# **Chapter 1: Introduction**

## **Project Introduction**

Mark Sheet Generator is a student database management system that not only deals with management of the student database but also prepare student progress report.   
  
At initial level, before to proceed the development of this system, its requirement needs to identify. For this analysis is to be carried out. Similarly, structural, behavioral diagrams can help to know about the system design. Therefore, design needed to be carried out. Prototypes can help in visualization of the front end and the functionality the system. Therefore design is done. After this, the system development core part i.e. coding is performed. Based on the diagrams prepared in the design phase, programming of the system is carried out. Finally, completed system is to be tested to make sure the system is free from any sorts of problems. System will be deploy in later stages and all the proper maintenance steps will be adopted.

All of the stages of waterfall model are followed in order to complete this project. Therefore, the Mark Sheet Generator, a desktop application with its functionality is prepared.

## **Background and Justification**

Many educational institutions consist of a provision to take examination, which help to track down the progression in the academics of the students. However, in many of the institution, the reports of such examination are lately provided to the students. This is not fruitful as it only consume time just to prepare result of the students.   
Therefore, for resolving such issues, Mark Sheet Generator was proposed. Finally, considering all the requirements, this project is carried out.

## **Overview of the Project**

**Mark Sheet Generator** is the system that will increase the performance of educational institute in result making. This can certainly increase the efficiency and can put positive impact of institution. By its silent features user will feel easier in use.  
However, not all the functionality is included. Those functionalities will be updated in later version of the system.

## **Aims and Objective**

As per the proposal the aims of this project were:

1. Service oriented software that provides help in academic sectors is the core aim of this project.
2. Provide academic reports in minimum time to conserve time and increase efficiency.
3. Prepare error less mark sheet.
4. Maintain the student database to get details about the student.

During system development, all of the above listed aims are successfully achieved. All of these aims are achieved by following the objectives.

The objectives of this project were:

* To maintain the record data integrity without the data breaches.
* To maintain academic history of students so that academically poor students could be treated specially.
* To record the students details in managed way.
* To make the students’ mark sheet.
* To trace the students’ academic progress.
* To show the students’ progress in grades and percentage.
* To make the user-friendly environment set- up.

Keeping all of the objectives in priority, the project was initiated and completed. The project fulfills all of its aims.