Name: Syed Mustafa

Registration Number: SP23-BSE-015

Use Case 1: Submit Proposal

Use Case Name: Submit Proposal

Actor: Student

Goal in Context: The student wants to submit a proposal document for the assigned project.

Preconditions:

The student must be logged into the system.

The student must be part of a group.

The project must be assigned.

Postconditions:

- Proposal is submitted and saved in the system.
- Submission date is recorded.

Main Success Scenario (Basic Flow):

- Student logs into the system.
- Navigates to the proposal submission section.
- Uploads the proposal document.
- Enters any required metadata (e.g., title, description).
- Submits the proposal.
- System stores the proposal and confirms submission.
- System logs the date and time of submission.

Extensions (Alternative Flows):

1. If the file format is invalid, system shows an error message.

2. If required fields are missing, system prevents submission and displays a prompt.

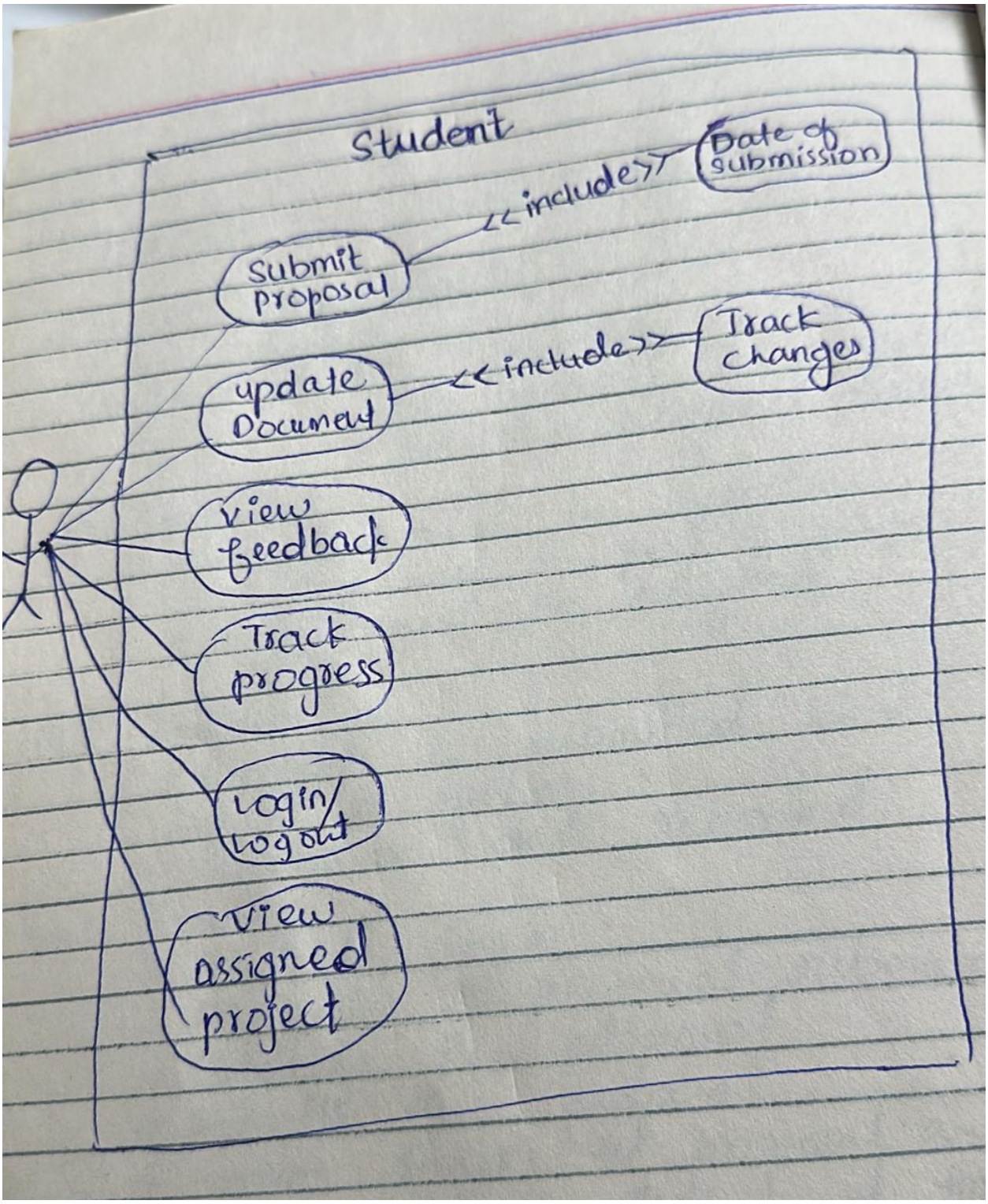
Includes

Date of submission

Special Requirements

The uploaded document must be in PDF or DOCX format.

Maximum file size allowed: 10MB.


Student
Submit proposal
<<include>>
Date of submission
update Document
<<include>>
Track changes
View feedback
Track progress
Login/ Logout
View assigned project

Name: Rana Asad Ur Rahman

Registration Number: SP23-BSE-029

Fully Dressed Use Case: Update Project Status

Use Case Name	Update Project Status
Scope	Project Management System
Level	User goal
Primary Actor	Faculty
Stakeholders and Interests	- **Faculty**: Wants to reflect the accurate status of the project based on its progress. - **Students**: Want to be informed of their project's progress. - **Admin**: Needs accurate records for tracking and reporting.
Preconditions	- Project exists in the system. - Faculty is assigned as the advisor to the project. - User is authenticated.
Post conditions	- Project status is updated successfully in the system.
Success Metrics	The status of the project is updated to the selected new status and stored correctly.
Minimal Guarantee	The system logs the update attempt even if it fails and shows an appropriate error message.

💼 Main Success Scenario (Basic Flow)

1. Faculty logs into the system.
2. Faculty navigates to the project list and selects a specific project.
3. Faculty clicks on the “Update Status” button.
4. The system displays current project status and a list of valid status options (e.g., "Not Started", "In Progress", "Completed").
5. Faculty selects a new status and clicks “Submit”.
6. The system validates the change.
7. The system updates the project status in the database.
8. The system confirms the update with a success message.
9. Project status is now reflected in the project details.

🔁 Extensions (Alternate Flows)

3a. Project not found

- 3a1. System shows an error: "Project not found."
- 3a2. Use case ends.

5a. Invalid status selected

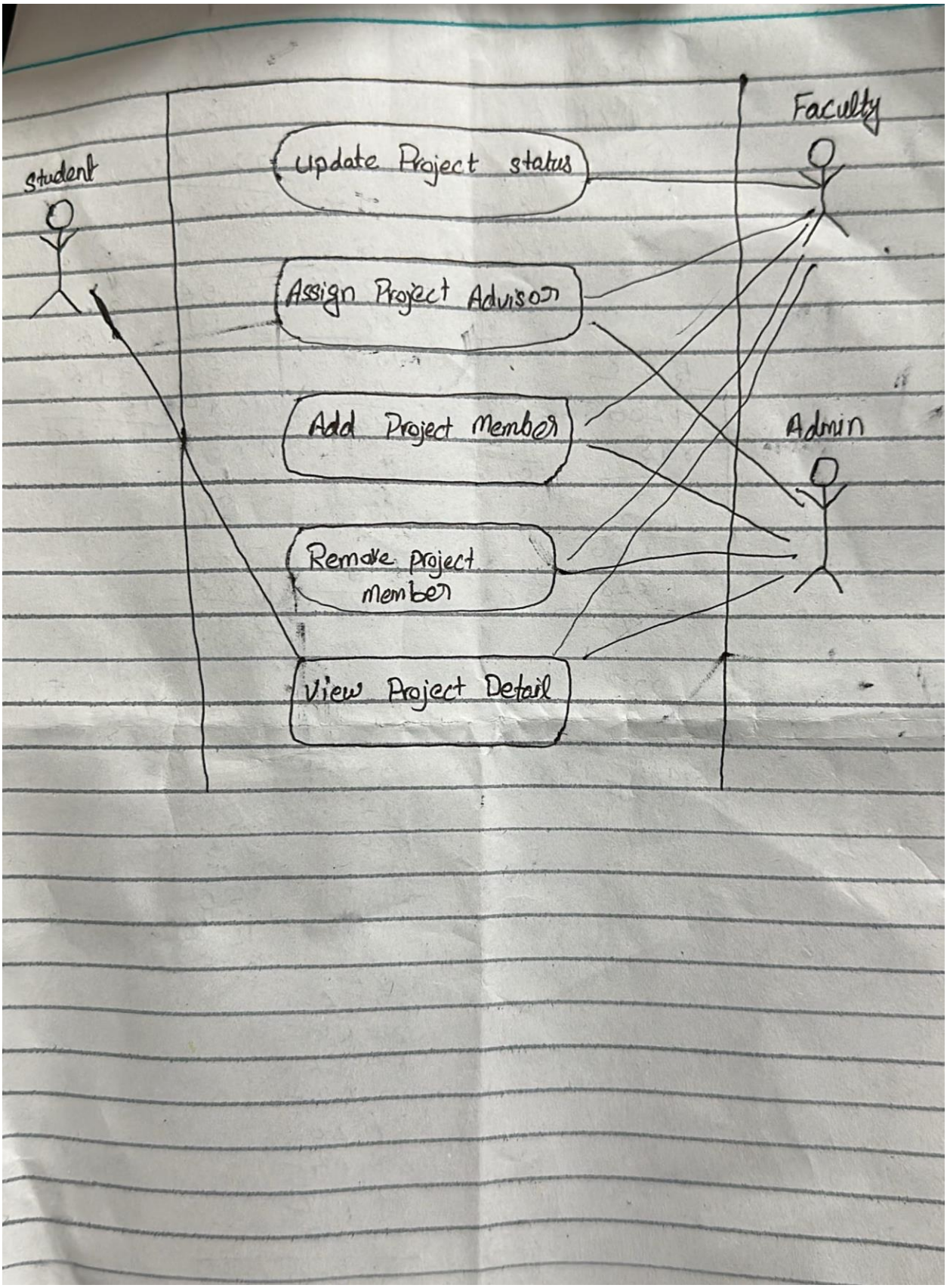
- 5a1. System shows an error: "Invalid status."
- 5a2. Faculty selects a valid status.
- 5a3. Returns to step 6.

6a. Database update fails

- 6a1. System displays error: "Failed to update project status."
- 6a2. Faculty retries or contacts admin.
- 6a3. Use case ends.

🔐 Special Requirements

- The system must validate user permissions before allowing the update.
- Status values must be predefined and consistent (possibly from an enum).
- Audit trail should log the date/time of the update and the actor's ID.


student
Faculty
Admin
update Project status
Assign Project Advisor
Add Project Member
Remove project member
View Project Detail

Comprehensive Use Case Specification for Admin in FYP Management System

1. System Overview

The **Final Year Project (FYP) Management System** allows university administrators to manage student projects, supervisors, evaluations, and system configurations. The **Admin** is the primary actor responsible for maintaining data, generating reports, and ensuring smooth system operations.

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2. Actors

Actor	Description
Admin	Manages students, supervisors, projects, and system settings.
Student	(Secondary) Submits project proposals and reports.
Supervisor	(Secondary) Guides students and evaluates projects.

---

3. Detailed Use Cases

Use Case 1: Login to System

- **Actor:** Admin
- **Description:** Admin logs into the FYP Management System.
- **Preconditions:** Admin has valid credentials.
- **Basic Flow:**

1. Admin enters email and password.
2. System verifies credentials.
3. On success, redirects to Admin Dashboard.

- **Alternative Flow:**

  - If credentials are invalid, system displays an error.

Post conditions: Admin gains access to the system.

Use Case 2: Manage Students

- **Actor:** Admin
- **Description:** Admin adds, edits, or removes student records.
- **Preconditions:** Admin is logged in.
- **Basic Flow:**

1. Admin clicks **"Manage Students"**.
2. System displays a list of students.
3. Admin selects:

- **Add Student**: Enters (Name, ID, Email, and Program).
- **Edit Student**: Modifies existing details.
- **Delete Student**: Removes record after confirmation.

4. System validates and updates the database.

- **Alternative Flows:**

- If student ID already exists, system rejects duplication.

Post conditions: Student records are updated.

Use Case 3: Manage Supervisors

- **Actor:** Admin
- **Description:** Admin adds or assigns faculty supervisors.
- **Preconditions:** Admin is logged in.
- **Basic Flow:**

1. Admin clicks **"Manage Supervisors"**.
2. System shows the list of supervisors.
3. Admin:

- **Adds Supervisor** (Name, Department, Max Projects).

- **Assigns Supervisor** to a project.

4. System checks availability and updates records.

- **Alternative Flows:**

- If supervisor’s project limit is exceeded, system shows an error.

Post conditions: Supervisor assignments are updated.

Use Case 4: Manage Projects

- **Actor:** Admin
- **Description:** Admin creates, assigns, and tracks FYP projects.
- **Preconditions:** Students and supervisors are registered.
- **Basic Flow:**

1. Admin clicks **"Manage Projects"**.
2. Chooses:

- **Create Project** (Title, Description, and Deadline).
- **Assign Student & Supervisor** (from dropdown lists).

3. System validates and links them in the database.

- **Alternative Flows:**

- If a student is already assigned, system prevents duplication.

Post conditions: Project is added and visible in tracking.

Use Case 5: Generate Reports

- **Actor:** Admin
- **Description:** Admin exports project progress or evaluation reports.
- **Preconditions:** Projects exist with submission data.
- **Basic Flow:**

1. Admin clicks **"Generate Reports"**.
2. Selects report type:

- **Progress Report** (Student milestones).
- **Evaluation Report** (Supervisor feedback).

3. Filters by Department/Date Range.
4. System compiles data into **PDF/Excel**.
5. Admin downloads or prints.

- **Alternative Flows:**

- If no data exists, system displays "No records found."

Post conditions: Report is generated for review.

Use Case 6: System Configuration

- **Actor:** Admin
- **Description:** Admin sets deadlines, grading rules, and permissions.
- **Basic Flow:**

1. Admin clicks **"System Configuration"**.
2. Updates:

- **Submission Deadlines** (e.g., Proposal: 30-May-2024).
- **Grading Criteria** (e.g., 70% for final report).

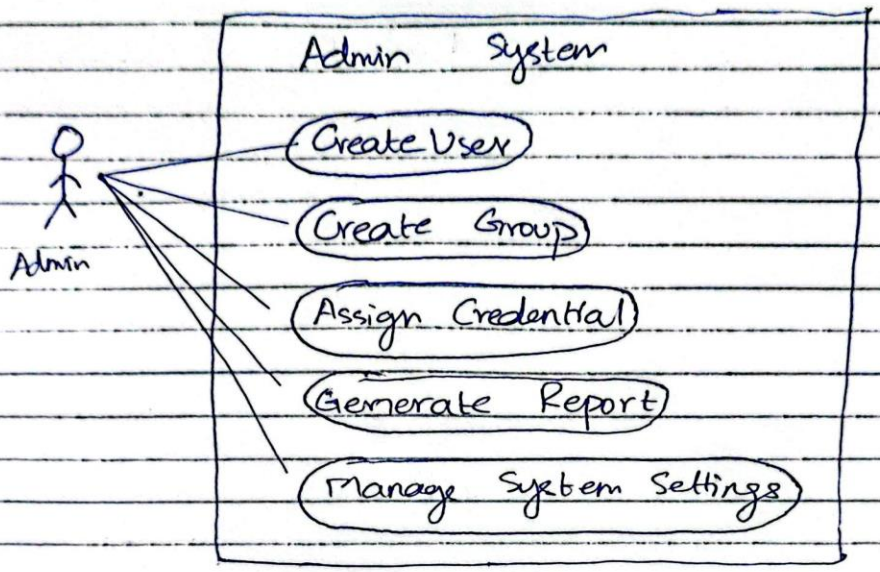
3. System saves changes and notifies affected users.

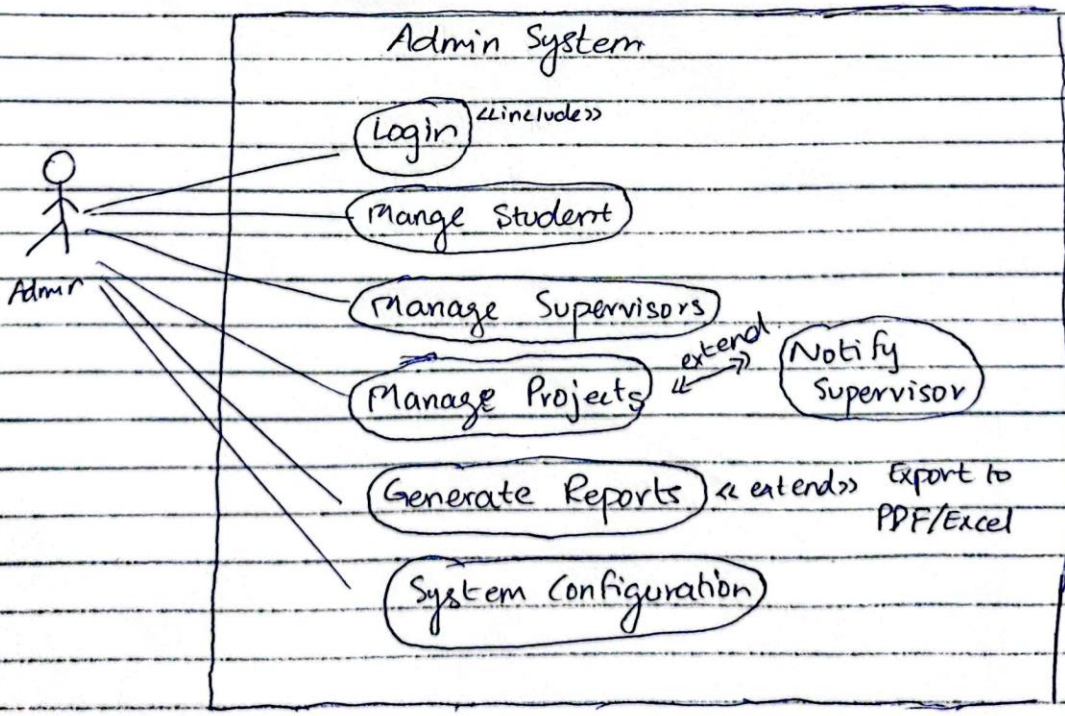
- **Alternative Flows:**

- If a deadline is in the past, system rejects it.

Postconditions: System settings are updated.

ZARAK


Admin System
Create User
Create Group
Assign Credential
Generate Report
Manage System Settings
Admin


Admin System
Login
«include»
Manage Student
Manage Supervisors
Manage Projects
extend
Notify Supervisor
Generate Reports
«extend»
Export to PDF/Excel
System Configuration
Admin

Name: Abdullah

Reg No: SP23-BSE-116

Use Case 1: addMember()

Use Case Name: Add Member

Scope: Group Management

Level: User goal

Primary Actor: Administrator

Stakeholders and Interests:

Administrator: Wants to add students to a group efficiently.

Students: Want to be part of the correct group for their semester project.

Preconditions:

- The group must already exist.
- The student must be registered in the system.
- The student is not already part of another group.

Postconditions:

The student is successfully added to the group's member list.

Main Success Scenario (Basic Flow):

- Administrator selects an existing group.
- Administrator selects a student to add.
- System checks if the student is already part of any group.
- System adds the student to the selected group.
- System confirms the addition and displays updated group information.

Extensions (Alternate Flows):

3a. If the student is already part of another group:

→ System shows an error message and aborts the addition.

4a. If the group has reached its member limit:

→ System prevents the addition and notifies the administrator.

Special Requirements:

- Real-time validation of student eligibility.
- Notification sent to the student upon successful addition.

✅ **Use Case 2:** removeMember()

Use Case Name: Remove Member

Scope: Group Management

Level: User goal

Primary Actor: Administrator

Stakeholders and Interests:

Administrator: Needs control over group membership.

Students: Should be properly removed if they withdraw or switch groups.

Preconditions:

- Group and student must exist.
- Student must already be a member of the group.

Postconditions:

The student is removed from the group member list.

Main Success Scenario (Basic Flow):

- Administrator opens group details.
- Administrator selects the student to remove.
- System verifies the student's membership in the group.
- Student is removed from the list.
- System confirms removal.

Extensions (Alternate Flows):

3a. If the student is not found in the group:

→ System notifies the admin and aborts the removal.

4a. If the removed student is a group leader:

→ System prompts to assign a new leader or continue.

Special Requirements:

Notification sent to the student upon removal.

✅ **Use Case 3:** assignAdvisor()

Use Case Name: Assign Advisor

Scope: Group Management

Level: User goal

Primary Actor: Administrator

Stakeholders and Interests:

Administrator: Needs to assign supervisors fairly and efficiently.

Supervisors: Want to be assigned groups within their capacity.

Students: Need an advisor for guidance.

Preconditions:

- Group must exist.
- Advisor must be registered.
- Advisor must be available (not exceeding their group limit).

Postconditions:

Advisor is successfully linked to the group.

Main Success Scenario (Basic Flow):

- Administrator selects a group.
- Administrator chooses an advisor from a list.
- System checks advisor's availability.
- Advisor is assigned to the group.
- Confirmation message is shown.

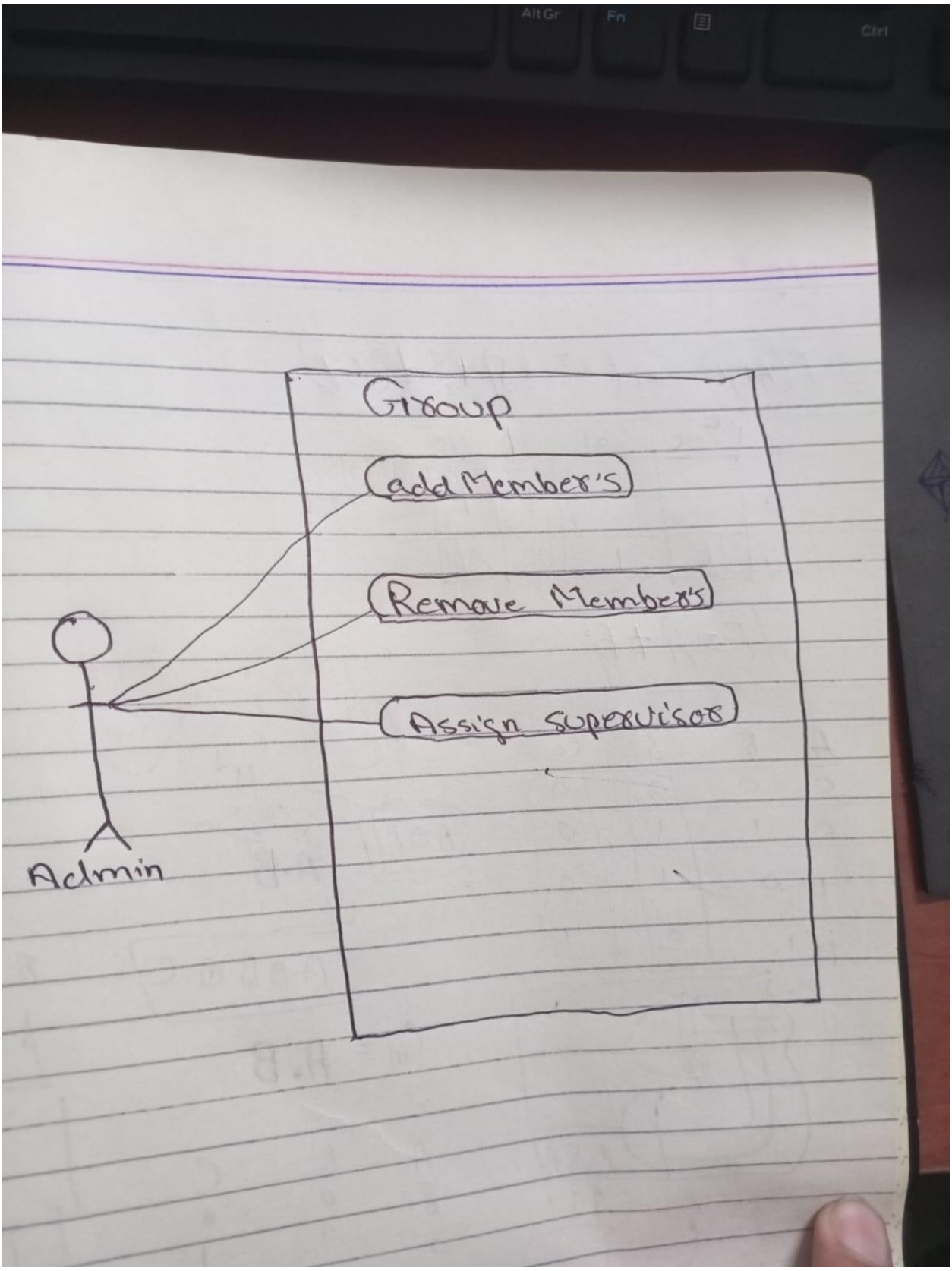
Extensions (Alternate Flows):

3a. If the advisor already has maximum assigned groups:

→ System blocks the assignment and shows a warning.

Special Requirements:

- System should prevent duplicate advisor assignments to the same group.
- Email notification to advisor and group members upon assignment.


Group
add Member's
Remove Members
Assign supervisor
Admin