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.

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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:**

1. 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:**

1. 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:**
1. 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:**
1. If a student is already assigned, system prevents duplication.
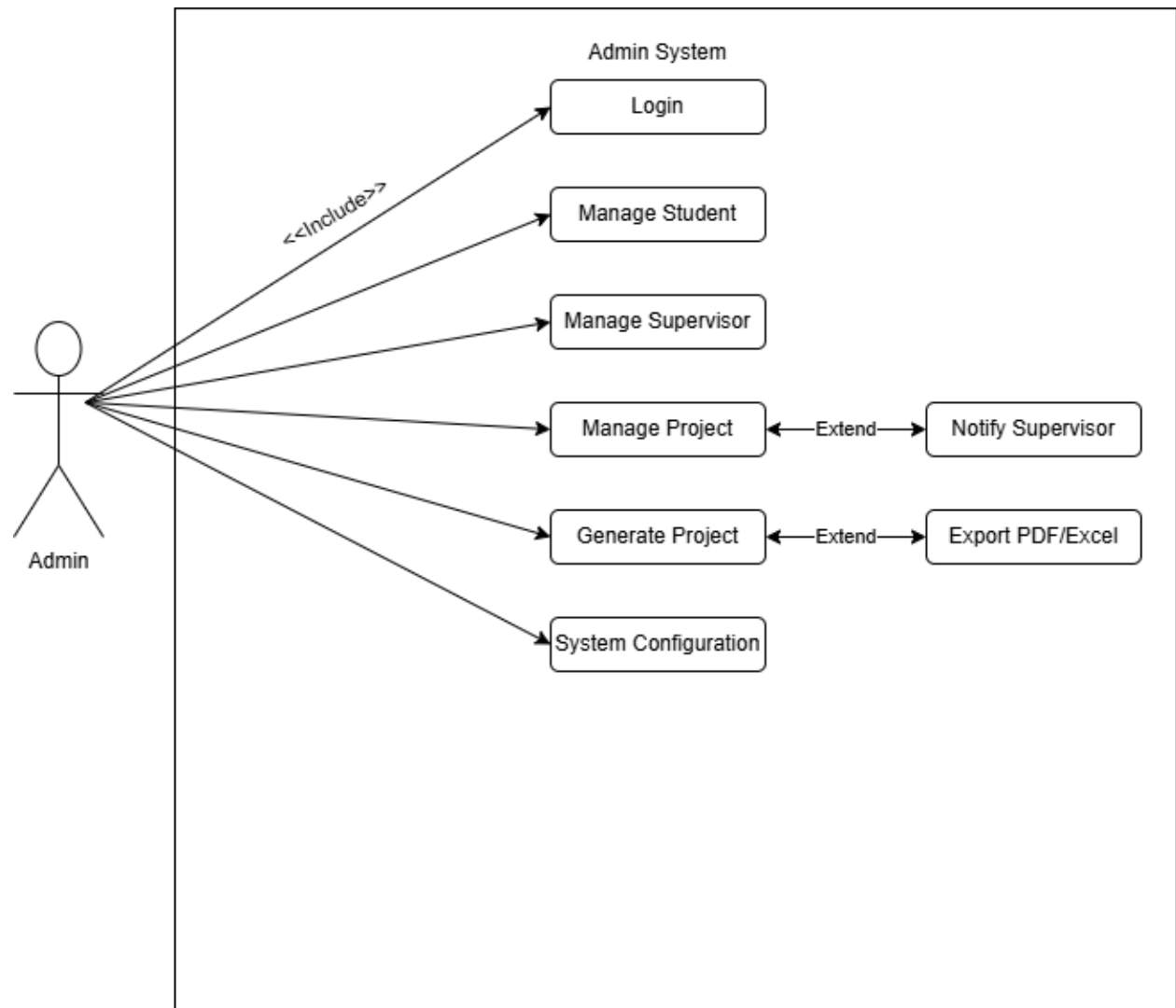- **Post conditions:** Project is added and visible in tracking.

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:**

1. 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:**

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

- **Postconditions:** System settings are updated.

Admin System

Login

Manage Student

Manage Supervisor

<<Include>>

Manage Project ←—Extend—→ Notify Supervisor

Generate Project ←—Extend—→ Export PDF/Excel

System Configuration

Admin

SSD for Admin: