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Use Case Description – School Management System (SMS)

Use Case 1: Student Registration

Use case Section	Comment	
Use case no	1	
Use case name	Student Registration	
Actor	Student, Administrator	
Type	Primary	
Description	Student registers online and administrator approves the registration.	
Pre-condition	Student must have access to registration portal.	
Post-condition	Student account is successfully created in the system.	
	Actor action	**System response**
	1. Student opens registration form	
	2. Student fills required details and submits	3. System validates entered details
Normal flow		4. System stores student data and notifies admin
		5. Administrator approves registration
		6. System activates student account
Alternative flow	A1.1 If required fields are missing, system shows error message. A1.2 If registration is already done, system shows "Duplicate Account" warning.	

Use Case 2: Course Enrollment

Use case Section	Comment
Use case no	2
Use case name	Course Enrollment
Actor	Student, Administrator
Type	Primary
Description	Student enrolls in available courses/subjects.
Pre-condition	Student must be registered and logged into system.
Post-condition	Courses are successfully added to student's profile.

Use case Section	Comment	
	Actor action	**System response**
Normal flow	1. Student selects "Enroll Courses"	
	2. Student chooses subjects from list	3. System checks prerequisites and availability
		4. System updates enrollment record
		5. Administrator reviews/approves (if required)
Alternative flow	A2.1 If course capacity is full, system shows "Enrollment Closed". A2.2 If prerequisites not met, system shows error.	

Use Case 3: Fee Payment

Use case Section	Comment	
Use case no	3	
Use case name	Online Fee Payment	
Actor	Student, Parent, Administrator	
Type	Primary	
Description	Students/parents pay school fees online through the system.	
Pre-condition	Student must have an active account; payment gateway must be available.	
Post-condition	Fee is successfully recorded, and receipt is generated.	
	Actor action	**System response**
Normal flow	1. Student/Parent selects "Pay Fee"	
	2. Enters payment details	3. System verifies payment details
		4. System processes payment
		5. System generates digital receipt
		6. Administrator updates student's fee record
Alternative flow	A3.1 If payment fails, system shows error message. A3.2 If gateway is down, system suggests retry later.	

Use Case 4: Attendance Management

Use case Section	Comment	
Use case no	4	
Use case name	Attendance Management	
Actor	Teacher, Administrator	
Type	Primary	
Description	Teachers and administrators record and update attendance.	
Pre-condition	Student must be enrolled in a course.	
Post-condition	Attendance is saved and available for reports.	
Normal flow	**Actor action**	**System response**
	1. Teacher selects class list	
	2. Teacher marks attendance (Present/Absent)	3. System saves attendance record
		4. System updates student's attendance status
		5. Attendance available for reporting
Alternative flow	A4.1 If internet fails, teacher can save offline and sync later. A4.2 If wrong date entered, system prompts correction.	

Use Case 5: Grade Entry and Viewing

Use case Section	Comment	
Use case no	5	
Use case name	Grade Entry and Viewing	
Actor	Teacher, Student, Parent	
Type	Primary	
Description	Teachers enter grades, students and parents view them.	
Pre-condition	Student must be enrolled; teacher must have access rights.	
Post-condition	Grades are successfully stored and visible to student and parent.	
Normal flow	**Actor action**	**System response**
	1. Teacher selects class and subject	
	2. Teacher enters grades	3. System validates and stores grades
		4. System updates student profile
		5. Students and parents can view grades
Alternative flow	A5.1 If grades entered incorrectly, teacher can edit before final submission. A5.2 If system crashes, grades are saved in draft mode.	

Use Case 6: Library Management

Use case Section	Comment	
Use case no	6	
Use case name	Library Management	
Actor	Librarian, Student	
Type	Primary	
Description	Manage book issue, return, and overdue fines.	
Pre-condition	Student must have a valid account; librarian must have book records.	
Post-condition	Books issued/returned successfully; fines updated if late.	
Normal flow	**Actor action**	**System response**
	1. Student requests book	
	2. Librarian issues/returns book	3. System updates library record
		4. System updates student account
		5. System generates receipt if fine applied
Alternative flow	A6.1 If book unavailable, system shows waiting list option. A6.2 If student exceeds limit, system denies issue.	