

Synopsis of MarkSheet Generator

AIM

The aim of the Marksheet Generation System is to develop a simple console-based application in Ruby that automates the process of calculating and displaying student marksheets.

OBJECTIVE

- 1) To allow user to enter their details.
- 2) Compute total marks, percentage, and grade.
- 3) Minimize the errors in computation of the grades.
- 4) Display a structured marksheet in the console.

INTRODUCTION

The Marksheet Generation System is a simple console-based application developed in Ruby that automates the process of calculating and displaying student marksheets. This application allows users to input student details and subject-wise marks, processes the data, and generates a structured marksheet with total marks, percentage, and grade.

PROPOSED SYSTEM / WORKING

The **Marksheet Generation System** is a **console-based Ruby application** that takes input from the user, processes the data, and generates a marksheet with results. The working process is as follows:

1. **User Input:**

- The user enters student details such as **Name, Roll Number, Class, and Number of Subjects**.
- The user then provides details for each subject, including **Subject Name, Maximum Marks, and Obtained Marks**.

2. **Processing:**

- The system calculates the **total marks** obtained by the student.
- It computes the **percentage** based on the total marks.

- The **CGPA** is determined from the percentage.
- The **final grade** is assigned based on the CGPA using predefined grading criteria.

3. **Output:**

- The system displays the **Marksheet** with all details, including the **student's Name, Roll Number, Subject-wise Marks, Total Marks, Percentage, CGPA, and Final Grade**.

This automation ensures accuracy, reduces manual errors, and provides a structured and readable marksheet.

CONCLUSION

The **Marksheet Generation System** is a simple yet effective **console-based application in Ruby** that automates the process of calculating student results.

This project eliminates manual calculation errors and provides a **structured, user-friendly** way to generate marksheets. It can be further enhanced with additional features such as **data storage, report generation, and graphical representation of results**.

Overall, this project serves as a **reliable and efficient** solution for generating student marksheets with minimal effort.