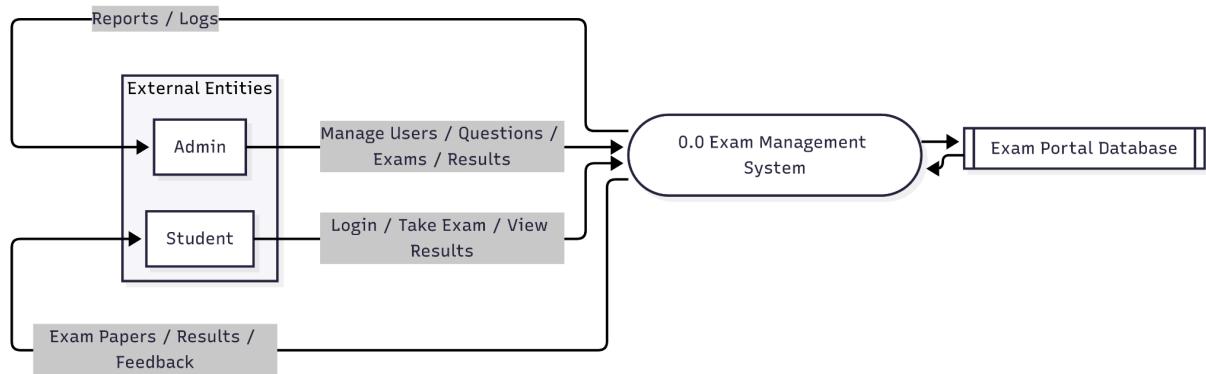


Mock Test System

Level-0

The Level-0 diagram of “Mock Test System”) with its interactions with external entities. The purpose is to show **how information flows between the system and external actors**.



External Entities

- **Student**
 - Role: End-user of the system.
 - Responsibilities: Logs into the system, takes scheduled exams, submits responses, and views results.
 - Interaction: Sends login requests, exam responses, and receives exam papers and results.
- **Admin**
 - Role: System administrator or examiner.
 - Responsibilities: Manages user accounts, creates exams, manages question banks, monitors audit logs, and reviews results.
 - Interaction: Sends login requests, exam setup data, and receives system reports and feedback.

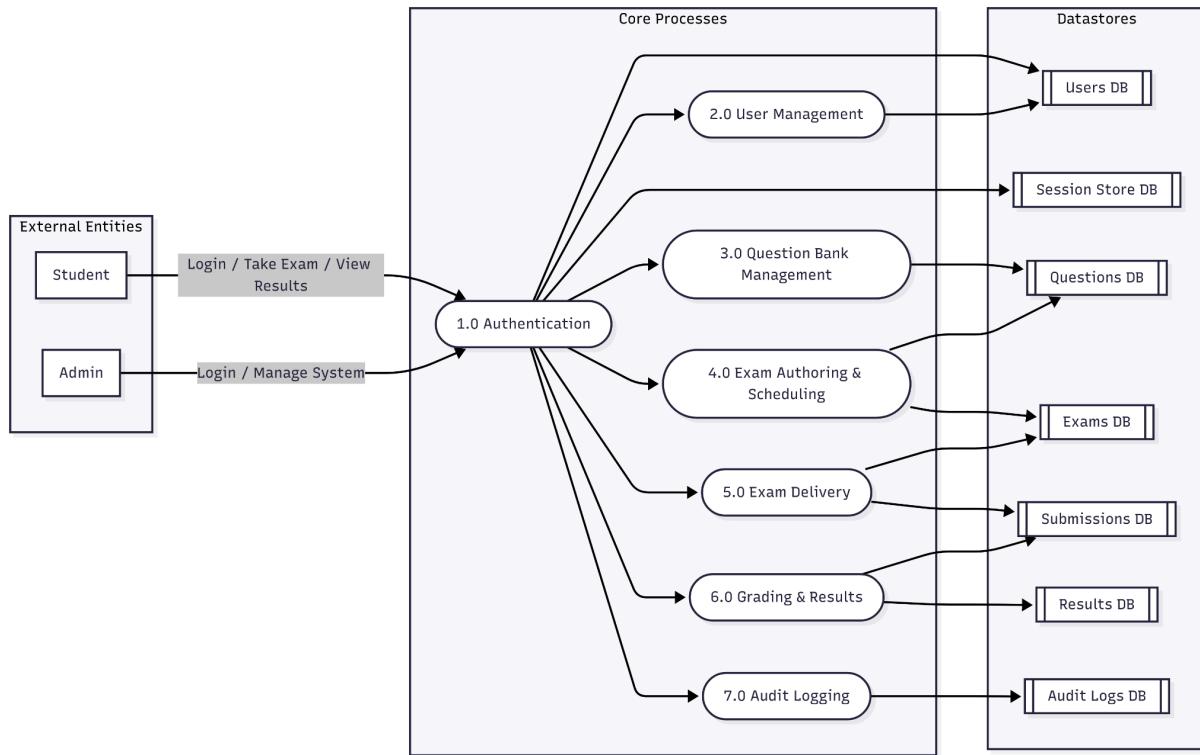
Data Stores

Store Exam Management System data in a database

Data Flows

1. **Student → System:** Login requests, exam responses.
2. **System → Student:** Exam papers, results, feedback.
3. **Admin → System:** Login requests, exam creation, user management, question bank updates.
4. **System → Admin:** System reports, audit logs, result review.
5. **System ↔ Data Stores:** Reads/writes to Users, Questions, Exams, Submissions, Results, Sessions, and Audit Logs as needed.

Level-1



1.0 Authentication

Validates user credentials and assigns appropriate access based on roles (Student/Admin). All requests to core processes pass through this module for security.

2.0 User Management

Manages user accounts, including creation, updating, role assignment, and profile maintenance. Accessible only to Admins.

3.0 Question Bank Management

Handles creation, editing, deletion, and categorization of questions for exams.

4.0 Exam Authoring & Scheduling

Allows Admins to create exams by selecting questions, defining structure, assigning schedules, and setting rules.

5.0 Exam Delivery

Provides students with active exams and captures their responses securely.

6.0 Grading & Results

Automatically grades questions, stores results, and generates performance reports.

7.0 Audit Logging

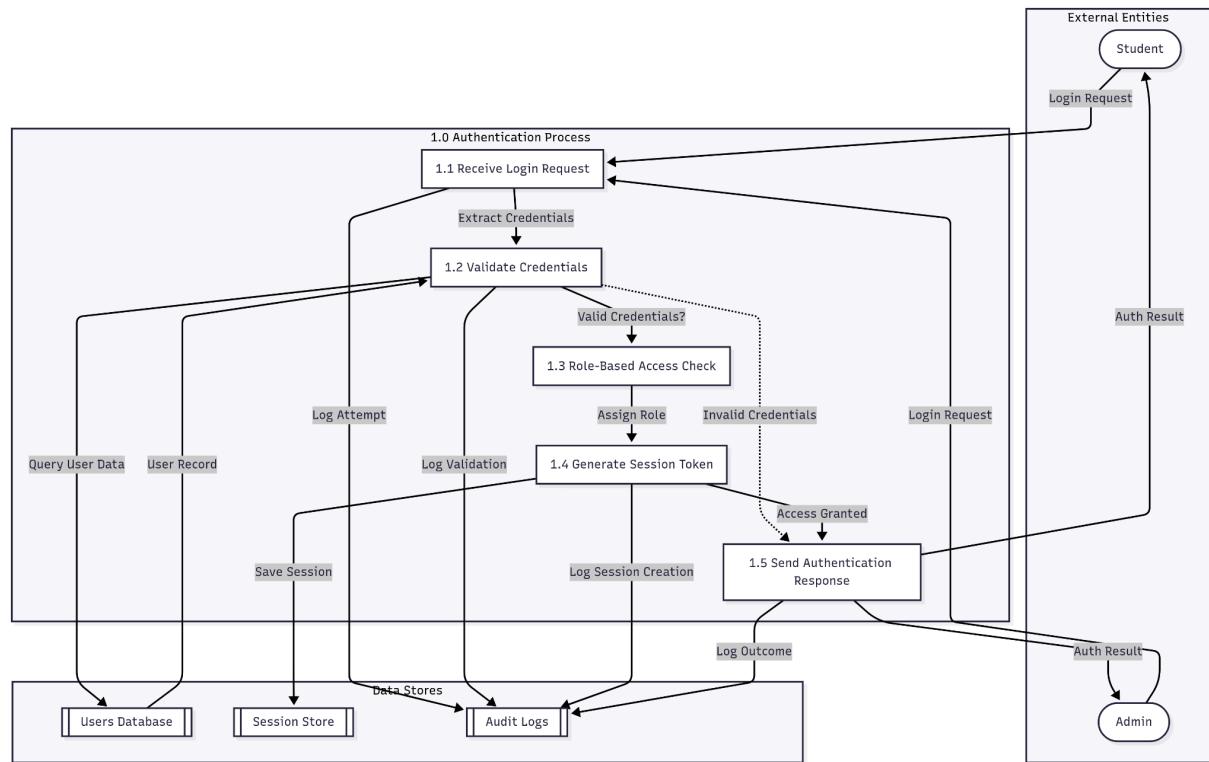
Tracks and logs important system events for security and accountability.

Data Stores

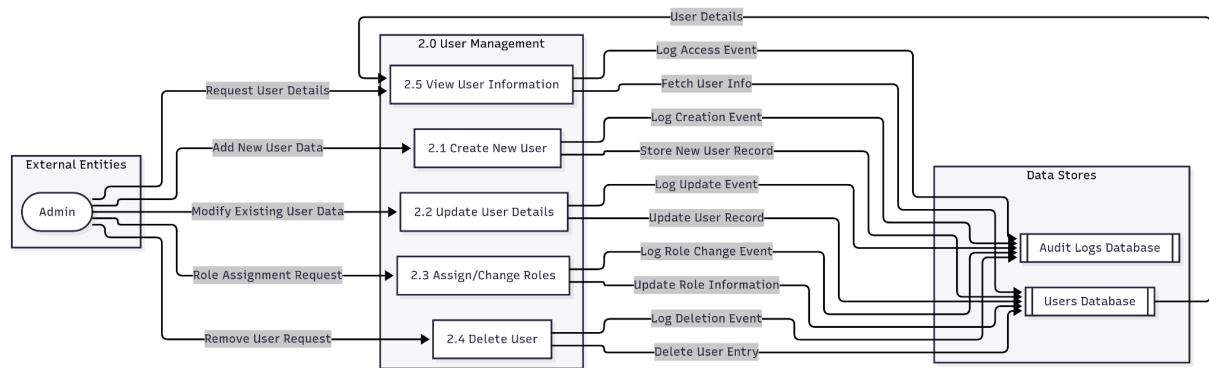
1. **Users DB** — Stores user credentials, roles, and profile information.
2. **Session DB** — Maintains active user sessions and authentication tokens to ensure secure access to the system.
3. **Questions DB** — Repository of all questions for exams.
4. **Exams DB** — Stores exam definitions, schedules, and settings.
5. **Submissions DB** — Stores all student exam submissions.
6. **Results DB** — Stores computed results and grading details.
7. **Audit Logs DB** — Stores all system event logs.

Level-2

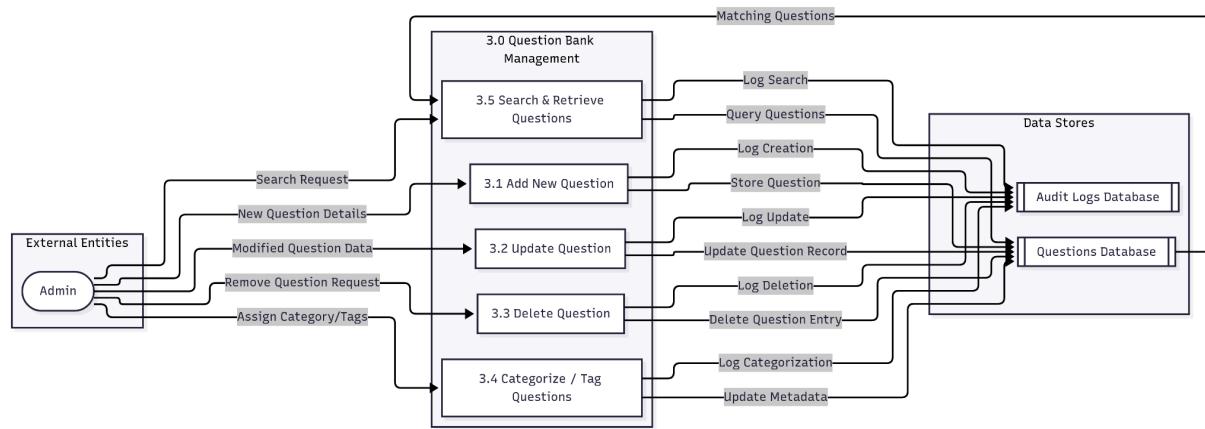
1.0 Authentication Process



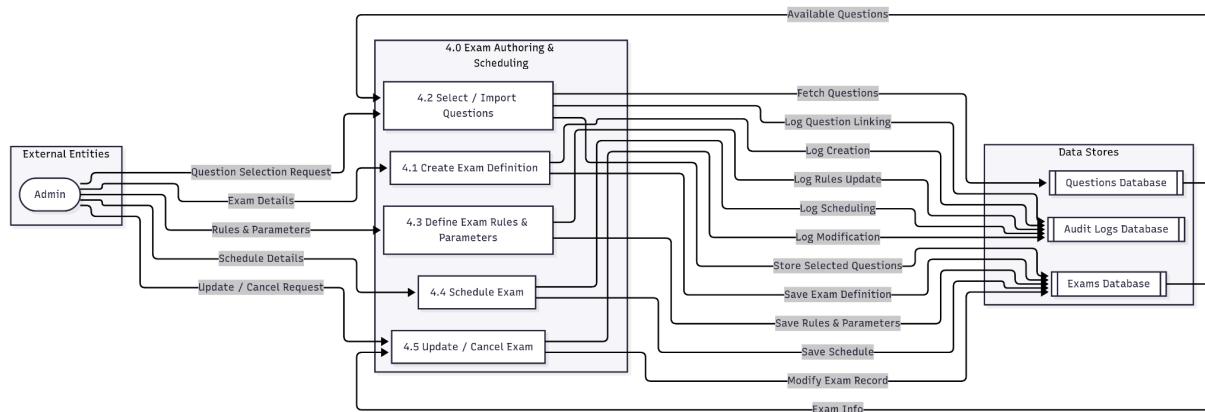
2.0 User Management



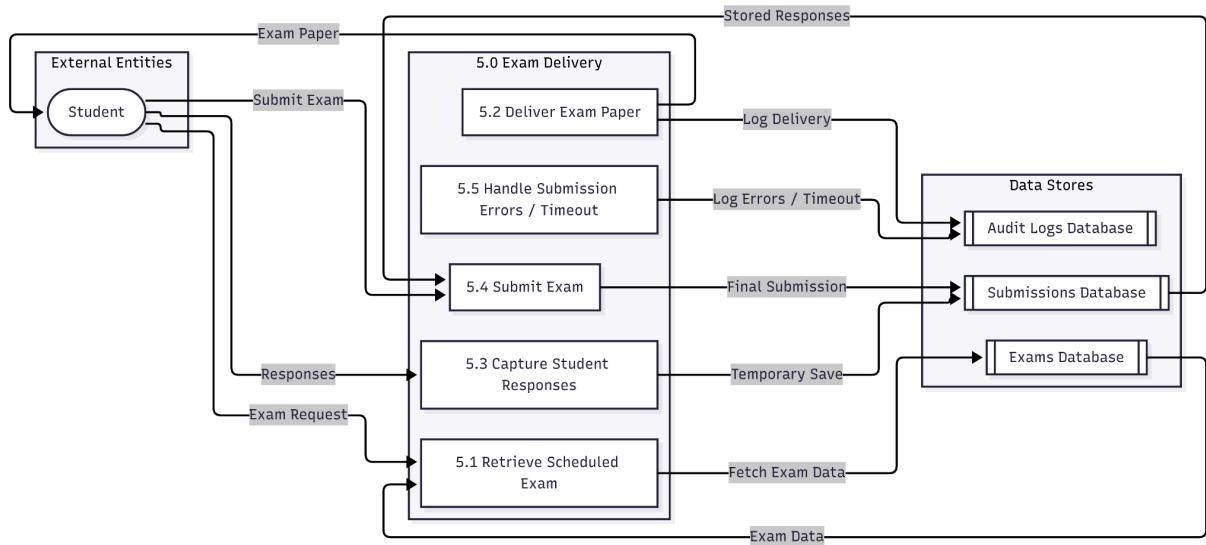
3.0 Question Management



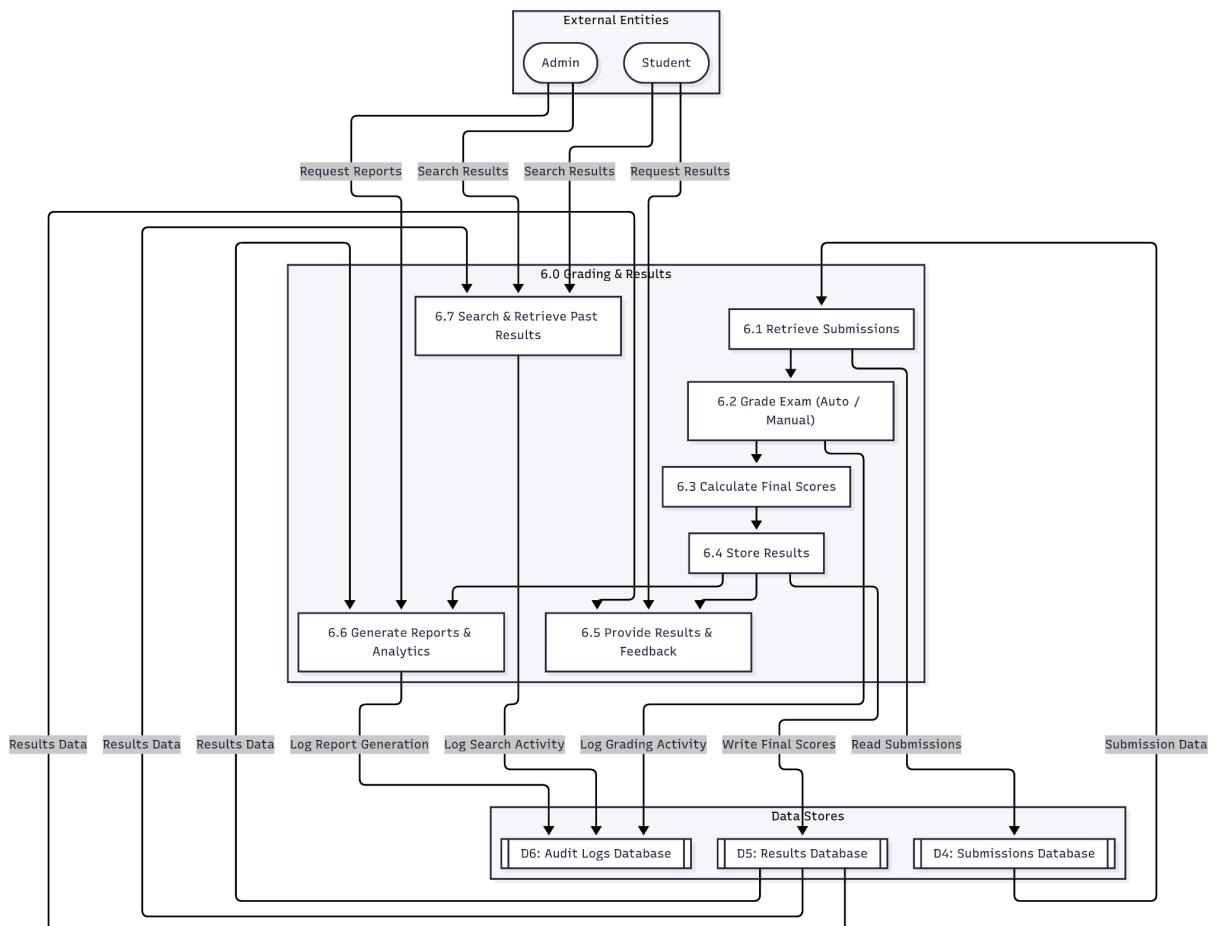
4.0 Exam Authoring & Scheduling



5.0 Exam Delivery



6.0 Grading & Results



7.0 Audit Logging

