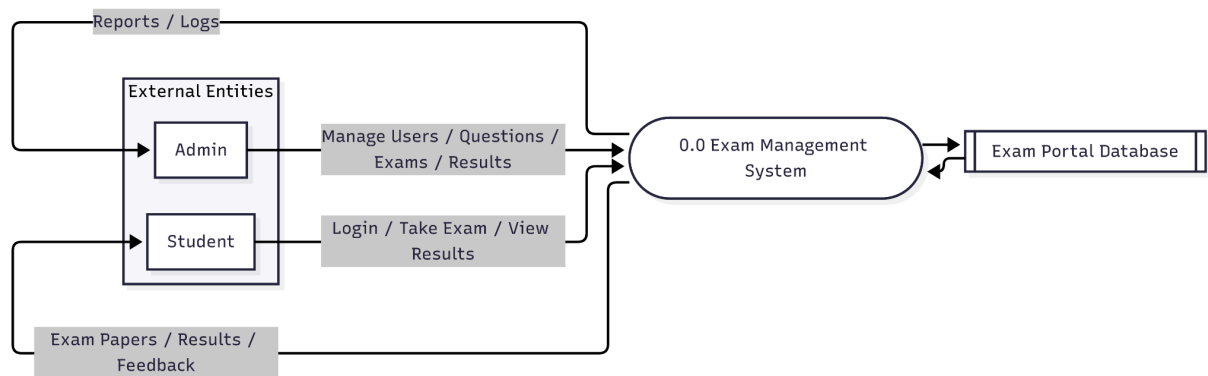


# Mock Test System

## 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.

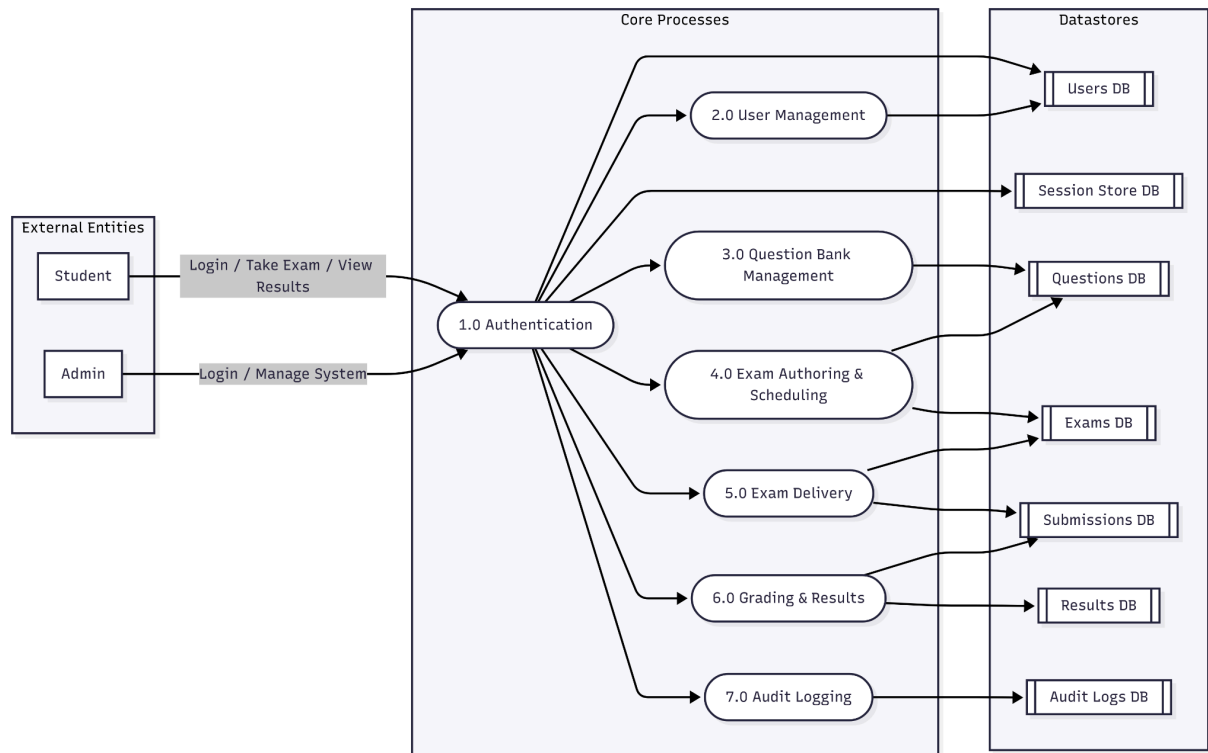
## Data Stores

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

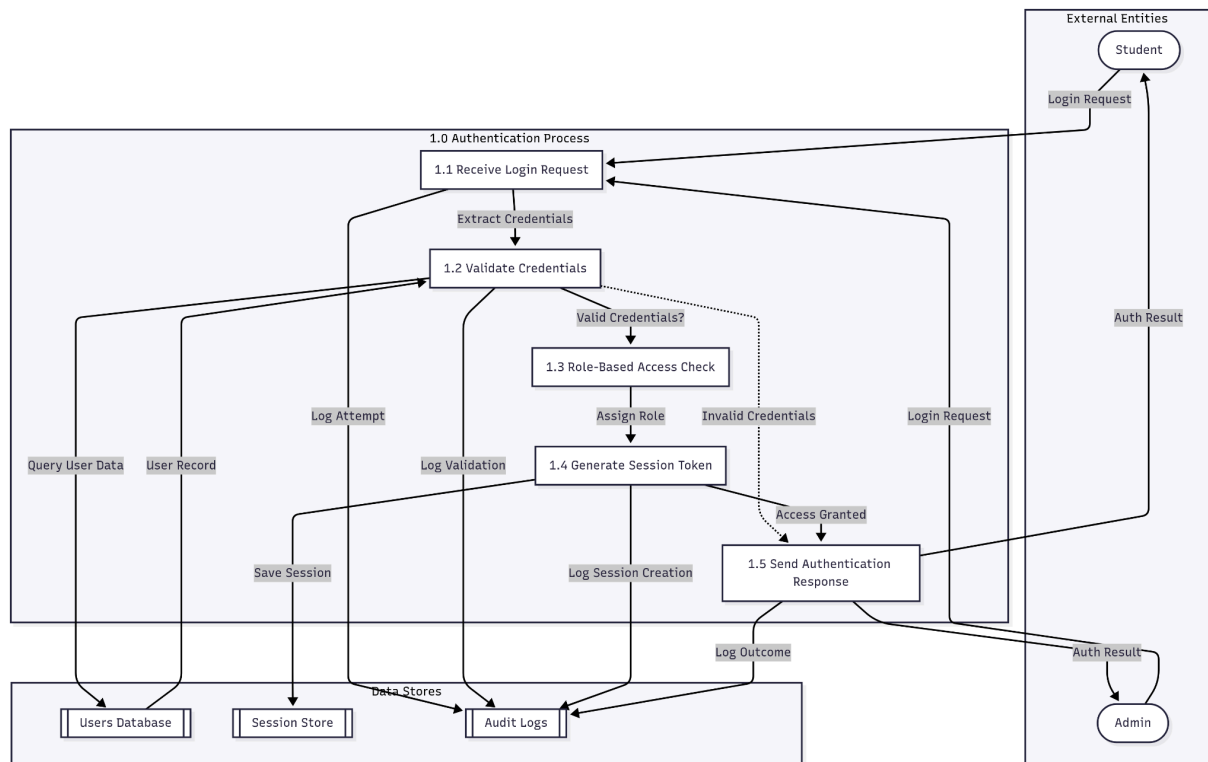
Tracks and logs important system events for security and accountability.

## Data Stores

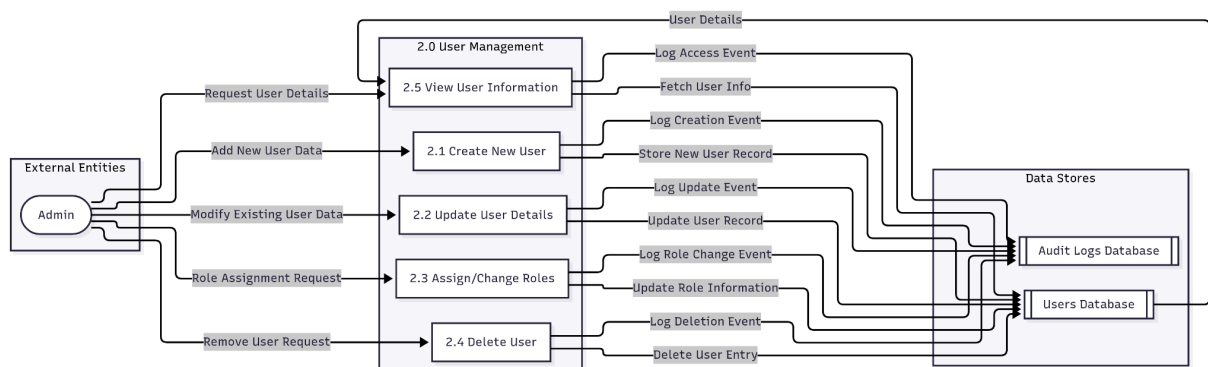
1. **Users DB** — Stores user credentials, roles, and profile information.
2. **Session DB** — Maintains active user sessions and authentication tokens to ensure secure access to the system.
3. **Questions DB** — Repository of all questions for exams.
4. **Exams DB** — Stores exam definitions, schedules, 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

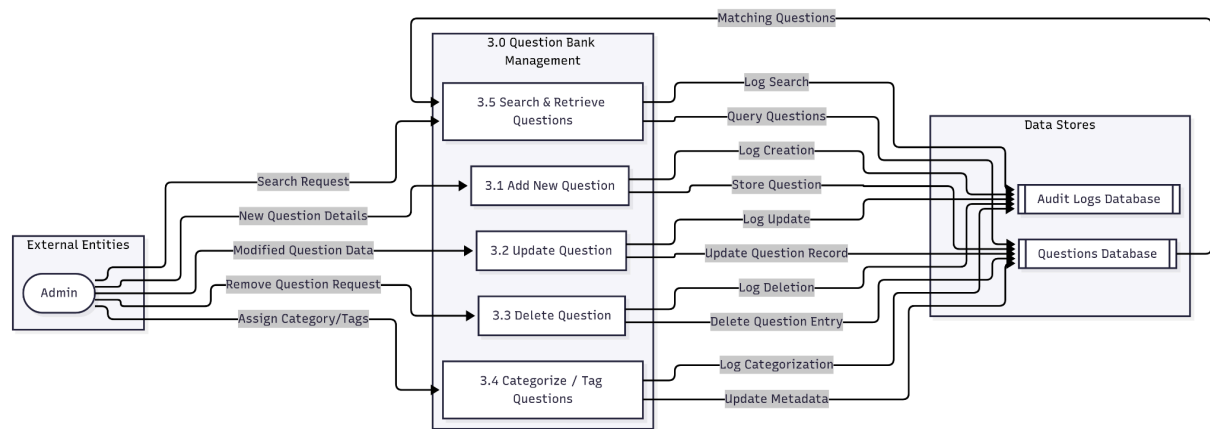
## 1.0 Authentication Process



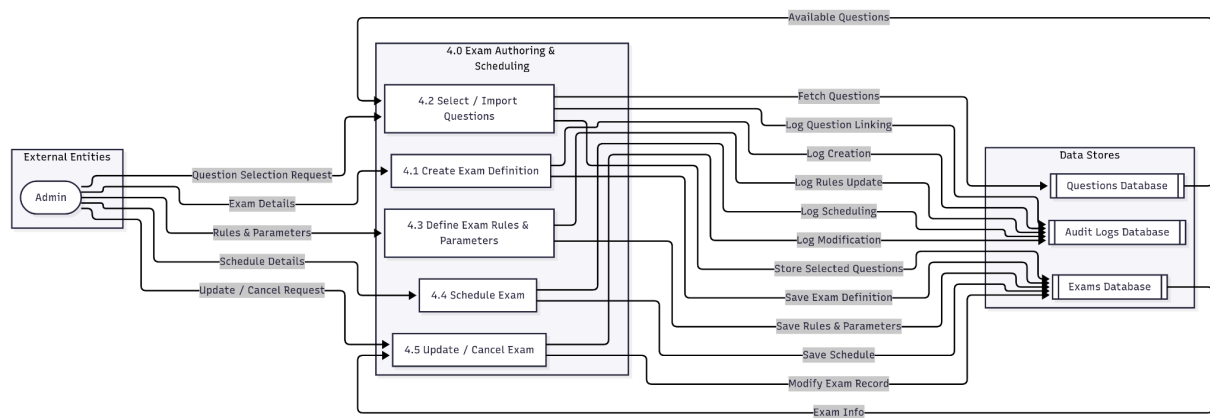
## 2.0 User Management



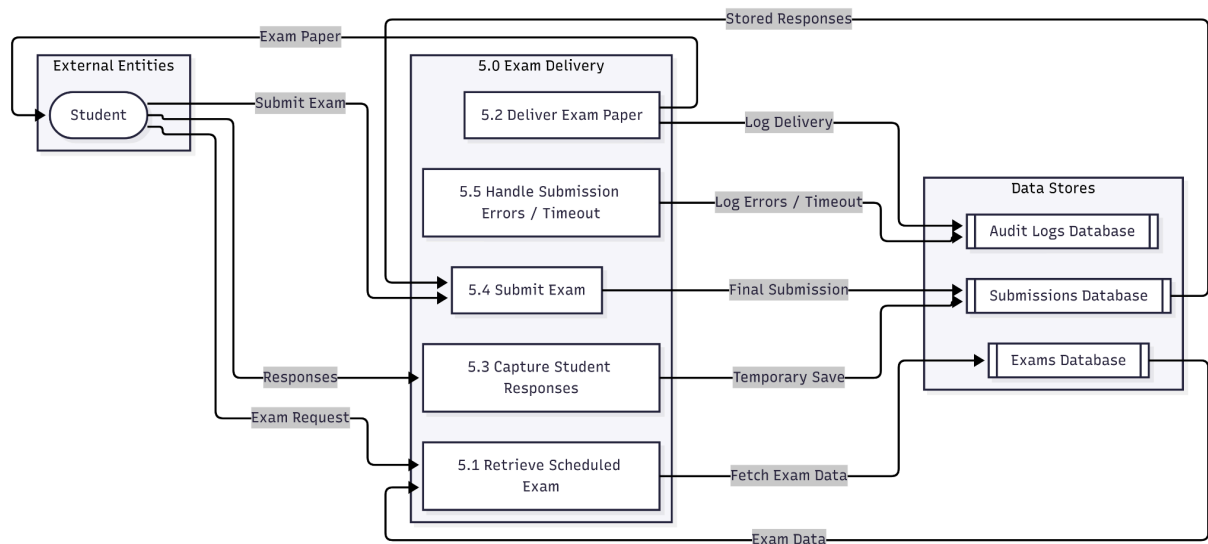
## 3.0 Question Management



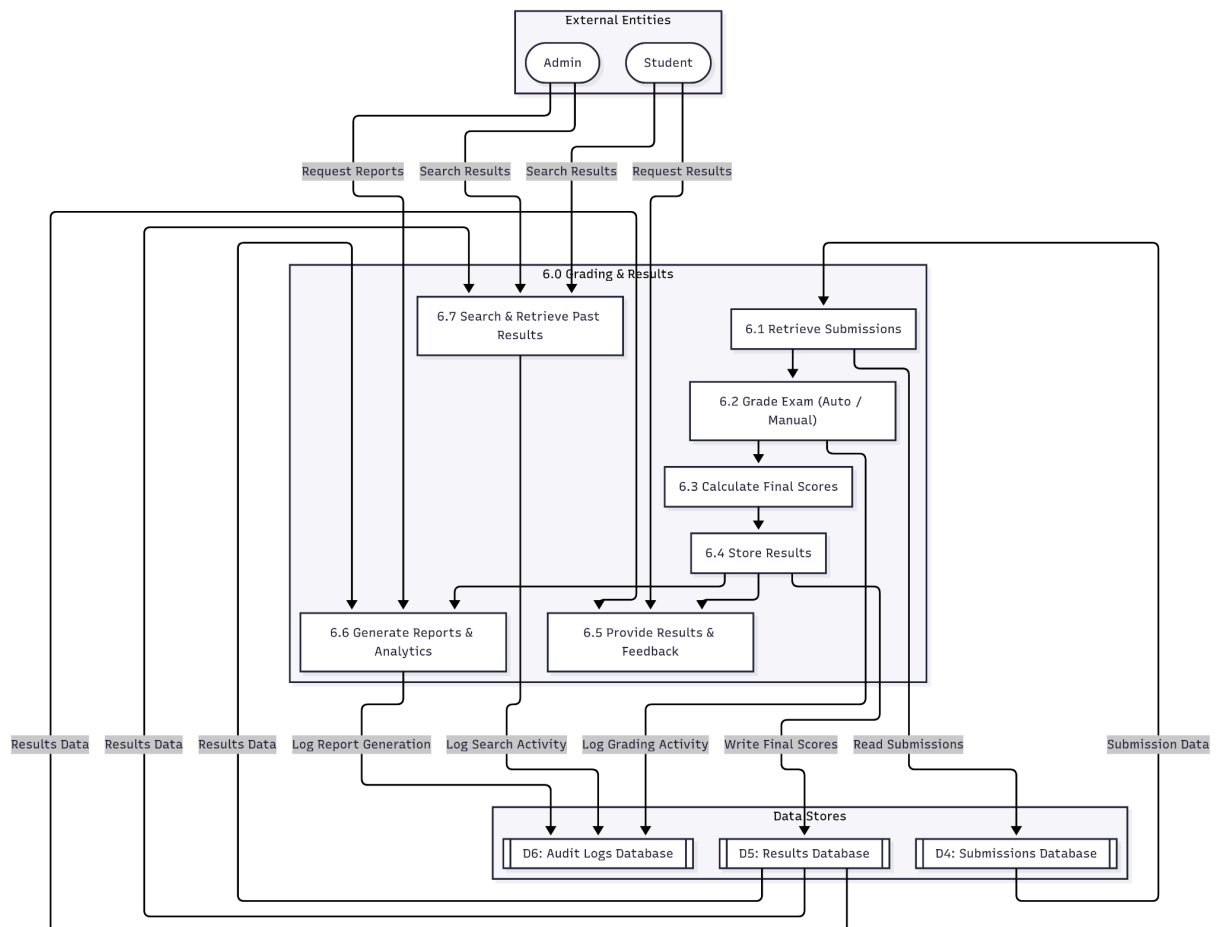
## 4.0 Exam Authoring & Scheduling



## 5.0 Exam Delivery



## 6.0 Grading & Results



## 7.0 Audit Logging

