**Chapter 3**

**Proposed System**

The proposed system will be online system. All the important data will be properly organized and store and will be processed form required output to provide timely information. Proposed system will provide necessary information with accuracy and efficiency. Proposed system is designed keeping in mind all the problems being faced in the present in existing system.

**3.1 Phase of the Proposed System**

From the study of existing system to the implementation of the proposed system following are the Phases that involves.

**3.2 Preliminary Investigation**

A preliminary study is typically initial when someone recognizes that the behavior of a system does not match the expectation that some on of importance has for it this situation arises because there has been a change in the

* Behavior of the system
* Expectations of how the system should behave, or
* Perceptions of how the system behaves and how that behavior matches expectation

This is the first phase consisting of the following steps

**3.3 Reason for Change**

In this phase we study the problems faced by the existing system and describe the reasons, when new system is need instead of old system.

**3.4 Problem Definition**

In this phase, the system analyst’s study the actual problem objectives identify the overall goals of the project without considering how these goals will be achieved. Scope identifies the primary data, functions and behavior that characterize the problem and more important attempts to bind these characteristics in quantitative manner.

**4.5 The Scope of the Problem**

This step defines the specific area in which problem lies.The helps the analyst to focus the attention on the concerned area and not to interfere in the other parts of the system.

**Proposed System Capabilities**

The main objective of the proposed system is to solve the aforesaid problems in the existing system. The main reason for fully computerization of the existing system is to obtain accuracy and results in less time and in proper format.

* The proposed system would be comprehensive database consisting insertion modification, deletion and retrieval of data.
* Generate necessary reports.
* Database security will be the main feature of proposed system.
* System would be error free reliable and provide up-to-date information.

**3.6 Objective of Proposed System**

* **Comprehensive Database**

The proposed system has comprehensive database in which insertion, modification, retrieval about record and facilities of various quires and reports are available.

* **Minimize The Redundancy**

The proposed system has no redundancy. This means that the files are designs is such a way that minimum data is duplicated is the files minimizing the amount to redundant data reduces problems associated with amendment insertion and deletion of data.

* **Ease Of Operation**

Menu driven facility is provided in the proposed system. Hence it is easier to operate.

The end-user can easily operate the proposed system and having an attractive front-end.

* **Economically**

The majority of the information systems are expected to satisfy economic objective. Thus the proposed system should be cost beneficial when compared with the existing system. Economically this proposes system is well as compare to existing system. The existing system has multiple time expenses. The propose system have one time an expense hoe is it? Because in the existing system all applications perform on individual registered when there registered system can store unlimited record and also we can delete the expired data. So the proposed system is beneficial.

* **User Friendly**

Authorized staff should communicate with the system through conversation. The proposed system should be friendly and provide help for user, when required.

* **Flexibility**

The effort required modifying an operational program. The system ca easily changeable if the library will need to change his rule. The system allows for changes to incorporated future requirements of the users.

* **Reliability**

There is no doubt that the reliability of a computer program is an important element of its overall quality, if a program repeatedly and frequently fails to perform, it matter little whether other software quality factor are acceptable.

This system is more reliable because it can be run at every Microsoft platform live windows98, windows 2000, windows XP, windows vista and windows 7. So the new system should be more reliable than the previous one. The enhancement should easy in the system.

* **Accuracy**

The system should provide accurate and error free information. It should ensure efficient and accurate record keeping. Accuracy is very important and beneficial factor of proposing system. In the manual system the human can mistakes or forget any information. The computerized system helps us for out requirement accurately. In the retrieval or updating any record, the relational database can retrieve or update the record, accurately and error free information.

* **Data Security**

Data security is the protection of the database against accidental or intentional loss, destruction, or misuse. So the data required for decision-making is highly sensitive and valuable. In proposed system, only authorized person should be able to modify or record of master file.

* **Efficiency**

Efficiency is the degree to which we minimize utilization of resources for archiving an object. The proposed system is more efficient than the existing manual system. Efficiency is the amount of computing resources and code required by a program to perform its function.

* **Performance**

The propose system should reduce the time and efforts required retrieving information. It should have the capability to answer various queries instantly and efficiently.

* **Usability**

The goal of the proposed system is keep everything nice and simple for all users. The application should be as self documented as possible, and the user should be as self documented as possible, and the user should not need to memories a lot to use it comfortably.

* **Data Independence**

The system design should provide complete data independence using different data techniques. By data independence, we mean that particular information can be entered in respect of its occurring. The separation of data descriptions from the application programs that use the data is called data independence. It means that an organization’s data can be change and evolve (within limits) without necessitating a change in the application programs that process the data.

**3.7 Detail working of Proposed System**

This project covers almost every aspect about student academic information. It provides the information about the student according to their academic session. It facilitates that a student or teacher can view the EBook that is uploaded by teacher. It also facilitates that a student can view which teacher is giving the assignments, to do this student will enter class, session, semester, subject and assignment number and click the submit button the required information will be displayed. It also facilitates that a student can view the timetable of any class; to do this student will enter the class, session, semester, and subject then click submit button required information will be displayed. It also facilitates that a student can view the date sheet of any class to do this enter the session; semester and class the required information will be displayed.

Student can also upload assignment to the teacher with their name, roll number, class, session, assignment number, and submission date and click the brows button to select the targeted document and click the submit button the assignment will be uploaded if it is already uploaded it will display a message that this is already uploaded and uploaded success fully. Student can also view the result of their subject, to do this student simply enter the subject name the required information will be displayed.

Admin Control Panel user includes teachers and clerks also use these facilities that have user name and password from the department. Teachers have also checked the attendance, assignment, and results and upload to the database that can be viewed by the student from the student login. Teachers also view the E-Book that is uploaded by them. Teachers also can take the attendance from the attendance table. Teachers can views the students uploaded assignments and also mark the assignment and giving the assignment’s marks to the student.

Teacher can also upload the student attendance, view the attendance and also generate the attendance report from the student roll number associated with their subject. Teacher also views the student result from the student roll number associated with their subject and generates the report of student result.

Clerks also upload date sheets of all classes, timetable of all classes; they also view the student attendances. If someone forget the password it provided the security question to recover the password, this security question is asked at the time of registration. It is important that you must remember the password otherwise if sometime you forget your password the security question helps to recover the password. If you forget your security question you can never recover your password until you remember your password. This security question is compulsory for every authorized user and the security answer is also compulsory otherwise will never access the required facilities.