

# Module Name: Timetable Management

## 1. Problem Statement

Manually preparing class and teacher timetables often leads to conflicts such as double-booked teachers, overlapping classes, or unavailable rooms. Updating schedules mid-year becomes difficult and requires reprinting and redistribution.

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## 2. Module Description

This module enables administrators to create, update, and publish weekly timetables for each class and section. It assigns teachers to subjects and timeslots while automatically detecting scheduling conflicts. Students, parents, and teachers can view their respective timetables digitally.

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## 3. Users

**Admin**

**Principal (view only)**

**Teachers (view own timetable)**

**Students/Parents (view only)**

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## 4. Features

Create and edit weekly class timetables

Assign teachers, subjects, timeslots, and rooms

Automatic detection of conflicts (teacher double-booking or room clashes)

Publish updated timetables to teachers, students, and parents

View subject-wise, class-wise, and teacher-wise timetables

Export timetables for printing or reporting

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## 5. Inputs / Outputs

**Inputs:**

Class/section details

Subjects and allotted periods

Teacher assignments

Room allocation (optional)

**Outputs:**

Published class timetable

Teacher-specific timetable

Conflict notifications

Printable/exportable timetable layouts

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## **6. User Time & Workload**

**Admin:** High usage during academic year setup and schedule modifications

**Teachers/Students/Parents:** Frequent viewing but minimal interaction

→ Overall: **Medium-high priority module** due to its impact on daily operations.

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