

MEMBER 3 – ATTENDANCE MANAGEMENT (JAVA DEVELOPMENT)

Name: SHAIK SOHAIL BASHA

Main Responsibility

Develop and manage all **Java code related to student attendance tracking and calculation.**

This member ensures accurate attendance records and eligibility status for students.

Role Overview

The Attendance Management Module monitors **student presence and participation.**

Marks, results, and backlog modules depend on attendance data for eligibility decisions.

Incorrect attendance data can directly affect **student eligibility and academic outcomes.**

Responsibilities (Java Development Tasks)

1. Attendance Class Design

- Create an Attendance Java class
- Define attributes such as:
 - Roll Number
 - Subject Code
 - Total Classes
 - Classes Attended

Purpose:

To store attendance details for each student and subject.

2. Attendance Calculator Class

- Create an AttendanceCalculator Java class
- Implement logic to:

- Calculate attendance percentage
- Determine attendance status (Eligible / Not Eligible)

Purpose:

To automate attendance evaluation.

3. Daily Attendance Recording

- Write Java logic to:
 - Record daily attendance for each student
 - Update total classes and attended classes
 - Prevent duplicate entries for the same day

Purpose:

To maintain accurate day-to-day attendance records.

4. Attendance Percentage Calculation

- Automatically compute attendance percentage using Java
- Update attendance values whenever new records are added

Purpose:

To provide real-time attendance status.

5. Attendance Eligibility Check

- Apply predefined attendance criteria
- Identify students with attendance shortages

Purpose:

To determine whether a student meets minimum attendance requirements.

6. Share Attendance Data with Backlog Module

- Send attendance shortage details to:
 - Backlog Module
- Provide roll number and shortage percentage

Purpose:

To support backlog and eligibility processing.