



# AP Project Diagrams

## University ERP

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## 1 Use Case Overview

The ERP system supports three primary roles: Student, Instructor, and Admin. Tables 1–3 summarise the main use cases.

### 1.1 Student Use Cases

Use Case	Description
Login	Authenticate using username and password to access the student dashboard.
View Timetable	View registered course sections in a weekly timetable layout.
Browse Course Catalog	View the current semester course catalog, including instructor, timings, and seat availability.
Register for Section	Request registration in an available section (subject to capacity and deadlines).
Drop Section	Drop an enrolled section before the drop deadline, if allowed.
View Registrations	View the list of currently registered sections and their status.
View Grades	View component scores (Quiz, Midterm, Endterm) and final grades once published.
Download Transcript	Export final grades to a CSV file.
Logout	End the current session safely.

Table 1: Student Use Cases

### 1.2 Instructor Use Cases

Use Case	Description
Login	Authenticate as an instructor and access the instructor dashboard.
View Assigned Sections	See list of sections assigned for the current term.
View Gradebook	Open gradebook for a section and see enrolled students and their scores.
Enter / Edit Scores	Enter or update Quiz, Midterm, and Endterm scores (0–100) for each student.
Define Grading Scale	Input grade boundaries (e.g., 70+ A+, 60+ A, 50+ B, 40+ C, 30+ D).
Compute Final Grades	Trigger computation of final letter grades using the provided boundaries.
View Class Statistics	View average scores per component for a section.
Logout	End the current session safely.

Table 2: Instructor Use Cases

### 1.3 Admin Use Cases

Use Case	Description
Login	Authenticate as an admin and access the admin dashboard.
Manage Users	Create student, instructor or admin accounts.
Manage Courses	Create and edit course catalog entries.
Manage Sections	Create and edit sections (instructor, timings, capacity, term).
View System Settings	View global settings such as current semester and course registration and drop deadlines.
Toggle Maintenance Mode	Enable or disable read-only maintenance mode for safety.
Logout	End the current session safely.

Table 3: Admin Use Cases

## 2 Domain Model (“Things” Sketch)

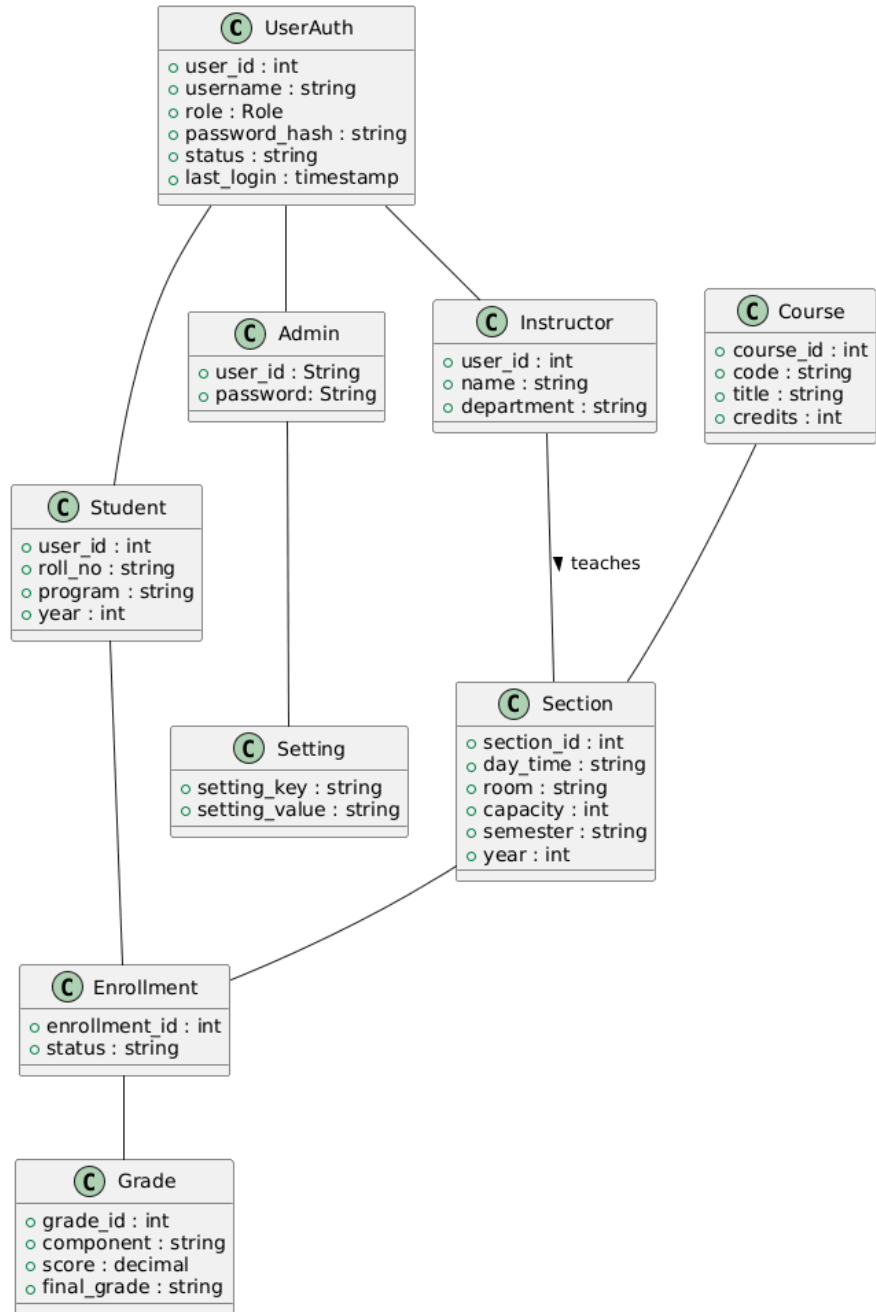


Figure 1: Domain model showing the main “things” and their relations.

### 3 Flow Diagrams

#### 3.1 Student Enrollment Flow

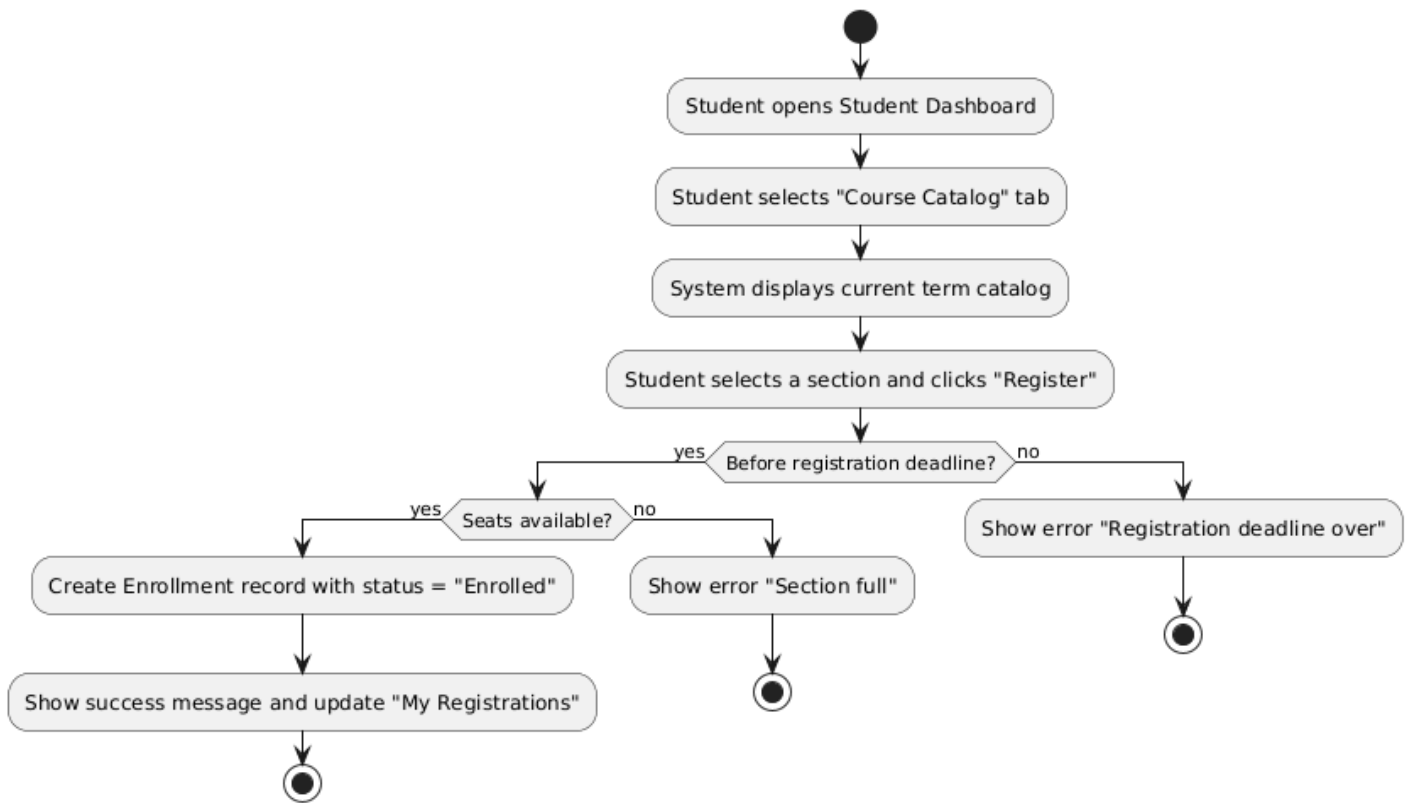


Figure 2: Activity flow for student course enrollment.

#### 3.2 Grade Entry and Final Grade Computation Flow

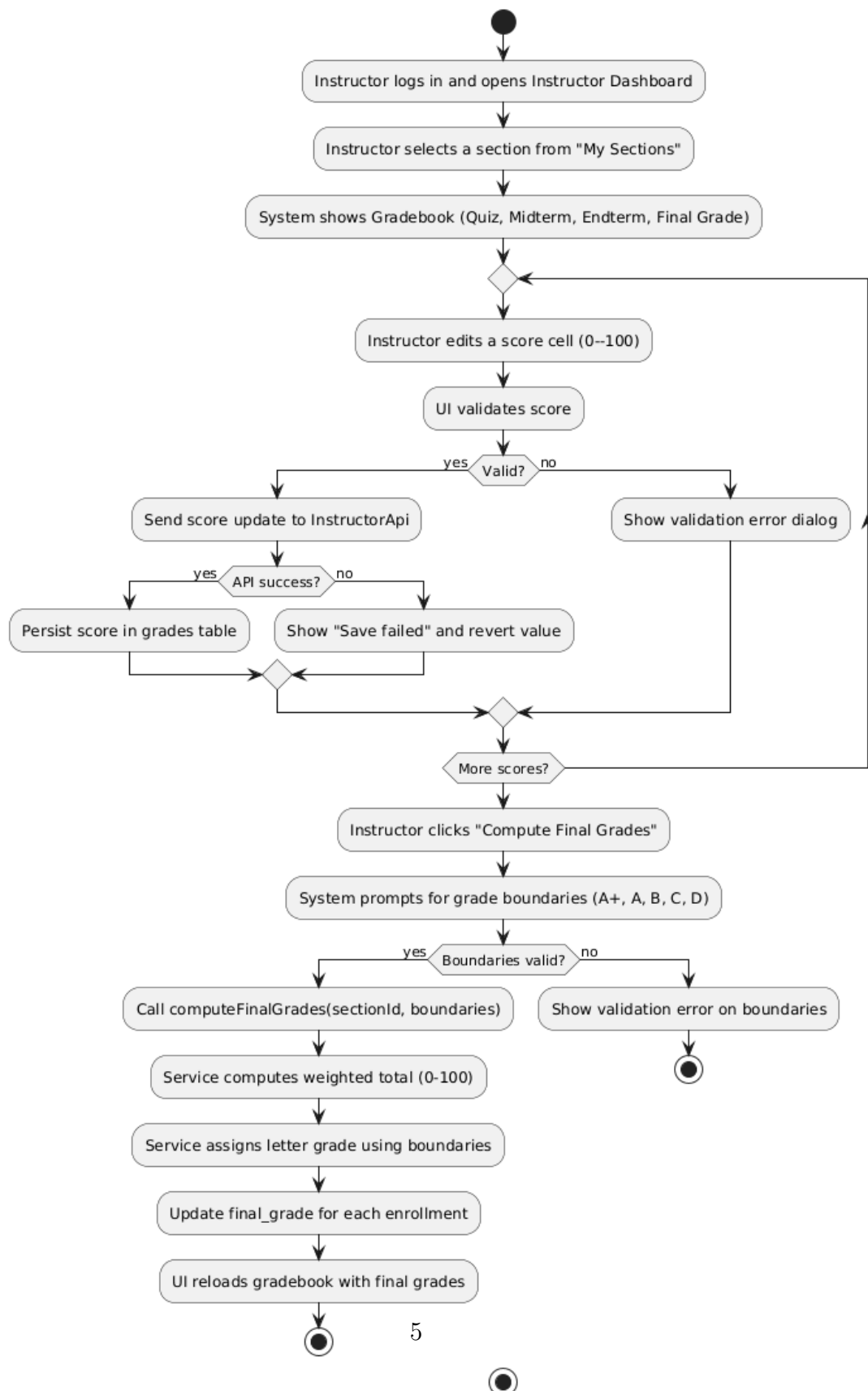


Figure 3: Activity flow for instructor grade entry and final grade.

### 3.3 Maintenance Mode Toggle Flow

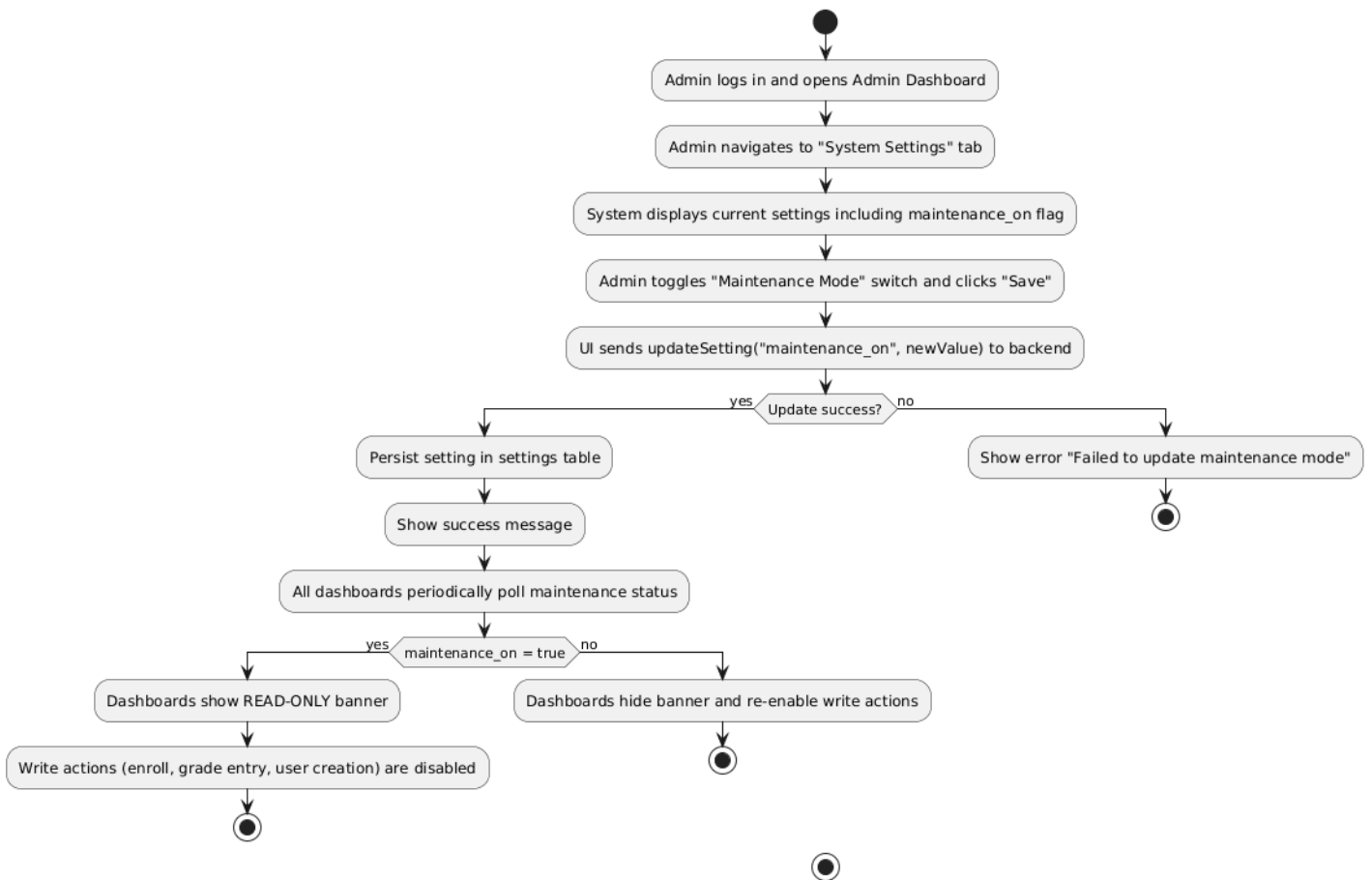


Figure 4: Activity flow for toggling system maintenance mode.