

Misuse Analysis in Bobby School Management

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Types of Malicious Actors

Malicious Student: Manipulates grades/attendance, intimidates others.

Malicious Teacher: Unfair grading, deletes submissions, personal bias.

Malicious Administrator: Alters records/schedules, fakes data.

External Hacker: Breaches system to steal or disrupt operations.

UC1: Student Registration

Legitimate Use: Register new students with accurate details.

Misuse: Malicious admin creates fake profiles.

UC2: Attendance Tracking

Legitimate Use: Teachers mark and students/parents view attendance.

Misuse: Teacher or student alters attendance records.

UC3: Performance Records

Legitimate Use: Teachers enter grades; students/parents view.

Misuse: Tampering with performance records.

UC4: Promotion History

Legitimate Use: Update student promotion status.

Misuse: Fake or biased promotion updates.

UC5: Teacher Profile Management

Legitimate Use: Update/view teacher profiles.

Misuse: Impersonation or unauthorized edits.

UC6: Schedule Management

Legitimate Use: Admin assigns teacher schedules.

Misuse: Conflicting or intentional overload.

UC7: Subject Assignment

Legitimate Use: Admin assigns subjects fairly.

Misuse: Fake or biased assignments.

UC8: Teacher Attendance Management

Legitimate Use: Mark/monitor teacher attendance.

Misuse: Falsified attendance for payroll benefits.

UC9: Performance Reviews

Legitimate Use: Admin evaluates teacher performance.

Misuse: Biased or revenge-based reviews.

UC10: Timetable Generation

Legitimate Use: Create conflict-free timetables.

Misuse: Tampering leads to chaos.

UC11: Subject Allocation

Legitimate Use: Allocate subjects to classes/teachers.

Misuse: Overloads or mismatches.

UC12: Classroom Allocation

Legitimate Use: Assign rooms for sessions.

Misuse: Causes disruptions or confusion.

UC13: Exam Schedule Management

Legitimate Use: Publish exam schedules.

Misuse: Overlaps, confusion, or missing entries.

Legitimate Use: Submit grades for students.

Misuse: Favoritism or downgrading.

UC15: Report Card Generation

Legitimate Use: Generate and share report cards.

Misuse: Fake report cards.

UC16: Role-Based Access Management

Legitimate Use: Assign system roles appropriately.

Misuse: Excessive access granted to wrong users.