD ×
RECORD SAVED
OK

ADD NEW
SAVE
UPDATE
SEARCH
DELETE
RESET

FRONT END **VISUAL BASIC** **BACK END** **ORACLE**

START DATE 30 Mar 2021 **SUBMISSION DATE** 23 Sep 2021

GUIDE DETAIL FORM(GUIDE_DATAFRM)

Form1

CODE	G003	<input type="text"/>
NAME	ANUPAM SINGH	
FATHER'S NAME	DILIP KUMAR	
CONTACT NO.	8507702810	
EMAIL ID	anupamsngh@gmail.com	
EXPERIENCE	POST GRADUATE(MCA),HOD IN BCA AT ARCADE COLLEGE	
ADDRESS	RANJENDRA NAGAR, PATNA	

PRJ2MOD X
RECORD SAVED
OK

ADD NEW SAVE UPDATE SEARCH DELETE RESET

PROJECT GUIDE FORM(GUIDE_DTLFRM)

The form is titled "Frame2" and is set against a background of light pink cherry blossoms and green leaves. It contains several input fields and a row of action buttons.

BATCH	YEAR	PROJECT ID
3-2	2020	PRJ2032A

PROJECT TITLE	OSOUL BAG HOUSE
COMPANY NAME	BAG MANUFACTURING MANAGEMENT SYSTEM
GUIDE CODE	G001
GUIDE NAME	ANUJ KUMAR
PHONE NUMBER	9939648292

ADD NEW	SAVE	UPDATE	SEARCH	DELETE	RESET
---------	------	--------	--------	--------	-------

PROJECT MARKING(DOCUMENT MARKING)

BATCH
3-2

YEAR
2020

PROJECT ID
PRJ2032A

DOCUMENTATION :)

LEVEL	STATUS	SUBMISSION DATE	GRADE
SYNOPSIS	SUBMITTED	20-04-2021	A
1ST PRESENTATION	SUBMITTED		A
2ND PRESENTATION	SUBMITTED		A

PRJ2MOD
RECORD SAVED ;)
OK

MEMBER DETAILS :)

ROLL NO.	NAME	REGISTRATION NO.	MARKS
18130	ANKIT MISHRA	184391114008059	90
18140	PRACHI SHARMA	184391114005058	90
18135	HARSH MEHTA	184391114008060	90
18155	RAUSHAN KR	184391114008065	91

SAVE

UPDATE

RESET

SHOW

BATCH

YEAR

PROJECT ID

3-2

2020

PRJ2032A

DOCUMENTATION :)

LEVEL	STATUS	SUBMISSION DATE	GRADE
SYNOPSIS	SUBMITTED	20-04-2021	A
1ST PRESENTATION	SUBMITTED		A
2ND PRESENTATION	SUBMITTED		A

SAVE

UPDATE

RESET

SHOW

MEMBER DETAILS :)

ROLL NO.	NAME	REGISTRATION NO.	MARKS

CETIFICATE ISSUED FORM(CERTIFICATE ISSUEDFRM)

YEAR

BATCH	YEAR	PROJECT ID
3-2	2020	PRJ2032E

PROJECT TITLE	COURSE PROJECT MANAGEMENT SYSTEM
COMPANY NAME	ARCADE BUSINESS COLLEGE
MEMBER	2
CERTIFICATE ISSUED	<input checked="" type="radio"/> YES

PRJ2MOD
RECORD SAVED ;)
OK

SAVE
UPDATE
PRINT
RESET
SHOW

Windows taskbar: Type here to search, 10:33, 22-09-2021

STUDENT DATA REPORT (STUD INFO REPORTFRM)

Form2
✕

☐ NAME

☐ ADMNO.

☐ BATCH

☒ ALL REPORT

PRINT

REGNO	ADMNO	UNIVNO	COURSE	NM	FN	GENDER	BATCH	PHNNO	DOI
181050000011	18110		BCA	UJJAWAL RAJ	DONT KNOW	MALE	3-2	9534784461	30-0
181050000013	18120		BCA	ANISH RAJ	DONT KNOW	MALE	3-2	9534784463	25-0
184391114008057	18179	1943940080069	BCA	GAUTAM SINGH	S S SINGH	MALE	3-2	9534784457	09-0
10000000034515	18165	1943940080072	BCA	HIMANSHU RANJAN	PRAMOD KUMAR	MALE	3-2	7667440911	12-0
184391114008059	18130	1943940080060	BCA	ANKIT MISHRA	PRAKHAR MISHRA	MALE	3-2	9534784465	30-1
184391114005058	18140	1943940080070	BCA	PRACHI SHARMA	SAGAR SHARMA	FEMALE	3-2	9534784467	30-0
1810500000019	18150		BCA	PRIYANSHU SHARMA	DONT KNOW	FEMALE	3-2	9534784469	31-0
102010230120321	12365		BCA	HGH	HGF	MALE	3-2	8585857496	13-0
10000007894561	10999	1010202098745	BCA	JKHJ	KJHGUH	MALE	3-2	9585858574	01-0
1820500000010	18205		BCA	DEEPAK RAJ	DONT KNOW	MALE	3-3	9939648280	28-0
1820500000011	18215		BCA	VASUDA SHARMA	DONT KNOW	FEMALE	3-3	9939156800	26-0

PROJECT DETAIL REPORT (PROJECT DTL REPORTFRM)

☐ PROJECT ID

☐ YEAR

☐ BATCH

☒ ALL REPORT

PRINT

	BATCH	YEAR	PRJID	PRJTITLE	COMPNM	FEND	BEND	STDT	SBDT
▶	3-2	2020	PRJ2032A	BAG MANUFACTURING	OSOUL BAG HOUSE	VISUAL BASIC	ORACLE	13-03-2021	23-09-2021
	3-2	2020	PRJ2032B	COURSE PROJECT MA	ARCADE BUSINESS CO	VISUAL BASIC	ORACLE	30-03-2021	23-09-2021

GUIDE DETAIL REPORT (GUIDE_REPORTFRM)

Form5

CODE

ALL REPORT

PRINT

	CODE	NM	FNM	PHNNO	EMAIL	EXP	ADDR
▶	G001	ANUJ KUMAR	PRAMOD KUMAR	9939648292	anujkr@yahoo.com	MCA POST GRADUATE	MALAH PAKRI, KANKA
	G002	HIMANSHU RANJAN	KRISHNA KUMAR	6099684582	himan.k@gmail.com	FRESHER, MCA POST-G	FATWAH

PROJECT MARKS REPORT (PROJECT DTL REPORTFORM)

PROJECT ID

YEAR

BATCH



ALL REPORT


3-2

PRINT

LVL	CLSROLL	NAME	REGNO	GRADE	PRJID	YEAR	BATCH	PRJT
1ST PRESENTATION	18130	ANKIT MISHRA	184391114008059	85	PRJ2032A	2020	3-2	BAG
2ND PRESENTATION	18155	RAUSHAN KR	184391114008065	91	PRJ2032A	2020	3-2	BAG
1ST PRESENTATION	18140	PRACHI SHARMA	184391114005058	80	PRJ2032A	2020	3-2	BAG
1ST PRESENTATION	18155	RAUSHAN KR	184391114008065	88	PRJ2032A	2020	3-2	BAG
2ND PRESENTATION	18135	HARSH MEHTA	184391114008060	90	PRJ2032A	2020	3-2	BAG
1ST PRESENTATION	18135	HARSH MEHTA	184391114008060	85	PRJ2032A	2020	3-2	BAG
2ND PRESENTATION	18130	ANKIT MISHRA	184391114008059	90	PRJ2032A	2020	3-2	BAG
2ND PRESENTATION	18140	PRACHI SHARMA	184391114005058	90	PRJ2032A	2020	3-2	BAG

STUDENT DATA REPORT (SORT BY ADMISSION NO.)

 Zoom



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INFORMATION OF STUDENT

REGNO: 1843911140

ADMNO: 18179

UNIVNO: 1943940080

COURSE: BCA

NM: GAUTAM





FNM: S S SINGH

GENDER: MALE



BATCH: 3-2


PHNNO: 9534784457

DOB: 09-06-1999

Pages:   1  

STUDENT DATA REPORT (SORT BY NAME)





 Zoom




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INFORMATION OF STUDENT

REGNO:	184391114005058
ADMNO:	18140
UNIVNO:	1943940080070
COURSE:	BCA
NM:	PRACHI SHARMA
FNM:	SAGAR SHARMA
GENDER:	FEMALE
BATCH:	3-2
PHNNO:	9534784467
DOB:	30-09-1998
SES:	2018-2021

Pages:  1 

STUDENT DATA REPORT (SORT BY BATCH)

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<u>INFORMATION OF STUDENTS</u>					
REGIST. NO	ADMNO	UNIV. NO	NAME	GENDER	PHONE NO.
1810500000011	18110		UJJAWAL RAJ	MALE	9534784461
1810500000013	18120		ANISH RAJ	MALE	9534784463
184391114008057	18179	1943940080069	GAUTAM SINGH	MALE	9534784457
10000000034515	18165	1943940080072	HIMANSHU RANJAN	MALE	7667440911
184391114008059	18130	1943940080060	ANKIT MISHRA	MALE	9534784465
184391114005058	18140	1943940080070	PRACHI SHARMA	FEMALE	9534784467
1810500000019	18150		PRIYANSHU SHARMA	FEMALE	9534784469
102010230120321	12365		HGH	MALE	8585857496
10000007894561	10999	1010202098745	JKHJ	MALE	9585858574
1810500000010	18105		ABHISHEK KR	MALE	9534784460
1810500000012	18115		PRIYAKANSHI MISHRA	FEMALE	9534784462
1810500000014	18125		shailee prakash	FEMALE	9534784464
184391114008060	18135	1943940080072	HARSH MEHTA	MALE	9534784466
1810500000018	18145		SAGAR SHARMA	MALE	9534784468
184391114008065	18155	1943940080075	RAUSHAN KR	MALE	9534784470

STUDENT DATA REPORT (ALL REPORT)



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PROJECT DETAIL REPORT (SORT BY PROJECT ID)

DataReport6



Zoom 75%



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PROJECT DETAIL



BATCH	3-2
YEAR	2020
PROJECT ID	PRJ2032B
PROJECT TITLE	COURSE PROJECT MANAGEMENT SYSTEM
COMPANY NAME	ARCADE BUSINESS COLLEGE


ROLLNO	NAME	REGISTRATION NO.
18179	GAUTAM SINGH	184391114008057
18165	HIMANSHU RANJAN	100000000034515

PROJECT DETAIL REPORT (SORT BY BATCH)

DataReport4						
Zoom 75%						
<div>ARCADE BUSINESS COLLEGE www.abcollege.org (An Educational Institution registered u/s Indian Trusts Act, 1961, Affiliated to Patliputra University, Patna)</div>						
<u>PROJECT DETAIL</u>						
PROJECT ID	PROJECT TITLE	COMPANY NAME	YEAR	ROLL NO.	NAME	
PRJ2032A	BAG MANUFACTURING MANAGEMENT SYSTEM	OSOUL BAG HOUSE	2020	18130	ANKIT MISHRA	
PRJ2032A	BAG MANUFACTURING MANAGEMENT SYSTEM	OSOUL BAG HOUSE	2020	18140	PRACHI SHARMA	
PRJ2032A	BAG MANUFACTURING MANAGEMENT SYSTEM	OSOUL BAG HOUSE	2020	18135	HARSH MEHTA	
PRJ2032A	BAG MANUFACTURING MANAGEMENT SYSTEM	OSOUL BAG HOUSE	2020	18155	RAUSHAN KR	
PRJ2032B	COURSE PROJECT MANAGEMENT SYSTEM	ARCADE BUSINESS COLLEGE	2020	18179	GAUTAM SINGH	
PRJ2032B	COURSE PROJECT MANAGEMENT SYSTEM	ARCADE BUSINESS COLLEGE	2020	18165	HIMANSHU RANJAN	

PROJECT DETAIL REPORT (SORT BY YEAR)

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PROJECT DETAILS

PROJECT ID	PROJECT TITLE	COMPANNY NAME	ROLL NO.	NAME	BATCH
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18130	ANKIT MISHRA	3-2
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18140	PRACHI SHARMA	3-2
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18135	HARSH MEHTA	3-2
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18155	RAUSHAN KR	3-2
PRJ2032B	COURSE PROJECT MANAGEMENT SYSTEM	ARCADE BUSINESS COLLEGE	18179	GAUTAM SINGH	3-2
PRJ2032B	COURSE PROJECT MANAGEMENT SYSTEM	ARCADE BUSINESS COLLEGE	18165	HIMANSHU RANJAN	3-2

PROJECT DETAIL REPORT (ALL REPORT)

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PROJECT DETAILS

PROJECT ID	PROJECT TITLE	COMPANNY NAME	ROLL NO.	NAME	BATCH
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18130	ANKIT MISHRA	3-2
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18140	PRACHI SHARMA	3-2
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18135	HARSH MEHTA	3-2
PRJ2032A	BAG MANUFACTURING MANAGEMENT	OSOUL BAG HOUSE	18155	RAUSHAN KR	3-2
PRJ2032B	COURSE PROJECT MANAGEMENT SYSTEM	ARCADE BUSINESS COLLEGE	18179	GAUTAM SINGH	3-2
PRJ2032B	COURSE PROJECT MANAGEMENT SYSTEM	ARCADE BUSINESS COLLEGE	18165	HIMANSHU RANJAN	3-2

GUIDE DETAIL REPORT (SORT BY CODE)

Zoom 100%



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GUIDE DETAIL

CODE	G001
NAME	ANUJ KUMAR
FATHER'S NAME	PRAMOD KUMAR
CONTACT NO.	9939648292
EMAIL ID	anujkr@yahoo.com
EXPERIENCE	MCA POST GRADUATE
ADDRESS	MALAH PAKRI,KANKARBAGH,PATNA

GUIDE DETAIL REPORT (ALL REPORT)

Zoom 100%





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GUIDE DETAILS


CODE:	NAME	FATHER'S NM	PHONE NO	EXPERIENCE	EMAIL:	ADDRESS
G001	ANUJ KUMAR	PRAMOD KUMAR	9939648292	MCA POST GRADUATE	anujkr@yahoo.com	MALAHIPAKRIKANKARBAGH,PATNA
G002	HIMANSHU RANJAN	KRISHNA KUMAR	6099684582	FRESHER,MCA POST-GRADUATE	himan.k@gmail.com	FATWAH

Pages: 1

PROJECT MARKING (SORT BY PROJECT ID)



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PROJECT MARKS REPORT

PROJECT ID

PRJ2032A

PROJECT TITLE

BAG MANUFACTURING MANAGEMENT SYSTEM

COMPANY NAME

OSOUL BAG HOUSE

SYNOPSIS

A



1ST PRESENTATION


CLASS ROLL	NAME	REGIST. NO.	MARKS
18130	ANKIT MISHRA	184391114008059	85
18135	HARSH MEHTA	184391114008060	85
18140	PRACHI SHARMA	184391114005058	80
18155	RAUSHAN KR	184391114008065	88

2ND PRESENTATION

CLASS ROLL	NAME	REGIST. NO.	MARKS
18140	PRACHI SHARMA	184391114005058	90
18135	HARSH MEHTA	184391114008060	90
18130	ANKIT MISHRA	184391114008059	90
18155	RAUSHAN KR	184391114008065	91

PROJECT MARKING (SORT BY BATCH)

 Zoom



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PROJECT ID PRJ2032A
PROJECT TITLE BAG MANUFACTURING MANAGEMENT SYSTEM
COMPANY NAME OSOUL BAG HOUSE


LEVEL	ROLL NO.	NAME	REGIST. NO.	MARKS
2ND PRESENTATION	18140	PRACHI SHARMA	184391114005058	90
1ST PRESENTATION	18130	ANKIT MISHRA	184391114008059	85
2ND PRESENTATION	18135	HARSH MEHTA	184391114008060	90
2ND PRESENTATION	18130	ANKIT MISHRA	184391114008059	90
2ND PRESENTATION	18155	RAUSHAN KR	184391114008065	91
1ST PRESENTATION	18135	HARSH MEHTA	184391114008060	85
1ST PRESENTATION	18140	PRACHI SHARMA	184391114005058	80
1ST PRESENTATION	18155	RAUSHAN KR	184391114008065	88

PROJECT ID PRJ2032B
PROJECT TITLE COURSE PROJECT MANAGEMENT SYSTEM
COMPANY NAME ARCADE BUSINESS COLLEGE

LEVEL	ROLL NO.	NAME	REGIST. NO.	MARKS
1ST PRESENTATION	18165	HIMANSHU RANJAN	100000000034515	95
1ST PRESENTATION	18179	GAUTAM SINGH	184391114008057	95

PROJECT MARKING (SORT BY YEAR)

Zoom



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PROJECT ID PRJ2032A
TITLE BAG MANUFACTURING MANAGEMENT SYSTEM
COMPANY NAME OSOUL BAG HOUSE


LEVEL	ROLL NO.	NAME	REGIST. NO.	MARKS
2ND PRESENTATION	18140	PRACHI SHARMA	184391114005058	90
1ST PRESENTATION	18130	ANKIT MISHRA	184391114008059	85
2ND PRESENTATION	18135	HARSH MEHTA	184391114008060	90
2ND PRESENTATION	18130	ANKIT MISHRA	184391114008059	90
2ND PRESENTATION	18155	RAUSHAN KR	184391114008065	91
1ST PRESENTATION	18135	HARSH MEHTA	184391114008060	85
1ST PRESENTATION	18140	PRACHI SHARMA	184391114005058	80
1ST PRESENTATION	18155	RAUSHAN KR	184391114008065	88

PROJECT ID PRJ2032B
TITLE COURSE PROJECT MANAGEMENT SYSTEM
COMPANY NAME ARCADE BUSINESS COLLEGE

LEVEL	ROLL NO.	NAME	REGIST. NO.	MARKS
1ST PRESENTATION	18165	HIMANSHU RANJAN	100000000034515	95
1ST PRESENTATION	18179	GAUTAM SINGH	184391114008057	95

PROJECT MARKING (ALL REPORT)

 Zoom 75%




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PROJECT ID PRJ2032A
PROJECT TITLE BAG MANUFACTURING MANAGEMENT SYSTEM
COMPANY NAME OSOUL BAG HOUSE
BATCH 3-2
YEAR 2020


LEVEL	ROLL NO.	NAME	REGIST. NO.	MARKS
1ST PRESENTATION	18140	PRACHI SHARMA	184391114005058	80
2ND PRESENTATION	18155	RAUSHAN KR	184391114008065	91
2ND PRESENTATION	18130	ANKIT MISHRA	184391114008059	90
1ST PRESENTATION	18130	ANKIT MISHRA	184391114008059	85
2ND PRESENTATION	18140	PRACHI SHARMA	184391114005058	90
1ST PRESENTATION	18135	HARSH MEHTA	184391114008060	85
2ND PRESENTATION	18135	HARSH MEHTA	184391114008060	90
1ST PRESENTATION	18155	RAUSHAN KR	184391114008065	88

PROJECT ID PRJ2032B
PROJECT TITLE COURSE PROJECT MANAGEMENT SYSTEM
COMPANY NAME ARCADE BUSINESS COLLEGE
BATCH 3-2
YEAR 2020

LEVEL	ROLL NO.	NAME	REGIST. NO.	MARKS
1ST PRESENTATION	18179	GAUTAM SINGH	184391114008057	95
1ST PRESENTATION	18165	HIMANSHU RANJAN	100000000034515	95

Pages: 

GUIDE CERTIFICATE

 Zoom 75%

GUIDE CERTIFICATE


This is certify that the following students of Bachelor of Computer Application (BCA - 3rd Year) have completed a Project Report on the subject " **COURSE PROJECT MANAGEMENT SYSTEM** " in **VISUAL BASIC & ORACLE** , under my supervision. Their approach during the project period was highly commendable.

I wish them all the best for their future endeavour.

ANUPAM SINGH
(Department of Computer Science)

Date:/...../.....

NAME OF STUDENT	REG. NO.	UNIV. ROLL NO.
GAUTAM SINGH	184391114008057	1943940080069
HIMANSHU RANJAN	100000000034515	1943940080072

Pages:  1 

PROJECT CERTIFICATE

<u>PROJECT CERTIFICATE</u>													
<p>This is certify that the following students of Bachelor of Computer Application (BCA - 3rd Year) have completed a Project Report on the subject " COURSE PROJECT MANAGEMENT SYSTEM " in VISUAL BASIC & ORACLE , under my supervision. Their approach during the project period was highly commendable.</p> <p>I wish them all the best for their future endeavour.</p> <table><tbody><tr><td>SUSHIL SINGH (Lab in-charge)</td><td>MRS ANUPAM SINGH (HOD - Computer Science)</td></tr></tbody></table> <p>College Seal</p> <p>Date:/...../.....</p> <p>EXTERNAL EXAMINER</p> <table><thead><tr><th>NAME OF STUDENT</th><th>REG. NO.</th><th>UNIV. ROLL NO.</th></tr></thead><tbody><tr><td>GAUTAM SINGH</td><td>1843911140080</td><td>194394008006</td></tr><tr><td>HIMANSHU RANJAN</td><td>1000000000345</td><td>194394008007</td></tr></tbody></table>			SUSHIL SINGH (Lab in-charge)	MRS ANUPAM SINGH (HOD - Computer Science)	NAME OF STUDENT	REG. NO.	UNIV. ROLL NO.	GAUTAM SINGH	1843911140080	194394008006	HIMANSHU RANJAN	1000000000345	194394008007
SUSHIL SINGH (Lab in-charge)	MRS ANUPAM SINGH (HOD - Computer Science)												
NAME OF STUDENT	REG. NO.	UNIV. ROLL NO.											
GAUTAM SINGH	1843911140080	194394008006											
HIMANSHU RANJAN	1000000000345	194394008007											

CODING

MODULE:

```
Public c As ADODB.Connection
```

```
Public r As ADODB.Recordset
```

```
Public sql As String
```

```
Public Function abc()
```

```
Set c = New ADODB.Connection
```

```
c.Open "provider = msdaora.1;user id = altered/carbon; persist  
security info = true"
```

```
Set r = New ADODB.Recordset
```

```
End Function
```

```
Public Function tt()
```

```
KeyAscii = Asc(UCase(Chr(KeyAscii)))
```

```
End Function
```

FRMSPLASH:

```
Private Sub Form_Load()
```

```
Timer1.Enabled = True
```

```
End Sub
```

```
Private Sub Timer1_Timer()
```

```
ProgressBar1.Value = ProgressBar1.Value + 1
```

```
Label1.Caption = "Loading..."
```

```
Label2.Caption = ProgressBar1.Value & "%"
```

```
If (ProgressBar1.Value = ProgressBar1.Max) Then
Timer1.Enabled = False
Unload Me
MDIForm1.Show
End If
End Sub
```

INFOFRM:

```
Dim resetbtn As Boolean
Public Function isValid(box As String)
If (box = "text1") Then
    If (IsNumeric(Text1.Text) = False) Then
        Text1.Text = ""
        Text1.SetFocus
        MsgBox "NUMERIC VALUE ONLY"
    ElseIf Len(Text1.Text) <> 15 Then
        Text1.Text = ""
        Text1.SetFocus
        MsgBox "NUMBER SHOULD BE OF 15 DIGITS! "
    End If
End If

If (box = "text2") Then
    If (IsNumeric(Text2.Text) = False) Then
        Text2.Text = ""
        Text2.SetFocus
        MsgBox "NUMERIC VALUE ONLY"
```

```
ElseIf Len(Text2.Text) <> 5 Then
    Text2.Text = ""
    Text2.SetFocus
    MsgBox "NUMBER SHOULD BE OF 5 DIGITS! "
End If
End If
```

```
If (box = "text3") Then
    If (IsNumeric(Text3.Text) = False) Then
        Text3.Text = ""
        Text3.SetFocus
        MsgBox "NUMERIC VALUE ONLY"
    ElseIf Len(Text3.Text) <> 13 Then
        Text3.Text = ""
        Text3.SetFocus
        MsgBox "NUMBER SHOULD BE OF 13 DIGITS! "
    End If
End If
```

```
If (box = "text9") Then
    If (IsNumeric(Text9.Text) = False) Then
        Text9.Text = ""
        Text9.SetFocus
        MsgBox "NUMERIC VALUE ONLY"
    ElseIf Len(Text9.Text) <> 10 Then
        Text9.Text = ""
        Text9.SetFocus
        MsgBox "INVALID MOBILE NUMBER! "
```

```
End If
End If
End Function

Public Function clean()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
Text9.Text = ""
Text10.Text = ""
Text11.Text = ""
End Function
```

```
Private Sub add_Click()
clean
Text1.Enabled = True
Text2.Enabled = True
Text3.Enabled = True
Text4.Enabled = True
Text5.Enabled = True
Text6.Enabled = True
Text7.Enabled = True
Text8.Enabled = True
```



```
Text9.Enabled = True
Text10.Enabled = True
Text11.Enabled = True
Combo2.Enabled = True
Combo3.Enabled = True
delete.Enabled = False
update.Enabled = False
showdata.Enabled = False
save.Enabled = True
srch.Enabled = False
reset.Enabled = True
Text1.SetFocus
End Sub
```

```
Private Sub Combo2_Click()
Text7.Text = Combo2.Text
Text8.SetFocus
End Sub
```

```
Private Sub Combo3_Click()
Text8.Text = Combo3.Text
Text9.SetFocus
End Sub
```

```
Private Sub delete_Click()
abc
On Error GoTo ERRHANDLE
    sql = "delete from stud where regno=" + Text1.Text
```

```

Set r = c.Execute(sql)
MsgBox "RECORD DELETED"
clean
Exit Sub
ERRHANDLE:
If (Err.Description <> "") Then
    MsgBox Err.Description
    Exit Sub
End If
End Sub

```

```

Private Sub Form_Load()
abc
MonthView1.Visible = False
infobox.Enabled = False
Combo2.AddItem "MALE"
Combo2.AddItem "FEMALE"
Combo3.AddItem "3-1"
Combo3.AddItem "3-2"
Combo3.AddItem "3-3"
Combo3.AddItem "3-4"
Text4.Locked = True
Text7.Locked = True
Text8.Locked = True
Text10.Locked = True
Text1.Enabled = False
Text2.Enabled = False
Text3.Enabled = False

```

```
Text4.Enabled = False
Text5.Enabled = False
Text6.Enabled = False
Text7.Enabled = False
Text8.Enabled = False
Text9.Enabled = False
Text10.Enabled = False
Text11.Enabled = False
Combo2.Enabled = False
Combo3.Enabled = False
save.Enabled = False
update.Enabled = False
delete.Enabled = False
End Sub
```

```
Private Sub MonthView1_DateClick(ByVal DateClicked As Date)
Text10.Text = MonthView1.Value
T1 = Left(Text11.Text, 4)
T2 = Right(Text10.Text, 4)
If (T1 - T2) < 18 Then
    MsgBox " INVALID DOB OR SESSION "
    MsgBox T1 & "COMB" & T2
    Text10.SetFocus
End If
MonthView1.Visible = False
Text11.SetFocus
End Sub
```

```

Private Sub reset_Click()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
Text9.Text = ""
Text10.Text = ""
Text11.Text = ""
delete.Enabled = False
showdata.Enabled = True
update.Enabled = False
save.Enabled = False
srch.Enabled = True
End Sub

```

```

Private Sub SAVE_Click()
abc
If (Text1.Text = "" Or Text2.Text = "" Or Text4.Text = "" Or Text5.Text =
"" Or Text6.Text = "" Or Text7.Text = "" Or Text8.Text = "" Or Text9.Text
= "" Or Text10.Text = "" Or Text11.Text = "") Then
    MsgBox "ALL FIELDS ARE MANDATORY !"
Else
On Error GoTo jiyen
    sql = "insert into stud values(" + Text1.Text + "," + Text2.Text + "," +
Text3.Text + "," + Text4.Text + "," + Text5.Text + "," + Text6.Text +

```

```
"," + Text7.Text + "," + Text8.Text + "," + Text9.Text + "," +  
Text10.Text + "," + Text11.Text + ")"
```

```
Set r = c.Execute(sql)
```

```
MsgBox "RECORD SAVED"
```

```
jiyan:
```

```
If (Err.Description <> "") Then
```

```
MsgBox Err.Description
```

```
Exit Sub
```

```
End If
```

```
End If
```

```
End Sub
```

```
Private Sub showdata_click()
```

```
SEARCHFRM.Show
```

```
End Sub
```

```
Private Sub srch_Click()
```

```
infobox.Enabled = True
```

```
update.Enabled = True
```

```
delete.Enabled = True
```

```
MsgBox "PLEASE ENTER ADDMISSION NO. :)"
```

```
Text12.SetFocus
```

```
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)
```

```
If KeyAscii = 13 Then Text2.SetFocus
```

```
End Sub
```

```
Private Sub Text1_LostFocus()
```

```
IsValid ("text1")
```

```
End Sub
```

```
Private Sub Text10_GotFocus()
```

```
MonthView1.Visible = True
```

```
End Sub
```

```
Private Sub Text10_KeyPress(KeyAscii As Integer)
```

```
If KeyAscii = 13 Then Text11.SetFocus
```

```
End Sub
```

```
Private Sub Text11_Change()
```

```
If (Len(Text11.Text) = 4) Then
```

```
Text11 = Text11.Text & "-" & Text11.Text + 3
```

```
End If
```

```
'Text10.Text = Int(Format(Date, "YYYY")) - 1
```

```
End Sub
```

```
Private Sub Text12_KeyPress(KeyAscii As Integer)
```

```
If KeyAscii = 13 Then
```

```
Text1.Enabled = True
```

```
Text2.Enabled = True
```

```
Text3.Enabled = True
```

```
Text4.Enabled = True
```

```
Text5.Enabled = True
```

```
Text6.Enabled = True
```

```
Text7.Enabled = True
```

```
Text8.Enabled = True
```

```

Text9.Enabled = True
Text10.Enabled = True
Text11.Enabled = True
abc
sql = "select * from stud where admno=" + Text12.Text + ""
Set r = c.Execute(sql)
If Not r.EOF Then
Text1.Text = r.Fields(0)
Text2.Text = r.Fields(1)
If Not IsNull(r.Fields(2)) Then
Text3.Text = r.Fields(2)
End If
Text4.Text = r.Fields(3)
Text5.Text = r.Fields(4)
Text6.Text = r.Fields(5)
Text7.Text = r.Fields(6)
Text8.Text = r.Fields(7)
Text9.Text = r.Fields(8)
Text10.Text = r.Fields(9)
Text11.Text = r.Fields(10)
Else
MsgBox "NO RECORD FOUND ! "
End If
End If
End Sub

Private Sub Text2_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then Text3.SetFocus

```

End Sub

Private Sub Text2_LostFocus()

IsValid ("text2")

End Sub

Private Sub Text3_KeyPress(KeyAscii As Integer)

If KeyAscii = 13 Then Text4.SetFocus

End Sub

Private Sub Text3_LostFocus()

IsValid ("text3")

End Sub

Private Sub Text4_GotFocus()

Text4.Text = "BCA"

End Sub

Private Sub text4_KeyPress(KeyAscii As Integer)

If KeyAscii = 13 Then Text5.SetFocus

End Sub

Private Sub Text5_KeyPress(KeyAscii As Integer)

If (KeyAscii < 97 Or KeyAscii > 122) And (KeyAscii < 65 Or KeyAscii > 90) And KeyAscii <> 8 And KeyAscii <> 32 And KeyAscii <> 13 Then

MsgBox " NUMBER AND SPECIAL CHARACTER ARE NOT ALLOW ! "

KeyAscii = 0

End If

KeyAscii = Asc(UCase(Chr(KeyAscii)))


```
If KeyAscii = 13 Then
'Text5.Text = UCase(Text5.Text)
Text6.SetFocus
End If
End Sub
```

```
Private Sub Text6_KeyPress(KeyAscii As Integer)
If (KeyAscii < 97 Or KeyAscii > 122) And (KeyAscii < 65 Or KeyAscii > 90) And KeyAscii <> 8 And KeyAscii <> 32 And KeyAscii <> 13 Then
MsgBox " NUMBER AND SPECIAL CHARACTER ARE NOT ALLOW !"
KeyAscii = 0
End If
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
'Text6.Text = UCase(Text6.Text)
Text7.SetFocus
End If
End Sub
```

```
Private Sub Text7_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then Text8.SetFocus
End Sub
```

```
Private Sub Text8_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then Text9.SetFocus
End Sub
```

```
Private Sub Text9_KeyPress(KeyAscii As Integer)
If KeyAscii = 32 Then
```

```

MsgBox "SPACE NOT ALLOWED"
KeyAscii = 0
Else
If (KeyAscii < 48 Or KeyAscii > 57) And KeyAscii <> 8 And KeyAscii <>
13 Then
MsgBox "ONLY DIGIT ALLOWED"
KeyAscii = 0
End If
If (KeyAscii = 13) Then
If (Text9.Text <> "") Then
Text11.SetFocus
Else
KeyAscii = 0
MsgBox "INPUT CONTACT NO. FIRST"
End If
If (Len(Text9.Text) <> 10) Then
MsgBox "Enter 10 digits"
Text9.SetFocus
End If
Text11.SetFocus
End If
End If
End Sub

```

```

Private Sub Text9_LostFocus()
l = 0
l = Left(Text9.Text, 1)
M = (Len(Text9.Text))
If (((l = 6) Or (l = 7) Or (l = 8) Or (l = 9)) And (M = 10)) Then

```

```

Text11.SetFocus
Else
MsgBox "INVALID NUMBER"
Text9.Text = ""
Text9.SetFocus
End If
End Sub

```

```

Private Sub update_Click()
If Len(Text3.Text) <> 13 Then
    MsgBox "UNIVERSITY ROLL NO. SHOULD BE 13 DIGIT"
    Text3.SetFocus
ElseIf Len(Text1.Text) <> 15 Then
    MsgBox " REGISTRATION NO. SHOULD BE 15 DIGIT"
    Text1.SetFocus
ElseIf Len(Text2.Text) <> 5 Then
    MsgBox "ADMMISION NO. SHOULD BE 5DIGIT"
    Text2.SetFocus
ElseIf Len(Text9.Text) <> 10 Then
    MsgBox "MOBILE NO. SHOULD BE 10 DIGIT"
    Text9.SetFocus
Else

```

```

abc

```

```

On Error GoTo ERRHANDLE

```

```

If Text3.Text = "" Then

```

```

    sql = "update stud set REGno=" + Text1.Text + ", course=" +
Text4.Text + ",nm=" + Text5.Text + ",fnm=" + Text6.Text + ",gender="
+ Text7.Text + ",batch = " + Text8.Text + ",phnno = " + Text9.Text +

```

```
",dob = "" + Text10.Text + "", ses="" + Text11.Text + "" Where ADMNO = "
+ Text2.Text + " "
```

```
Else
```

```
    sql = "update stud set REGno=" + Text1.Text + ",univno=" +
Text3.Text + ",course=" + Text4.Text + ",nm=" + Text5.Text + ",fnm="
+ Text6.Text + ",gender=" + Text7.Text + ",batch = " + Text8.Text +
",phnno = " + Text9.Text + ",dob = " + Text10.Text + ", ses=" +
Text11.Text + "" Where ADMNO = " + Text2.Text + " "
```

```
End If
```

```
Set r = c.Execute(sql)
```

```
MsgBox "RECORD UPDATED"
```

```
clean
```

```
Exit Sub
```

```
ERRHANDLE:
```

```
    If (Err.Description <> "") Then
```

```
        MsgBox Err.Description
```

```
        Exit Sub
```

```
    End If
```

```
End If
```

```
End Sub
```

PRJ_DTLFRM:

```
Dim TEXT7F As Boolean
```

```
Dim TEXT6F As Boolean
```

```
Private Sub ADDNEW_Click()
```

```
    Frame1.Enabled = True
```

```
    Text1.Enabled = True
```

```
    Text2.Enabled = True
```

```
Text3.Enabled = True
Text4.Enabled = True
Text5.Enabled = True
Text6.Enabled = True
Text7.Enabled = True
text21.Enabled = True
Text8.Enabled = False
Combo1.Enabled = True
Combo2.Enabled = False
save.Enabled = True
delete.Enabled = False
update.Enabled = False
search.Enabled = False
reset.Enabled = True
clean
MonthView1.Visible = False
End Sub
```

```
Private Sub Combo1_Click()
Text1.Text = Combo1.Text
If Text1.Text = "" Then
Combo1.SetFocus
Else
Combo2.Enabled = True
Combo2.SetFocus
End If
End Sub
```

```
Private Sub Combo1_LostFocus()
```

```
Combo2.Enabled = True
```

```
End Sub
```

```
Private Sub Combo2_Click()
```

```
text21.Text = Combo2.Text
```

```
Text2.SetFocus
```

```
End Sub
```

```
Private Sub Combo2_LostFocus()
```

```
abc
```

```
'sql = "select max(to_number(substr(prjid,8,1))) from prjdtl"
```

```
sql = "select max(substr(prjid,8,1)) from prjdtl where batch='" +  
Text1.Text + "'and year='" + text21.Text + """
```

```
Set r = c.Execute(sql)
```

```
'MsgBox r.Fields(0)
```

```
If IsNull((r.Fields(0))) Then
```

```
Text8.Text = "PRJ" & Right(text21.Text, 2) & Left(Text1.Text, 1) &  
Right(Text1.Text, 1) & "A"
```

```
ElseIf (Asc(r.Fields(0)) < 92) Then
```

```
Text8.Text = "PRJ" & Right(text21.Text, 2) & Left(Text1.Text, 1) &  
Right(Text1.Text, 1) & Chr(Asc(r.Fields(0)) + 1)
```

```
Else
```

```
MsgBox "Can not add more project"
```

```
End If
```

```
'Label1.Caption = "PRJ" & Right(Text21.Text, 2) & Left(Text1.Text, 1) &  
Right(Text1.Text, 1)
```

```
End Sub
```

```

Private Sub delete_Click()
If (Text1.Text = "" Or Text2.Text = "" Or Text3.Text = "" Or Text4.Text =
"" Or Text5.Text = "" Or Text6.Text = "" Or Text7.Text = "") Then
MsgBox "PLEASE ENTER THE REGISTRATION NUMBER !"
Text8.SetFocus
Else
On Error GoTo ERRHADLE
sql = "delete from memdtl where prjid=" + Text8.Text + ""
Set r = c.Execute(sql)
sql = "delete from prjdtl where prjid = " + Text8.Text + ""
Set r = c.Execute(sql)
MsgBox "RECORD DELETED"
Exit Sub
ERRHANDLE:
If (Err.Description <> "") Then
    MsgBox Err.Description
    Exit Sub
End If
End If
End Sub

Private Sub rn_KeyPress(Index As Integer, KeyAscii As Integer)
If (KeyAscii = 13) Then
    getbyroll Index, rn(Index).Text
    If Index < ind Then
        End If
End If
End Sub

```

```
Private Sub SAVE_Click()
```

```
abc
```

```
If (Text8.Text = "" Or Text2.Text = "" Or Text3.Text = "" Or Text4.Text = "" Or Text5.Text = "" Or Text6.Text = "" Or Text7.Text = "") Then
```

```
    MsgBox "ALL FIELDS ARE MANDATORY !"
```

```
Else
```

```
    If (T1(0).Text = "" Or r1(0).Text = "" Or m1(0).Text = "") Then
```

```
        MsgBox "enter at least two member"
```

```
    Else
```

```
        Text8.Text = Trim(Text8.Text)
```

```
        On Error GoTo ERRHANDLE
```

```
        sql = "insert into prjdtl values(" + Text1.Text + "," + text21.Text + "," + Text8.Text + "," + Text2.Text + "," + Text3.Text + "," + Text4.Text + "," + Text5.Text + "," + Text6.Text + "," + Text7.Text + ")"
```

```
        'MsgBox sql
```

```
        'MsgBox "RECORD SAVED"
```

```
        Set r = c.Execute(sql)
```

```
        saveToMember
```

```
        MsgBox "RECORD SAVED"
```

```
    End If
```

```
Exit Sub
```

```
ERRHANDLE:
```

```
    If (Err.Description <> "") Then
```

```
        MsgBox Err.Description
```

```
    Exit Sub
```

```
    End If
```

```
End If
```


End Sub

Private Sub Form_Load()

abc

Dim SES As Integer

Combo1.AddItem "3-1"

Combo1.AddItem "3-2"

Combo1.AddItem "3-3"

Combo1.AddItem "3-4"

On Error GoTo ERRHANDLE

sql = "SELECT DISTINCT SES FROM STUD ORDER BY SES "

Set r = c.Execute(sql)

While r.EOF = False

SES = 0

SES = Int(Right(r.Fields(0), 6)) - 1

Combo2.AddItem SES

r.MoveNext

Wend

ERRHANDLE:

If (Err.Description <> "") Then

MsgBox Err.Description

Exit Sub

End If

Text1.Locked = True

text21.Locked = True

Text6.Locked = True

Text7.Locked = True

```
Text8.Enabled = False
Text1.Enabled = False
Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
Text6.Enabled = False
Text7.Enabled = False
text21.Enabled = False
Frame1.Enabled = False
Combo1.Enabled = False
Combo2.Enabled = False
save.Enabled = False
update.Enabled = False
delete.Enabled = False
reset.Enabled = False
MonthView1.Visible = False
End Sub
```

```
Private Sub Text10_KeyPress(KeyAscii As Integer)
If (KeyAscii = 13) Then
getbyroll 1, Text10.Text
Text11.SetFocus
End If
End Sub
```

```
Private Sub Text11_Change()
If (KeyAscii = 13) Then
```

```
getbyroll 2, Text11.Text  
Text12.SetFocus  
End Sub
```

```
Private Sub Text12_Change()  
If (KeyAscii = 13) Then  
getbyroll 3, Text12.Text  
Text4.SetFocus  
End Sub
```

```
Private Sub MonthView1_DateClick(ByVal DateClicked As Date)  
If TEXT7F Then  
Text7.Text = Format(MonthView1.Value, "dd mmm yyyy")  
ElseIf TEXT6F Then  
Text6.Text = Format(MonthView1.Value, "dd mmm yyyy")  
End If  
MonthView1.Visible = False  
  
End Sub
```

```
Private Sub reset_Click()  
clean  
search.Enabled = True  
update.Enabled = False  
delete.Enabled = False  
save.Enabled = False  
End Sub
```

```

Private Sub search_Click()
Text8.Enabled = True
MsgBox " ENTER PRJID !"
Text8.SetFocus
update.Enabled = True
delete.Enabled = True
Text1.Enabled = True
Text2.Enabled = True
Text3.Enabled = True
Text4.Enabled = True
Text5.Enabled = True
Text6.Enabled = True
Text7.Enabled = True
text21.Enabled = True
reset.Enabled = True
Combo1.Enabled = False
Combo2.Enabled = False
End Sub

```

```

Private Sub Text2_KeyPress(KeyAscii As Integer)
If (KeyAscii < 97 Or KeyAscii > 122) And (KeyAscii < 65 Or KeyAscii > 90) And KeyAscii <> 8 And KeyAscii <> 32 And KeyAscii <> 13 Then
MsgBox " NUMBER AND SPECIAL CHARACTER ARE NOT ALLOW !"
KeyAscii = 0
End If
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
Text3.SetFocus
End If

```

End Sub

Private Sub Text3_KeyPress(KeyAscii As Integer)

If (KeyAscii < 97 Or KeyAscii > 122) And (KeyAscii < 65 Or KeyAscii > 90) And KeyAscii <> 8 And KeyAscii <> 32 And KeyAscii <> 13 Then

MsgBox " NUMBER AND SPECIAL CHARACTER ARE NOT ALLOW ! "

KeyAscii = 0

End If

KeyAscii = Asc(UCase(Chr(KeyAscii)))

If KeyAscii = 13 Then

rn(0).SetFocus

End If

End Sub

Private Sub text4_KeyPress(KeyAscii As Integer)

KeyAscii = Asc(UCase(Chr(KeyAscii)))

If KeyAscii = 13 Then Text5.SetFocus

End Sub

Private Sub Text5_KeyPress(KeyAscii As Integer)

KeyAscii = Asc(UCase(Chr(KeyAscii)))

If KeyAscii = 13 Then Text6.SetFocus

End Sub

Private Sub Text6_GotFocus()

MonthView1.Visible = True

TEXT6F = True

TEXT7F = False

End Sub

```
Private Sub Text6_KeyPress(KeyAscii As Integer)
If KeyAscii = 13 Then Text7.SetFocus
End Sub
```

```
Private Sub Text7_GotFocus()
MonthView1.Visible = True
TEXT6F = False
TEXT7F = True
End Sub
```

```
Private Sub Text8_KeyPress(KeyAscii As Integer)
On Error GoTo pqr
KeyAscii = Asc(UCCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
abc
sql = "select * from prjdtl where prjid='" + Text8.Text + "'"
Set r = c.Execute(sql)
If r.EOF = False Then
Text1.Text = r.Fields(0)
text21.Text = r.Fields(1)
Text2.Text = r.Fields(3)
Text3.Text = r.Fields(4)
Text4.Text = r.Fields(5)
Text5.Text = r.Fields(6)
Text6.Text = Format(r.Fields(7), "dd mmm yyyy")
Text7.Text = Format(r.Fields(8), "dd mmm yyyy")
Text8.Text = r.Fields(2)
```

```

'-----

sql = "select * from memdtl where prjid='" + Text8.Text + "'"
Set r = c.Execute(sql)
Dim I As Integer
I = 0
While r.EOF = False
    rn(I) = r.Fields(0)
    T1(I) = r.Fields(1)
    r1(I) = r.Fields(2)
    m1(I) = r.Fields(3)
    r.MoveNext
    I = I + 1
Wend
Else
    MsgBox " NO RECORD FOUND ! "
End If
Frame1.Enabled = True
Exit Sub

pqr:
MsgBox " NO RECORD FOUND ! "
End If
End Sub

Private Sub update_Click()
    abc
    If (Text1.Text = "" Or Text2.Text = "" Or Text3.Text = "" Or Text4.Text =
        "" Or Text5.Text = "" Or Text6.Text = "" Or Text7.Text = "" Or Text8.Text
        = "" Or text21.Text = "") Then
        MsgBox "PLEASE ENTER THE PROJECT ID !"
    End If
End Sub

```

Else

If (T1(0).Text = "" Or r1(0).Text = "" Or m1(0).Text = "") Then

MsgBox "enter at least two member"

Else

Text8.Text = Trim(Text8.Text)

On Error GoTo ERRHADLE

sql = "update prjdtl set prjtitle='" + Text2.Text + "',compnm='" + Text3.Text + "',fend='" + Text4.Text + "',bend='" + Text5.Text + "', stdt='" + Text6.Text + "',sbdtd='" + Text7.Text + "where prjid='" + Text8.Text + ""

Set r = c.Execute(sql)

sql = "delete from memdtdl where prjid='" + Text8.Text + ""

Set r = c.Execute(sql)

saveToMember

MsgBox "RECORD UPDATED"

clean

End If

Exit Sub

ERRHANDLE:

If (Err.Description <> "") Then

MsgBox Err.Description

Exit Sub

End If

End If

End Sub

Function saveToMember()

Dim ind As Integer

ind = 0


```

If (T1(0).Text <> "" And r1(0).Text <> "" And m1(0) <> "") Then
ind = ind + 1
End If
If (T1(1).Text <> "" And r1(1).Text <> "" And m1(1) <> "") Then
ind = ind + 1
End If
If (T1(2).Text <> "" And r1(2).Text <> "" And m1(2) <> "") Then
ind = ind + 1
End If
If (T1(3).Text <> "" And r1(3).Text <> "" And m1(3) <> "") Then
ind = ind + 1
End If
MsgBox "Total Member " & ind
For I = 0 To ind - 1 Step 1
sql = "insert into memdtl values(" + rn(I).Text + "," & T1(I).Text & "," &
r1(I).Text & "," & m1(I).Text & "," & Text8.Text & ")"
Set r = c.Execute(sql)
Next
End Function

```

```

Function getbyroll(I As Integer, txt As String)
If (txt <> "" And Text1.Text <> "") Then
    sql = "select nm,regno,phnno from stud where admno=" & txt & "
and batch=" & Text1.Text & ""
    Set r = c.Execute(sql)
    If r.EOF = False Then
        T1(I).Text = r.Fields("nm")
        r1(I).Text = r.Fields(1)
        m1(I).Text = r.Fields(2)
    End If
End Function

```

```

    If I < 3 Then rn(I + 1).SetFocus
    Else
    MsgBox "record not found"
    rn(I).SetFocus
    T1(I).Text = ""
    r1(I).Text = ""
    m1(I).Text = ""
    End If
End If
End Function

```

```

Function clean()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Text8.Text = ""
text21.Text = ""
Dim I As Integer
For I = 0 To 3
rn(I).Text = ""
T1(I).Text = ""
r1(I).Text = ""
m1(I).Text = ""
Next

```

End Function

GUIDE_DATAFRM:

Private Sub Combo1_Click()

sql = "SELECT * FROM GUIDE WHERE code=" + Combo1.Text + ""

Set r = c.Execute(sql)

Text1.Text = r.Fields(0)

Text2.Text = r.Fields(1)

Text3.Text = r.Fields(2)

Text4.Text = r.Fields(3)

Text5.Text = r.Fields(4)

Text6.Text = r.Fields(5)

Text7.Text = r.Fields(6)

End Sub

Private Sub delete_Click()

abc

If (Text1.Text = "" Or Text2.Text = "" Or Text3.Text = "" Or Text4.Text = "" Or Text5.Text = "" Or Text6.Text = "" Or Text7.Text = "") Then

MsgBox "PLEASE SELECT THE CODE !"

Combo1.SetFocus

Else

On Error GoTo ERRHANDLE

sql = "delete from guide where code=" + Combo1.Text + ""

Set r = c.Execute(sql)

MsgBox "RECORD DELETED"

Exit Sub

ERRHANDLE:

```
If (Err.Description <> "") Then
    MsgBox Err.Description
    Exit Sub
End If
End If
clean
End Sub
```

```
Private Sub Form_Load()
abc
Text1.Enabled = False
Text2.Enabled = False
Text3.Enabled = False
Text4.Enabled = False
Text5.Enabled = False
Text6.Enabled = False
Text7.Enabled = False
save.Enabled = False
update.Enabled = False
delete.Enabled = False
reset.Enabled = True
Frame1.Enabled = False
End Sub
```

```
Private Sub new_Click()
clean
Text1.Enabled = True
Text2.Enabled = True
```

```

Text3.Enabled = True
Text4.Enabled = True
Text5.Enabled = True
Text6.Enabled = True
Text7.Enabled = True
save.Enabled = True
reset.Enabled = True
update.Enabled = False
delete.Enabled = False
abc
sql = "select max(substr(code,2,length(code))) from guide "
Set r = c.Execute(sql)
If IsNull(r.Fields(0)) Then
    Text1.Text = "G001"
    ElseIf ((r.Fields(0)) < 9) Then
        Text1.Text = "G" & "00" & r.Fields(0) + 1
        ElseIf ((r.Fields(0)) < 99) Then
            Text1.Text = "G" & "0" & r.Fields(0) + 1

Else

    MsgBox "Can not add more project"
End If
Text1.Text = Trim(Text1.Text)
End Sub

Private Sub reset_Click()
clean

```

End Sub

Private Sub SAVE_Click()

abc

If (Text1.Text = "" Or Text2.Text = "" Or Text3.Text = "" Or Text4.Text = "" Or Text5.Text = "" Or Text6.Text = "" Or Text7.Text = "") Then

MsgBox "ALL FIELDS ARE MANDATORY !"

Else

Text1.Text = Trim(Text1.Text)

On Error GoTo ERRHANDLE

sql = "insert into guide values(" + Text1.Text + "," + Text2.Text + "," + Text3.Text + "," + Text4.Text + "," + Text5.Text + "," + Text6.Text + "," + Text7.Text + ")"

Set r = c.Execute(sql)

MsgBox "RECORD SAVED"

Exit Sub

ERRHANDLE:

If (Err.Description <> "") Then

MsgBox Err.Description

Exit Sub

End If

End If

Text1.Text = ""

Text2.Text = ""

Text3.Text = ""

Text4.Text = ""

Text5.Text = ""

Text6.Text = ""

Text7.Text = ""

```
search.Enabled = True
reset.Enabled = True
End Sub
```

```
Private Sub search_Click()

abc
clean
update.Enabled = True
delete.Enabled = True
Frame1.Enabled = True
Combo1.SetFocus
save.Enabled = False
Combo1.Clear
sql = "SELECT code FROM GUIDE "
Set r = c.Execute(sql)
Do While Not r.EOF
Combo1.AddItem r.Fields(0)
r.MoveNext
Loop
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)
If (KeyAscii = 13) Then Text2.SetFocus
End Sub
```

```
Private Sub Text2_KeyPress(KeyAscii As Integer)
If (KeyAscii < 97 Or KeyAscii > 122) And (KeyAscii < 65 Or KeyAscii >
90) And KeyAscii <> 8 And KeyAscii <> 32 And KeyAscii <> 13 Then
```

```
MsgBox " NUMBER AND SPECIAL CHARACTER ARE NOT ALLOW ! "  
KeyAscii = 0  
End If  
If KeyAscii = 13 Then  
Text2.Text = UCase(Text2.Text)  
Text3.SetFocus  
End If  
End Sub
```

```
Private Sub Text3_KeyPress(KeyAscii As Integer)  
If (KeyAscii < 97 Or KeyAscii > 122) And (KeyAscii < 65 Or KeyAscii >  
90) And KeyAscii <> 8 And KeyAscii <> 32 And KeyAscii <> 13 Then  
MsgBox " NUMBER AND SPECIAL CHARACTER ARE NOT ALLOW ! "  
KeyAscii = 0  
End If  
If KeyAscii = 13 Then  
Text3.Text = UCase(Text3.Text)  
Text4.SetFocus  
End If  
End Sub
```

```
Private Sub text4_KeyPress(KeyAscii As Integer)  
If KeyAscii = 32 Then  
MsgBox "SPACE NOT ALLOWED"  
KeyAscii = 0  
Else  
If (KeyAscii < 48 Or KeyAscii > 57) And KeyAscii <> 8 And KeyAscii <>  
13 Then  
MsgBox "ONLY DIGIT ALLOWED"
```



```

KeyAscii = 0
End If
If (KeyAscii = 13) Then
If (Text4.Text <> "") Then
Else
KeyAscii = 0
MsgBox "INPUT CONTACT NO. FIRST"
End If
If (Len(Text4.Text) <> 10) Then
MsgBox "Enter 10 digits"
End If
Text5.SetFocus
End If
End If
End Sub

```

```

Private Sub Text4_LostFocus()
l = 0
l = Left(Text4.Text, 1)
M = (Len(Text4.Text))
If (((l = 6) Or (l = 7) Or (l = 8) Or (l = 9)) And (M = 10)) Then
Text5.SetFocus
Else
MsgBox "INVALID NUMBER"
Text4.Text = ""
Text4.SetFocus
End If
End Sub

```

```
Private Sub Text5_KeyPress(KeyAscii As Integer)
If (KeyAscii = 13) Then Text6.SetFocus
End Sub
```

```
Private Sub Text6_KeyPress(KeyAscii As Integer)
If (KeyAscii = 13) Then Text7.SetFocus
End Sub
```

```
Private Sub Text7_KeyPress(KeyAscii As Integer)
KeyAscii = Asc(UCase(Chr(KeyAscii)))
End Sub
```

```
Function clean()
Text1.Text = ""
Text2.Text = ""
Text3.Text = ""
Text4.Text = ""
Text5.Text = ""
Text6.Text = ""
Text7.Text = ""
Combo1.Text = ""
```

```
End Function
```

```
Private Sub update_Click()
abc
If (Text1.Text = "" Or Text2.Text = "" Or Text3.Text = "" Or Text4.Text =
"" Or Text5.Text = "" Or Text6.Text = "" Or Text7.Text = "") Then
```

```

MsgBox "PLEASE SELECT THE CODE !"
Combo1.SetFocus
Else
Text1.Text = Trim(Text1.Text)
On Error GoTo ERRHANDLE
sql = "update guide set nm=" + Text2.Text + ",fnm=" + Text3.Text +
",phnno=" + Text4.Text + ",email=" + Text5.Text + ",exp=" +
Text6.Text + ",addr=" + Text7.Text + " Where code =" + Combo1.Text
+ " "
Set r = c.Execute(sql)
MsgBox "RECORD UPDATED"
Exit Sub
ERRHANDLE:
If (Err.Description <> "") Then
    MsgBox Err.Description
    Exit Sub
End If
clean
End If
End Sub

GUIDE_DTLFRM:

Private Sub Combo1_Click()
abc
sql = "SELECT NM,PHNnO FROM GUIDe WHERE code=" +
Combo1.Text + ""
Set r = c.Execute(sql)
Text4.Text = r.Fields(0)
Text5.Text = r.Fields(1)

```

End Sub

Private Sub Combo2_Click()

sql = "select distinct year from prjdtl where batch='" + Combo2.Text +
" order by year"

Set r = c.Execute(sql)

Combo3.Clear

While r.EOF = False

Combo3.AddItem r.Fields(0)

r.MoveNext

Wend

End Sub

Private Sub Combo3_Click()

sql = "select prjid from prjdtl where batch='" & Combo2.Text & "' and
year='" & Combo3.Text & "'"

Set r = c.Execute(sql)

Combo4.Clear

While r.EOF = False

Combo4.AddItem r.Fields(0)

r.MoveNext

Wend

End Sub

Private Sub Combo4_Click()

sql = "select compnm,prjtitle from prjdtl where prjid='" + Combo4.Text
+ "'"

```
Set r = c.Execute(sql)
If r.EOF = False Then
Text1.Text = r.Fields(1)
Text2.Text = r.Fields(0)
End If
```

```
End Sub
```

```
Private Sub delete_Click()
abc
On Error GoTo ERRHANDLE
sql = "delete from prjguide where prjid='" + Text6.Text + "'"
Set r = c.Execute(sql)
MsgBox "RECORD DELETED"
Exit Sub
ERRHANDLE:
If (Err.Description <> "") Then
MsgBox Err.Description
Exit Sub
End If
cln
End Sub
```

```
Private Sub newadd_Click()
save(1).Enabled = True
update.Enabled = False
delete.Enabled = False
reset.Enabled = True
```

End Sub

```
Private Sub reset_Click()  
newadd.Enabled = True  
update.Enabled = False  
delete.Enabled = False  
search.Enabled = True  
save(1).Enabled = False  
cln  
End Sub
```

```
Private Sub search_Click()  
abc  
update.Enabled = True  
delete.Enabled = True  
save(1).Enabled = False  
On Error GoTo ERRORHANDLE  
sql = "select * from prjguide where prjid='" + Text6.Text + "'"<br>  
Set r = c.Execute(sql)  
Text1.Text = r.Fields(2)  
Text2.Text = r.Fields(1)  
Combo1.Text = r.Fields(3)  
Text4.Text = r.Fields(4)  
Text5.Text = r.Fields(5)  
Exit Sub  
ERRORHANDLE:  
If (Err.Description <> "") Then  
    MsgBox Err.Description
```

```

Exit Sub
End If
End If
Exit Sub

End Sub

Private Sub Form_Load()
abc
sql = "SELECT code FROM GUIDe "
Set r = c.Execute(sql)
Do While Not r.EOF
Combo1.AddItem r.Fields(0)
r.MoveNext
Loop
save(1).Enabled = False
delete.Enabled = False
update.Enabled = False
reset.Enabled = True
search.Enabled = True
Combo2.AddItem "3-1"
Combo2.AddItem "3-2"
Combo2.AddItem "3-3"
Combo2.AddItem "3-4"

End Sub

Function cln()
Text1.Text = ""

```

```

Text2.Text = ""
Text4.Text = ""
Text5.Text = ""
Combo1.Text = ""
Combo2.Text = ""
Combo3.Text = ""
Combo4.Text = ""
End Function

Private Sub SAVE_Click(Index As Integer)
    abc

    On Error GoTo ERRHANDLE

    sql = "insert into prjguide values('" + Text6.Text + "','" + Text2.Text +
    "','" + Text1.Text + "','" + Combo1.Text + "','" + Text4.Text + "','" +
    Text5.Text + "')"

    Set r = c.Execute(sql)

    MsgBox "RECORD SAVED"

    Exit Sub

ERRHANDLE:

    If (Err.Description <> "") Then
        MsgBox Err.Description
        Exit Sub
    End If
End If

Exit Sub

cln

End Sub

Private Sub Text6_KeyPress(KeyAscii As Integer)

```



```

On Error GoTo lmn
KeyAscii = Asc(UCase(Chr(KeyAscii)))
If KeyAscii = 13 Then
abc
sql = "select prjtitle,compnm from prjdtl where prjid='" + Text6.Text +
""
Set r = c.Execute(sql)
Text1.Text = r.Fields(1)
Text2.Text = r.Fields(0)
End If
Exit Sub
lmn:
MsgBox "RECORD NOT FOUND"
Text6.Text = ""
Text6.SetFocus
End Sub

Private Sub update_Click()
abc
On Error GoTo ERRHADLE
sql = "update prjguide set gid = '" + Combo1.Text + "',gnm='" +
Text4.Text + "',gphno='" + Text5.Text + "' where prjid='" + Text6.Text +
""
Set r = c.Execute(sql)
MsgBox "RECORD UPDATED"
Exit Sub
ERRHANDLE:
If (Err.Description <> "") Then
MsgBox Err.Description

```

```
Exit Sub
End If
cln
End Sub
```

DOCUMNT_MARKING:

```
Dim UPDATE1 As Boolean
```

```
Private Sub Combo1_Click()
sql = "select distinct year from prjdtl where batch='" + Combo1.Text +
"" order by year"
Set r = c.Execute(sql)
Combo2.Clear
While r.EOF = False
    Combo2.AddItem r.Fields(0)
    r.MoveNext
Wend
End Sub
```

```
Private Sub Combo2_Click()
sql = "select prjid from prjdtl where batch='" & Combo1.Text & "' and
year='" & Combo2.Text & "'"
Set r = c.Execute(sql)
Combo3.Clear
While r.EOF = False
    Combo3.AddItem r.Fields(0)
    r.MoveNext
Wend
```

End Sub

Private Sub Combo3_Click()

RESET.Enabled = True

Frame1.Enabled = True

Frame2.Enabled = True

Dim I As Integer

Dim DocExist, MemExist As Boolean

UPDATE.Enabled = False

delete.Enabled = False

SAVE.Enabled = False

MemExist = False

UPDATE1 = False

sql = "SELECT DISTINCT * FROM DOCMARK WHERE PRJID=" +
Combo3.Text + " ORDER BY SBMDT"

Set r = c.Execute(sql)

I = 0

If (r.EOF = False) Then

UPDATE1 = True

UPDATE.Enabled = True

SAVE.Enabled = False

Else

UPDATE1 = False

UPDATE.Enabled = False

SAVE.Enabled = True

End If

While r.EOF = False

LVL(I).Text = r.Fields(1)

```

    STCOMB(I) = r.Fields(2)
    DTPicker1(I).Value = r.Fields(3)
    GRD(I) = r.Fields(4)
    r.MoveNext
    I = I + 1
Wend
End Sub

```

```

Private Sub delete_Click()
    MARKING_REPORTFRM.Show
End Sub

```

```

Private Sub Form_Load()
    abc
    SAVE.Enabled = False
    UPDATE.Enabled = False
    RESET.Enabled = False
    Frame1.Enabled = False
    Frame2.Enabled = False
    For I = 0 To 3
        GRD(I).Enabled = False
        STCOMB(I).Enabled = False
        DTPicker1(I).Enabled = False
        rn(I).Locked = True
        T1(I).Locked = True
        r1(I).Locked = True
    Next
    Frame2.Enabled = False

```

```

Combo1.AddItem "3-1"
Combo1.AddItem "3-2"
Combo1.AddItem "3-3"
Combo1.AddItem "3-4"
For I = 0 To 3 Step 1
    STCOMB(I).AddItem "SUBMITTED"
    STCOMB(I).AddItem "NOT SUBMITTED"
Next
End Sub

```

```

Function saveToDOCUMENT()
Dim ind As Integer
ind = 0
If (LVL(0).Text <> "" And STCOMB(0).Text <> "" And GRD(0) <> "") Then
ind = ind + 1
End If
If (LVL(1).Text <> "" And STCOMB(1).Text <> "" And GRD(1) <> "") Then
ind = ind + 1
End If
If (LVL(2).Text <> "" And STCOMB(2).Text <> "" And GRD(2) <> "") Then
ind = ind + 1
End If
If (LVL(3).Text <> "" And STCOMB(3).Text <> "" And GRD(3) <> "") Then
ind = ind + 1
End If
For I = 0 To ind - 1 Step 1
    sql = "insert into docmark values('" + Combo3.Text + "', '" +
LVL(I).Text + "', '" & STCOMB(I).Text & "', '" &
Format(DTPicker1(I).Value, "dd-MMM-yyyy") & "', '" & GRD(I).Text & "')"

```

```

    MsgBox sql
    Set r = c.Execute(sql)
Next
End Function

Function saveToMember()
If ((Option1.Value = False) And (Option2.Value = True Or
Option3.Value = True Or Option4.Value = True)) Then
    Dim ind As Integer
    Dim lvltext As String
    lvltext = ""
    If (Option2.Value = True) Then
        lvltext = LVL(1).Text
    ElseIf (Option3.Value = True) Then
        lvltext = LVL(2).Text
    ElseIf (Option4.Value = True) Then
        lvltext = LVL(3).Text
    End If
    ind = 0
    If (rn(0).Text <> "" And T1(0).Text <> "" And r1(0).Text <> "" And
m1(0) <> "") Then
        ind = ind + 1
    End If
    If (T1(1).Text <> "" And r1(1).Text <> "" And m1(1) <> "") Then
        ind = ind + 1
    End If
    If (T1(2).Text <> "" And r1(2).Text <> "" And m1(2) <> "") Then
        ind = ind + 1
    End If

```

```

If (T1(3).Text <> "" And r1(3).Text <> "" And m1(3) <> "") Then
    ind = ind + 1
End If

For I = 0 To ind - 1 Step 1
    sql = "insert into MEMMARK values('" & Combo3.Text & "','" &
    lvltext & "','" & rn(I).Text & "','" & T1(I).Text & "','" & r1(I).Text & "','" &
    m1(I).Text & "')"
    Set r = c.Execute(sql)
Next
MsgBox "RECORD SAVED ;) "
End If
End Function

```

```

Public Function clean()
    Combo1.Text = ""
    Combo2.Text = ""
    Combo3.Text = ""
    For I = 0 To 3
        STCOMB(I).Text = ""
        LVL(I).Text = ""
        GRD(I).Text = ""
        rn(I).Text = ""
        T1(I).Text = ""
        r1(I).Text = ""
        m1(I).Text = ""
    Next
End Function

```

```

Private Sub GRD_KeyPress(Index As Integer, KeyAscii As Integer)

```

```
KeyAscii = Asc(UCase(Chr(KeyAscii)))  
End Sub
```

```
Private Sub LVL_KeyPress(Index As Integer, KeyAscii As Integer)  
KeyAscii = Asc(UCase(Chr(KeyAscii)))  
End Sub
```

```
Private Sub Option1_Click()  
CLNMARK  
If (UPDATE1) Then  
UPDATE.Enabled = True  
SAVE.Enabled = False  
Else  
UPDATE.Enabled = False  
SAVE.Enabled = True  
End If  
GRD(0).Enabled = True  
STCOMB(0).Enabled = True  
DTPicker1(0).Enabled = True  
Frame2.Enabled = False  
End Sub
```

```
Private Sub Option2_Click()  
GRD(0).Enabled = False  
GRD(1).Enabled = True  
STCOMB(0).Enabled = False  
STCOMB(1).Enabled = True  
DTPicker1(0).Enabled = False
```



```

DTPicker1(1).Enabled = True
Frame2.Enabled = True
GETMEMMARK (2)
End Sub

Private Sub Option3_Click()
GRD(0).Enabled = False
GRD(1).Enabled = False
GRD(2).Enabled = True
STCOMB(0).Enabled = False
STCOMB(1).Enabled = False
STCOMB(2).Enabled = True
DTPicker1(0).Enabled = False
DTPicker1(1).Enabled = False
DTPicker1(2).Enabled = True
Frame2.Enabled = True
GETMEMMARK (2)
End Sub

Function CLNMARK()
For I = 0 To 3
rn(I).Text = ""
T1(I).Text = ""
r1(I).Text = ""
m1(I).Text = ""
Next
End Function

Private Sub Option4_Click()
GRD(0).Enabled = False
GRD(1).Enabled = False

```

```
GRD(2).Enabled = False
GRD(3).Enabled = True
STCOMB(0).Enabled = False
STCOMB(1).Enabled = False
STCOMB(2).Enabled = False
STCOMB(3).Enabled = True
DTPicker1(0).Enabled = False
DTPicker1(1).Enabled = False
DTPicker1(2).Enabled = False
DTPicker1(3).Enabled = True
Frame2.Enabled = True
GETMEMMARK (2)
End Sub
```

```
Private Sub reset_Click()
clean
End Sub
```

```
Private Sub SAVE_Click()
saveToDOCUMENT
saveToMember
clean
End Sub
```

```
Private Sub update_Click()
Dim lvltext As String
On Error GoTo ERRHANDLE
sql = "DELETE FROM DOCMARK WHERE PRJID = '" + Combo3.Text +
"""
```

```
Set r = c.Execute(sql)
```

```
saveToDOCUMENT
```

```
Dim ind As Integer
```

```
ind = 0
```

```
If (rn(0).Text <> "" And T1(0).Text <> "" And r1(0).Text <> "" And m1(0)  
<> "") Then
```

```
ind = ind + 1
```

```
End If
```

```
If (T1(1).Text <> "" And r1(1).Text <> "" And m1(1) <> "") Then
```

```
ind = ind + 1
```

```
End If
```

```
If (T1(2).Text <> "" And r1(2).Text <> "" And m1(2) <> "") Then
```

```
ind = ind + 1
```

```
End If
```

```
If (T1(3).Text <> "" And r1(3).Text <> "" And m1(3) <> "") Then
```

```
ind = ind + 1
```

```
End If
```

```
lvltext = ""
```

```
    If (Option2.Value = True) Then
```

```
        lvltext = LVL(1).Text
```

```
    ElseIf (Option3.Value = True) Then
```

```
        lvltext = LVL(2).Text
```

```
    ElseIf (Option4.Value = True) Then
```

```
        lvltext = LVL(3).Text
```

```
    End If
```

```
If ((Option1.Value = False) And (Option2.Value = True Or  
Option3.Value = True Or Option4.Value = True)) Then
```

```
    MsgBox "Total Member " & ind
```

```

    For I = 0 To ind - 1 Step 1

        sql = "update memmark set GRADE='" + m1(I).Text + "' where
prjid='" + Combo3.Text + "' and clsroll='" + rn(I).Text + "' AND LVL='" &
lvltext & "'"

        Set r = c.Execute(sql)

    Next

End If

MsgBox " RECORD UPDATED :) "

Exit Sub

ERRHANDLE:

If (Err.Description <> "") Then

    MsgBox Err.Description

    Exit Sub

End If

clean

End Sub

```

```

Function GETMEMMARK(opt As Integer)

Dim lvltext As String

Dim MemExist As Boolean

Dim I As Integer

MemExist = False

If (opt = 2 Or opt = 3 Or opt = 4) Then

    If (Option2.Value = True) Then

        lvltext = LVL(1).Text

    ElseIf (Option3.Value = True) Then

        lvltext = LVL(2).Text

    ElseIf (Option4.Value = True) Then

        lvltext = LVL(3).Text

    End If

End If

```

```

End If

sql = "select DISTINCT * from memmark where prjid = '" +
Combo3.Text + "' and LVL='" & lvltext & "'"

Set r = c.Execute(sql)

I = 0

While r.EOF = False
    rn(I) = r.Fields(2)
    T1(I) = r.Fields(3)
    r1(I) = r.Fields(4)
    m1(I) = r.Fields(5)
    r.MoveNext
    I = I + 1
    MemExist = True
    UPDATE.Enabled = True
    delete.Enabled = True
    SAVE.Enabled = False
Wend

If (Not MemExist) Then
    sql = "select * from memdtl where prjid='" + Combo3.Text + "'"
    Set r = c.Execute(sql)
    I = 0
    While r.EOF = False
        rn(I) = r.Fields(0)
        T1(I) = r.Fields(1)
        r1(I) = r.Fields(2)
        m1(I) = ""
        r.MoveNext
        I = I + 1
        UPDATE.Enabled = False

```

```

        delete.Enabled = False
        SAVE.Enabled = True
    Wend
End If
End If
End Function

```

CERTIFICATE_ISSUEDFRM:

```

Private Sub Combo1_Click()
    sql = "select distinct year from prjdtl where batch='" + Combo1.Text +
    "' order by year"
    Set r = c.Execute(sql)
    Combo2.Clear
    While r.EOF = False
        Combo2.AddItem r.Fields(0)
        r.MoveNext
    Wend
End Sub

```

```

Private Sub Combo2_Click()
    sql = "select prjid from prjdtl where batch='" & Combo1.Text & "' and
    year='" & Combo2.Text & "'"
    Set r = c.Execute(sql)
    Combo3.Clear
    While r.EOF = False
        Combo3.AddItem r.Fields(0)
        r.MoveNext
    Wend

```

End Sub

Private Sub Combo3_Click()

sql = "select compnm,prjtitle from prjdtl where prjid='" + Combo3.Text + "'"

Set r = c.Execute(sql)

If r.EOF = False Then

Text1.Text = r.Fields(1)

Text2.Text = r.Fields(0)

End If

sql = "select COUNT(REGNO) from MEMDTL where prjid='" + Combo3.Text + "'"

Set r = c.Execute(sql)

If r.EOF = False Then

Text3.Text = r.Fields(0)

End If

End Sub

Private Sub Command1_Click()

CERTIFICATE_ISSUEDFRM.Show

End Sub

Private Sub Form_Load()

abc

Combo1.AddItem "3-1"

Combo1.AddItem "3-2"

Combo1.AddItem "3-3"

Combo1.AddItem "3-4"

End Sub

```

Private Sub PRINT_Click()
If (DataEnvironment1.Connection1.State) Then
DataEnvironment1.Connection1.Close
End If
DataEnvironment1.Connection1.Open
DataEnvironment1.Command9_Grouping Combo3.Text
DataReport11.Show
DataReport12.Show
End Sub

```

```

Private Sub SAVE_Click()
If Option1.Value = True Then
    M = "YES"
Else
    M = "NO"
End If

sql = "insert into CISSUED values('" + Combo3.Text + "','" + Text1.Text
+ "','" + Text2.Text + "','" + Text3.Text + "','" + M + "')"
Set r = c.Execute(sql)
MsgBox " RECORD SAVED ;)"
End Sub

```

SEARCHFRM:

```

Private Sub back_Click()
INFOFRM.Show
End Sub

```



```
Private Sub Combo1_Click()  
Text2.Text = Combo1.Text  
Text1.Text = Combo1.Text  
End Sub
```

```
Private Sub Form_Load()  
abc  
With Combo1  
    .AddItem "3-1"  
    .AddItem "3-2"  
    .AddItem "3-3"  
    .AddItem "3-4"  
End With  
Combo1.Visible = False  
Text2.Visible = False  
Text2.Locked = True  
End Sub
```

```
Private Sub Option1_Click()  
Text1.Text = ""  
Text1.SetFocus  
End Sub
```

```
Private Sub Option2_Click()  
Text1.Text = ""  
Text1.SetFocus  
End Sub
```

```
Private Sub Option3_Click()
```

```
Text1.Text = ""
```

```
Text1.SetFocus
```

```
Combo1.Visible = True
```

```
Text2.Visible = True
```

```
End Sub
```

```
Private Sub Text1_Change()
```

```
If Option1.Value = True Then
```

```
    Adodc1.RecordSource = "select * from stud where ADMNO like" +  
Text1.Text + "%"
```

```
    Adodc1.Refresh
```

```
End If
```

```
If Option2.Value = True Then
```

```
    Adodc1.RecordSource = "select * from stud where NM like" +  
Text1.Text + "%"
```

```
    Adodc1.Refresh
```

```
End If
```

```
If Option3.Value = True Then
```

```
    Adodc1.RecordSource = "select * from stud where batch LIKE" +  
Text1.Text + "%"
```

```
    Adodc1.Refresh
```

```
End If
```

```
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)
```

```
KeyAscii = Asc(UCase(Chr(KeyAscii)))
```

```
End Sub
```

STUD_INFO_REPORTFRM:

```
Private Sub Combo1_Click()  
Text2.Text = Combo1.Text  
Text1.Text = Combo1.Text  
End Sub
```

```
Private Sub Command1_Click()  
If (Option2.Value = True) Then  
    If (DataEnvironment1.Connection1.State) Then  
        DataEnvironment1.Connection1.Close  
    End If  
    DataEnvironment1.Connection1.Open  
    DataEnvironment1.Command1 Text1.Text  
    DataReport1.Show  
ElseIf (Option1.Value = True) Then  
    If (DataEnvironment1.Connection1.State) Then  
        DataEnvironment1.Connection1.Close  
    End If  
    DataEnvironment1.Connection1.Open  
    DataEnvironment1.Command2 Text1.Text  
    DataReport2.Show  
ElseIf (Option3.Value = True) Then  
    If (DataEnvironment1.Connection1.State) Then  
        DataEnvironment1.Connection1.Close  
    End If  
    DataEnvironment1.Connection1.Open
```

```
DataEnvironment1.Command3 Text1.Text
DataReport3.Show
Else
    If (DataEnvironment2.Connection1.State) Then
        DataEnvironment2.Connection1.Close
    End If
    DataEnvironment2.Connection1.Open
    DataEnvironment2.Command1
    DataReport8.Show
End If
End Sub
```

```
Private Sub Form_Load()
abc
With Combo1
    .AddItem "3-1"
    .AddItem "3-2"
    .AddItem "3-3"
    .AddItem "3-4"
End With
Combo1.Visible = False
Text2.Visible = False
Text2.Locked = True
End Sub
```

```
Private Sub Option1_Click()
Text1.Text = ""
Text1.SetFocus
```

End Sub

Private Sub Option2_Click()

Text1.Text = ""

Text1.SetFocus

End Sub

Private Sub Option3_Click()

Text1.Text = ""

Text1.SetFocus

Combo1.Visible = True

Text2.Visible = True

End Sub

Private Sub Text1_Change()

If Option1.Value = True Then

Adodc1.RecordSource = "select * from stud where admno like" +
Text1.Text + "%"

Adodc1.Refresh

End If

If Option2.Value = True Then

Adodc1.RecordSource = "select * from stud where nm like" +
Text1.Text + "%"

Adodc1.Refresh

End If

If Option3.Value = True Then

Adodc1.RecordSource = "select * from stud where batch LIKE" +
Text1.Text + "%"

Adodc1.Refresh

```
End If  
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)  
KeyAscii = Asc(UCase(Chr(KeyAscii)))  
End Sub
```

PROJECT_DTL_REPORTFRM:

```
Private Sub Combo1_Click()  
Text2.Text = Combo1.Text  
Text1.Text = Combo1.Text  
End Sub
```

```
Private Sub Combo2_Click()  
Text3.Text = Combo2.Text  
Text1.Text = Combo2.Text  
End Sub
```

```
Private Sub Command1_Click()  
If (Option1.Value = True) Then  
    If (DataEnvironment1.Connection1.State) Then  
        DataEnvironment1.Connection1.Close  
    End If  
    DataEnvironment1.Connection1.Open  
    DataEnvironment1.Command6_Grouping Text1.Text  
    DataReport6.Show
```

```

ElseIf (Option2.Value = True) Then
    If (DataEnvironment1.Connection1.State) Then
        DataEnvironment1.Connection1.Close
    End If
    DataEnvironment1.Connection1.Open
    DataEnvironment1.Command5 Text1.Text
    DataReport5.Show
ElseIf (Option3.Value = True) Then
    If (DataEnvironment1.Connection1.State) Then
        DataEnvironment1.Connection1.Close
    End If
    DataEnvironment1.Connection1.Open
    DataEnvironment1.Command4 Text1.Text
    DataReport4.Show
ElseIf (Option4.Value = True) Then
    If (DataEnvironment2.Connection1.State) Then
        DataEnvironment2.Connection1.Close
    End If
    DataEnvironment2.Connection1.Open
    DataEnvironment2.Command2_Grouping
    DataReport9.Show
End If
End Sub
Private Sub Form_Load()
    abc
    With Combo2
        .AddItem "3-1"
        .AddItem "3-2"
    End With
End Sub

```

```

        .AddItem "3-3"
        .AddItem "3-4"
End With
sql = "select distinct year from prjdtl order by year"
Set r = c.Execute(sql)
Combo1.Clear
While r.EOF = False
    Combo1.AddItem r.Fields(0)
    r.MoveNext
Wend
Combo1.Visible = False
Combo2.Visible = False
Text2.Visible = False
Text3.Visible = False
Text2.Locked = True
Text3.Locked = True
End Sub

```

```

Private Sub Option1_Click()
Text1.Text = ""
Text1.SetFocus
End Sub

```

```

Private Sub Option2_Click()
Text1.Text = ""
Text1.SetFocus
Combo1.Visible = True
Text2.Visible = True

```


End Sub

Private Sub Option3_Click()

Text1.Text = ""

Text1.SetFocus

Combo2.Visible = True

Text3.Visible = True

End Sub

Private Sub Text1_Change()

If Option1.Value = True Then

Adodc1.RecordSource = "SELECT DISTINCT
P.BATCH,P.YEAR,P.PRJID,P.PRJTITLE,P.COMPNM,M.ROLLNO,M.NM,
M.REGNO,M.PHNNO FROM PRJDTL P, MEMDTL M WHERE P.PRJID
= M.PRJID AND P.PRJID LIKE '" + Text1.Text + "%'"

Adodc1.Refresh

End If

If Option2.Value = True Then

Adodc1.RecordSource = "SELECT DISTINCT
P.BATCH,P.YEAR,P.PRJID,P.PRJTITLE,P.COMPNM,M.ROLLNO,M.NM,
M.REGNO,M.PHNNO FROM PRJDTL P, MEMDTL M WHERE P.PRJID
= M.PRJID AND YEAR LIKE'" + Text1.Text + "%'"

Adodc1.Refresh

End If

If Option3.Value = True Then

Adodc1.RecordSource = "SELECT DISTINCT
P.BATCH,P.YEAR,P.PRJID,P.PRJTITLE,P.COMPNM,M.ROLLNO,M.NM,
M.REGNO,M.PHNNO FROM PRJDTL P, MEMDTL M WHERE P.PRJID
= M.PRJID AND batch LIKE'" + Text1.Text + "%'"

Adodc1.Refresh

End If

End Sub

Private Sub Text1_KeyPress(KeyAscii As Integer)

KeyAscii = Asc(UCase(Chr(KeyAscii)))

End Sub

GUIDE_REPORTFRM:

Private Sub Command1_Click()

If (Option1.Value = True) Then

 If (DataEnvironment1.Connection1.State) Then

 DataEnvironment1.Connection1.Close

 End If

 DataEnvironment1.Connection1.Open

 DataEnvironment1.Command8 Text1.Text

 DataReport7.Show

ElseIf (Option2.Value = True) Then

 If (DataEnvironment2.Connection1.State) Then

 DataEnvironment2.Connection1.Close

 End If

 DataEnvironment2.Connection1.Open

 DataEnvironment2.Command3

 DataReport10.Show

End If

End Sub

```
Private Sub Option1_Click()  
Text1.Text = ""  
Text1.SetFocus  
End Sub
```

```
Private Sub Option2_Click()  
Command1.SetFocus  
End Sub
```

```
Private Sub Text1_Change()  
If Option1.Value = True Then  
    Adodc1.RecordSource = "select * from guide where code like" +  
Text1.Text + "%"  
    Adodc1.Refresh  
End If  
End Sub
```

```
Private Sub Text1_KeyPress(KeyAscii As Integer)  
KeyAscii = Asc(UCase(Chr(KeyAscii)))  
End Sub
```

MARKING_REPORTFRM:

```
Private Sub Combo1_Click()  
Text2.Text = Combo1.Text  
Text1.Text = Combo1.Text  
End Sub
```

```
Private Sub Combo2_Click()
```

Text2.Text = Combo1.Text

Text1.Text = Combo2.Text

End Sub

Private Sub Command1_Click()

If (Option1.Value = True) Then

If (DataEnvironment1.Connection1.State) Then

DataEnvironment1.Connection1.Close

End If

DataEnvironment1.Connection1.Open

DataEnvironment1.Command11_Grouping.Text1.Text

sql = "SELECT LBL, GRADE, SBMDT FROM DOCMARK WHERE
PRJID=" & Text1.Text & " ORDER BY SBMDT"

Set r = c.Execute(sql)

MsgBox DataEnvironment1.rsCommand11_Grouping.Fields("PRJID")

DataReport13.Sections("pageHeader").Controls("LBLPRJID").Caption =
DataEnvironment1.rsCommand11_Grouping.Fields("PRJID")

DataReport13.Sections("pageHeader").Controls("LBLPRJTTL").Caption
= DataEnvironment1.rsCommand11_Grouping.Fields("PRJTITLE")

DataReport13.Sections("pageHeader").Controls("LBLPRJCOM").Caption
= DataEnvironment1.rsCommand11_Grouping.Fields("COMPNM")

If (r.EOF = False) Then

DataReport13.Sections("pageHeader").Controls("SYNOPSYS").Caption =
r.Fields(0)

DataReport13.Sections("pageHeader").Controls("LBLSYNOPSYS").Caption
= r.Fields(1)

End If

DataReport13.Show

ElseIf (Option2.Value = True) Then

```
If (DataEnvironment1.Connection1.State) Then
DataEnvironment1.Connection1.Close
End If
DataEnvironment1.Connection1.Open
DataEnvironment1.Command12_Grouping Text1.Text
DataReport14.Show
```

```
ElseIf (Option3.Value = True) Then
If (DataEnvironment1.Connection1.State) Then
DataEnvironment1.Connection1.Close
End If
DataEnvironment1.Connection1.Open
DataEnvironment1.Command13_Grouping Text1.Text
DataReport15.Show
```

```
ElseIf (Option4.Value = True) Then
If (DataEnvironment2.Connection1.State) Then
DataEnvironment2.Connection1.Close
End If
DataEnvironment2.Connection1.Open
DataEnvironment2.Command4_Grouping
DataReport16.Show
End If
End Sub
```

```
Private Sub Form_Load()
abc
With Combo2
```

```

.AddItem "3-1"
.AddItem "3-2"
.AddItem "3-3"
.AddItem "3-4"
End With
sql = "select distinct year from prjdtl order by year"
Set r = c.Execute(sql)
Combo1.Clear
While r.EOF = False
    Combo1.AddItem r.Fields(0)
    r.MoveNext
Wend
Combo1.Visible = False
Combo2.Visible = False
Text2.Visible = False
Text3.Visible = False
Text2.Locked = True
Text3.Locked = True
End Sub

```

```

Private Sub Option1_Click()
Text1.Text = ""
Text1.SetFocus
End Sub

```

```

Private Sub Option2_Click()
Text1.Text = ""
Text1.SetFocus

```

```
Combo1.Visible = True
```

```
Text2.Visible = True
```

```
End Sub
```

```
Private Sub Option3_Click()
```

```
Text1.Text = ""
```

```
Text1.SetFocus
```

```
Combo2.Visible = True
```

```
Text3.Visible = True
```

```
End Sub
```

```
Private Sub Option4_Click()
```

```
Text1.Text = ""
```

```
Text1.SetFocus
```

```
End Sub
```

```
Private Sub Text1_Change()
```

```
If Option1.Value = True Then
```

```
    Adodc1.RecordSource = " SELECT * FROM DOCMARK WHERE  
PRJID LIKE " + Text1.Text + "%"
```

```
    Adodc1.Refresh
```

```
End If
```

```
If Option2.Value = True Then
```

```
    Adodc1.RecordSource = " SELECT DISTINCT  
M.LVL,M.CLSROLL,M.NAME,M.REGNO,M.GRADE,P.PRJID,P.YEAR,P.  
BATCH,P.PRJTITLE,P.COMPNM,D.PRJID FROM DOCMARK D ,  
MEMMARK M , PRJDTL P WHERE D.PRJID = M.PRJID AND D.PRJID  
= P.PRJID AND YEAR LIKE" + Text1.Text + "%"
```

```
    Adodc1.Refresh
```

```
End If
```

If Option3.Value = True Then

```
Adodc1.RecordSource = " SELECT DISTINCT  
M.LVL,M.CLSROLL,M.NAME,M.REGNO,M.GRADE,P.PRJID,P.YEAR,P.  
BATCH,P.PRJTITLE,P.COMPNM,D.PRJID FROM DOCMARK D ,  
MEMMARK M , PRJDTL P WHERE D.PRJID = M.PRJID AND D.PRJID  
= P.PRJID AND BATCH LIKE '" + Text1.Text + "%"
```

```
Adodc1.Refresh
```

End If

End Sub

Private Sub Text1_KeyPress(KeyAscii As Integer)

```
KeyAscii = Asc(UCase(Chr(KeyAscii)))
```

End Sub

CERTIFICATE INFOFRM:

Private Sub Form_Load()

```
Adodc1.RecordSource = "select PRJID ,PRJTITLE,COMPNM from  
PRJDTL"
```

```
Adodc1.Refresh
```

```
DataGrid2.Visible = False
```

End Sub

Private Sub Option1_Click()

```
DataGrid2.Visible = False
```

```
DataGrid1.Visible = True
```

If Option1.Value = True Then

```
Adodc1.RecordSource = "select PRJID,PRJTITLE,COMPNM from  
PRJDTL"
```



```
Adodc1.Refresh
```

```
End If
```

```
End Sub
```

```
Private Sub Option2_Click()
```

```
DataGrid1.Visible = False
```

```
DataGrid2.Visible = True
```

```
If Option2.Value = True Then
```

```
Adodc1.RecordSource = "SELECT * FROM CISSUED"
```

```
Adodc1.Refresh
```

```
End If
```

```
End Sub
```

Testing

Software testing is a critical element of software quality assurance and represents the ultimate review of specialization, design and code generation. Design and code generation. Once source code has been generated, s\w must be tested to uncover as many errors as possible before delivery.

- **Objectives :-**

1. Testing is a process of executing a program with the intent of finding an error.
2. A good test case is one that has a high probability of finding an uncovered error.
3. A successful test is one that uncovers an yet uncovered error.

- **Principles:-**

- All tests should be traceable to customer requirements.
- Tests should be planned long before testing begins.
- The pareto principles applies to software testing, It states that 80% of all errors uncovered during that is traceable to 20% of all program components.
- Testing should begin “In the small“ and progress toward testing “in the large”.
- Exhausting testing is not possible.
- To be most effective, testing should be conducted by an independent team.
- A good test has a high probability of finding an error.
- A good test is not redundant.
- A good test should be neither too simple nor too complex.

- **Testing Strategy Issues:-**

- specify product requirements in a quantifiable names long before testing commences.
- states testing objectives explicitly.
- Understand the users of the software and develop a profile for each user category.
- Develop a testing plan that emphasizes “rapid cycle testing.”
- Build “robust” software that is designed to test itself.
- Use effective technical reviews as a filter prior to testing.
- Conduct formal technical review to access the test strategy and test cases themselves.
- Develop a continuous improvement approach for the testing process.
- **Black Box Testing :-**

This test is conducted to test software interface i.e. input and output. It is used to demonstrate that software functions are operational, that input is properly accepted and output is correctly produced. It is also called behavioral testing which focus on the functional requirements of the software. Some sets of input are derived and exercised will all functional requirement for program. It is used to find errors like incorrect function, interface error, error in data structure, external data error, performance error, initialization and termination error. Black box testing is later stage of testing. It covers following areas :-

- How is functional Validity tested ?
- How is system behavior and performance tested?
- What classes of input will make good test cases?
- It the system particularly sensitive to certain input values?
- How are the boundaries of a data class?
- What data rates and data volume can the system tolerate?

- what effect will specific combinations of data have on system operations ?

- **White Box Testing :-**

It is closed examination of procedure details. It is also called “glass box testing”. It is use to derive test case that uses to control structure of the procedural design. It guarantee that all independent paths within a module have been exercised at least once. It exercises all logical decisions on their true and false sides. It executes all loops at their boundaries and also tests internal data structures to ensure their validity. It assumes that

- logic errors and incorrect assumptions are inversely proportional to the probability that a program path will be executed.
- We often believes that a logical path is not likely to be executed when it may be executed on a regular basis.
- Typographical errors (typing) are random while box testing is also used to test “ Basic path “ of program, which is represented as Flow Graph.

- **Verification and Validation :-**

- Verification refer to the set of activities that ensure that software correctly implements a specific function. It is performed by developes to test “ Are we building the product right” ? During development end.

Verification refers to a different Set activities that ensures that the software that has been built is traceable to customer required. It is done by developer and customer both to test “Are we building the right product ? ”

Both test activity are software quality Assurance (SQL) which includes formal technical review, quality and configuration audits, performance monitoring, simulation, feasibility study, documentation review, database review, algorithm analysis, development testing, qualification testing etc.

- **Unit Testing :-**

Unit testing is White Box testing which focus on verification effort on the smallest unit of software – module or program. The module interface is tested to ensure that information properly flows in and out of the program. The local data structure is examined in an algorithm's execution. Boundary conditions are also tested to ensure that all module operates properly. All independent path is also tested.

common error in computations are :-

- Incorrect arithmetic precedence.
 - Mixed mode operations.
 - Incorrect initialization.
 - precision inaccuracy.
 - Incorrect symbolic representation of an expression,
- **Unit test cases uncovered errors like –**
 - comparison of different data types.
 - Incorrect logical operator or precedence.
 - Expectation of equality.
 - Incorrect comparison of variables.
 - Improper loop termination.
 - Failure to exit.

Unit test is performed during coding step to test each unit individually. Unit testing is simplified when a component with high cohesion is designed. when only one function is performed by one component.

- **Integration Testing :-**

A software is collection of programs or module. Each module is individually tested using unit testing, But an integration or combination it generates interface error, global data structure

problem etc. It is a systematic technique for constructing the program structure while at the same time conducting tests to in cover interface error. It is black box.

Integration testing strategy are :-

- Top down Integration.
- Bottom- up Integration.
- Regression Testing.

• **TOP DOWN INTEGRATION :-**

It is an incremental approach to construct a program structure which starts with highest level of module and procedure to the lowest level of module.

Top down integration is performed in a series of five step:-

- a) The Main control module is used as a test driver.
- b) Depending on the integration approach subordinate models are integrated
- c) Test are conducted as each component is integrated.
- d) On completion of each set of test it is replaced with real module.
- e) Regression testing.

For example integration testing is first performed with m1, m2, m3 and m4, then m3 and m7 and last m4.

• **BOTTOM-UP INTEGRATION :-**

It starts with automatic level and proceed to higher level.

STEPS –

- Low level components are combined into cluster.

- 2) A drivers (a control program for testing) is written to coordinate test is written to co-ordinate test.
- 3) The cluster is tested .
- 4) Higher level is tested

For example m10 + m11 are integrated and tested. After that m5, m6 and m7 are integrated as m2 and tested. m8 and m9 are integrated as m4 and tested finally m2, m3 and m4 are integrated as m1 and tested.

- **REGRESSION TESTING :-**

Regression testing is an important strategy for reducing “side effects”.

Each time a new module is added as part of integration testing, the software changes. New data flow paths are established, new i/o may occurs and new control logic is invoked.

Regression testing is the re-execution of some of test that have been already been conducted to ensure that changes have not propagated side effects. It may be conducted manually.

- **ALPHA AND BETA TESTING :-**

When software is built for specific customer, a series of acceptance tests are conducted to enable the customer to validate all requirements. It is conducted by the end user not by the developers.

Acceptance testing can be conducted over a period of week or months. During this period user collects all uncovered errors which are remover by the developer.

Alpha and Beta testing is acceptance testing. The alpha test is conducted at the developer site by a customer. It is conducted in a controlled environments.

The beta test is conducted at one or more customer sites by the end user of the software. During beta testing developer are not present so it is live application of software. The customer records all problems and reports to developer regularly which is short out.

- **SYSTEM TESTING :-**

Software is a complex system which is integrated of multiple modules. Before delivery of software it must be tested according to s/w requirements specification.

It is actually a series of different tests whose primary purpose is to fully exercise the computer based system. software elements are hardware people and information.

- **LEVEL OF SYSTEM TESTING :-**

1) Recovery testing :- software must be recover from faults and resumes processing within specific time. Recovery testing is a system testing that forces the software to fail and verify the recovery.

2) Security testing :- security testing attempts to verify that protection mechanism built into a system will protect it from unauthorized access.

3) Stress testing :- It execute a system in a manner that demands resources in abnormal quality, frequency or volume. It is also called sensitivity testing.

4) performance testing :- It is designed to test the run time performance of software within the context of an integrated system. Performance tests is applied throughout all steps in the testing specially with stress testing it usually requires both hardware and software.

SYSTEM SECURITY MEASURES

Security as a part of software development process is an ongoing process involving people and practices and insured application confidentiality, integrity and availability secure software is the result of security aware software development process where security is built in thus software is developed with security in mind. Security is most effective if planned and managed throughout every stage of software development life cycle (sdcl) specifically in critical applications are those that process sensitive information effective security measures every business should implement today's business environment has changed a lot we hear about hackers stealing valuable company data all the time and holding it for ransom for pawning it on the dark web to the highest bidder this information might be in the form of messages personal data credit card information and other form of sensitive material from ECommerce site. This is a serious breach of a security and could result in severe losses and loss of confidence from your customers which any business would mean the loss of income.

However there are some precautions of business can take to make themselves safer and less prone to attack.

Taking care of your home and resources :

many people in today's workforce are not aware of the many dangers that lurk on the internet. During office many offers check our mail on company computers computers are linked to the whole network infrastructure of the enterprise as such hackers have become clever and devising new ways to penetrate the system without using too much effort. In this regard you find that malware is packaged in a way that seem less than harmful in the form of pictures documents and so forth embedded within this attachments is malware viruses ransomware among others by a single click employee can leave their whole business infrastructure open to attack to prevent all of this a security firm from outside should be contracted to test the system via bridge exercises and also leverage social engineering tactics to test for weak point in the system this so where the weakness and help in the patching process in employee training.

select for a secure eCommerce Platform:-

since every business needs an e-commerce platform it's important to make that platform as safe as possible. One of the key ways to ensure this happens is by using a platform that uses complex object-oriented programming language. This type of platform is more secure than open-source type due to the complexity of the code it is easier to keep things on a tight leash. The admin panel should also be designed in such a way that it's only available on the internal network and inaccessible from outside. There should be a separation between the internal network and all the public-facing servers.

Offsite Data Storage:-

As your business continues to grow, malicious persons are looking to take advantage and steal sensitive information from your system. They want to get access to your financial records, email, customer data, or even employee identification data. All of this data is toxic in the hands of intruders as they will sell it to your competition or hold it over your heads for payment. Off-site data storage solves this problem. For the most sensitive data should be stored outside your business where hackers won't find it. Apart from making sure that the outside location that the data is sent to is secured, a company should also be concerned with how they are sending this data to the off-site facility. When data is being sent over the internet, it should be fully-encrypted so that even if it is intercepted in transit, it will be useless to the thief. Virtual private networks (VPN) can also be used when accessing what matters outside the home network.

Use SSL Encryption for your Website:- Getting an SSL certificate for your site goes a long way in ensuring security for the business, especially when it comes to an eCommerce site where people buy goods and share sensitive data such as credit card information. As I/https in a URL must ensure that your financial transactions are secure, one must implement SSL encryption for business and extended validation SSL certificate is appropriate. EV SSL makes sure that the website belongs to the organisation in question. This not only gives your peace of mind that client activities and transactions are secured, but it also shows that the business is legitimate and it can be trusted.

Use Strong Password

It is responsibility of the company to keep customer data out of the wrong hands. However, the retailer has a responsibility to the customer to help them make use of practices that make it easy for an authorised person to access their account and an easy way to do this it demands that users make password as secure as possible. You can implement this by making sure the password has a minimum number of characters and they incorporate numbers and special characters. Having a longer more complex password will deter criminals from breaching the website via the front end. Other producers that fall into this category include locking work station when they are not in use, encrypting data and storing sensitive data on a secured server.

Don't keep Sensitive

Customer Data Transactions are being processed many stores ask for credit card information for payment purpose. However, this information should not be stored by the business for longer than required later such as credit card numbers that verification value cvv2 and their expiration dates not be kept for longer than necessary according to a standard set forth by the PCI payment card industry security standards council. Old records about such client data should be removed completely from company database. The only information the company might keep should just be for charge back and refund. The danger of keeping such record far outweighs the convenience customer enjoy during the checkout process.

Use web application firewalls While SSL encryption secures data transmitted to and from the website the web application firewalls will protect the site from Denial of Service attacks, brute force attacks, cross site scripting among others. This type of protection is inexpensive and does not need a lot of time or expertise to configure.

Printer protection

Printers are some of the most common business device today and people don't usually consider the effect that have a security. The problem is that many businesses are unaware of the information that they stored in their limited on board memory. Scanned and printed document may be saved on them which means that pulling

information of a poorly secured printer is relatively easy for a smart cybercriminals to keep your printer secure disable things like printer sharing and property forward connections to your network rather than wireless connectivity you may want to OPD for printers that automatically purge there on board memory to keep your data that much more secure.

Surveillance

knowing who is on and around your premises is key to returning thieves. The best way to conduct this is through the use of surveillance system. Implementing a surveillance system is a smart move because of how cost efficient and compact some system can be imagine that extends the functionality of a log book to cover everyone with a record of their face their clothing and plethora of other qualities that can be used later for identification purpose and treat assessment.

Making your Business Secured

While the outline security measures above will be lost or your business security they are by no means the limit to what you should implement things like better encryption stricter security protocols and Indian physical and digital access to your business as you continue to grow and acquire more customers and employees good security practices are key to your ongoing success.

Future scope

This application can be easily implemented under various situations. We can add new features as and when require in this application. There is flexibility in the all modules

SOFTWARE SCOPE

Extensibility: This software is extendable in ways that its original developers may not expect. The following principles enhances extensibility like hide data structure, avoid traversing multiple links or methods, avoid case statements on object type and distinguish public and private operations.

Reusability: Reusability is possible as and when require in this application. We can update it next version. Reusable software reduces design, coding and testing cost by amortizing effort over several designs. Reducing the amount of code also simplifies understanding, which increases the likelihood that the code is correct. We follow up both types of reusability: Sharing of newly written code within a project and reuse of previously written code on new projects.

Understandability: A method is understandable if someone other than the creator of the method can understand the code (as well as the creator after a time lapse). We use the method, which small and coherent helps to accomplish this.

Scope of this document is to put down the requirements, clearly identifying the information needed by the user, the source of the information and outputs expected from the system.

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Conclusion

While developing the system a conscious effort has been made to create and develop a software package, making use of available tools, technique resources-that would generate a proper system.

While making the system, an eye has been kept on making it is user-friendly, as cost-effective and as flexible as possible. As such one may hope that the system will be acceptable to any user and will adequately meet his/her needs.

As in case of any system development processor where there are number of shortcomings, there have been some shortcomings in the development of this system also. The project is still under modification.

