Audit Management System

SIGTERM

Harman Singh
Nitin
Pranav Aggarwal
Saket Ahlawat
Nitin Singh

WebD   **WebD**   **WebD**
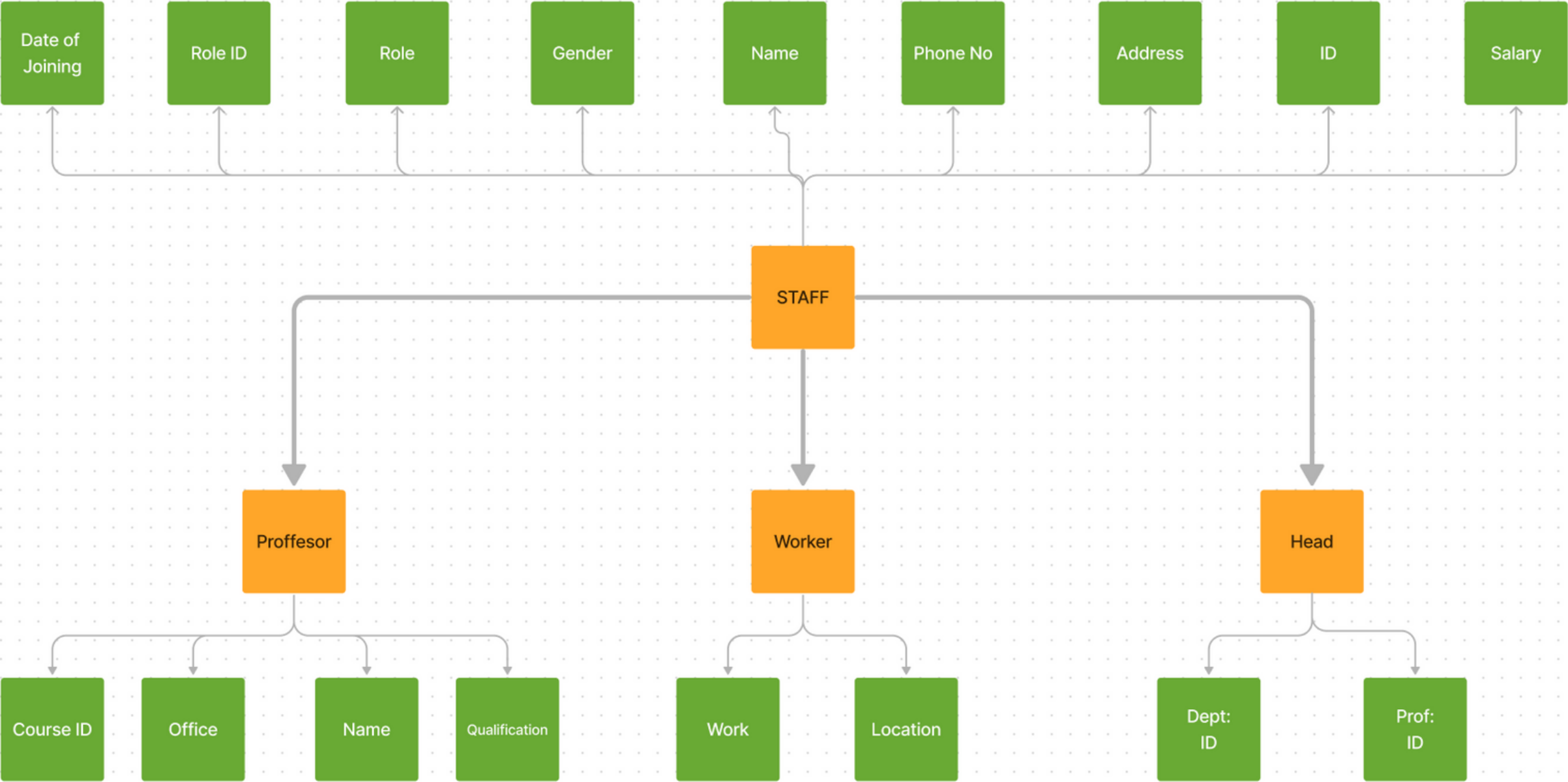
Product Management   **AI/ML**

PROBLEM

Inconvenience in Troubleshooting

Compliance and Accountability Concerns

Data Inconsistencies and Errors

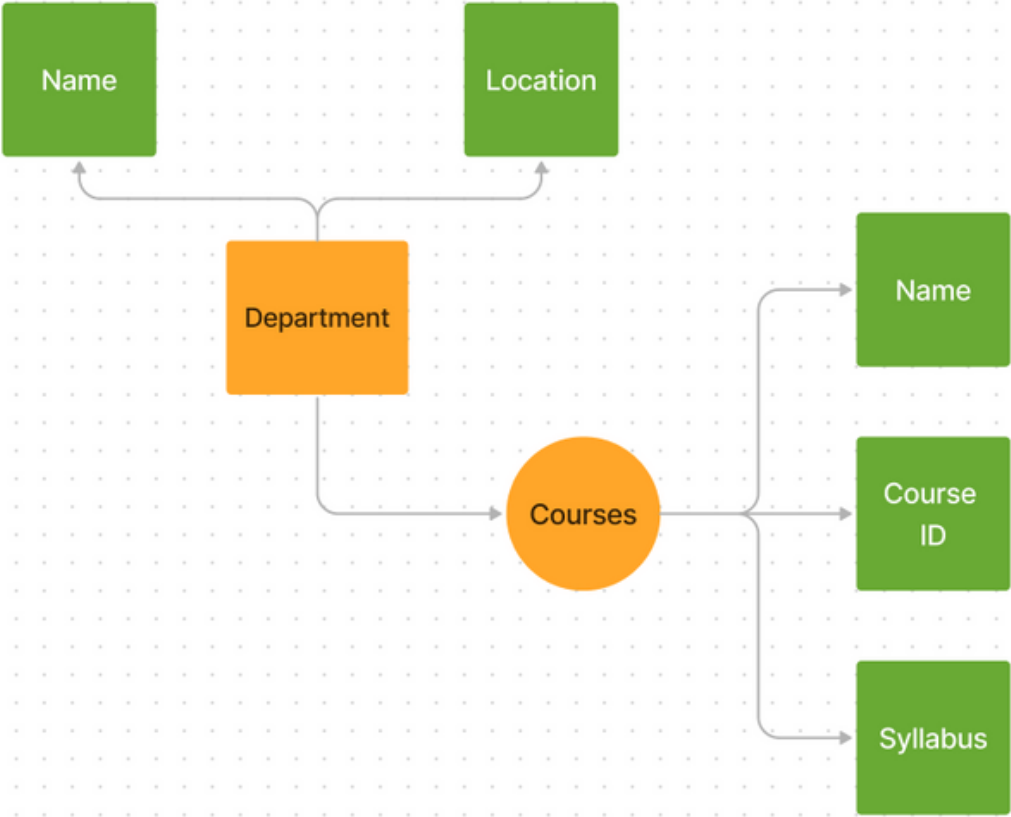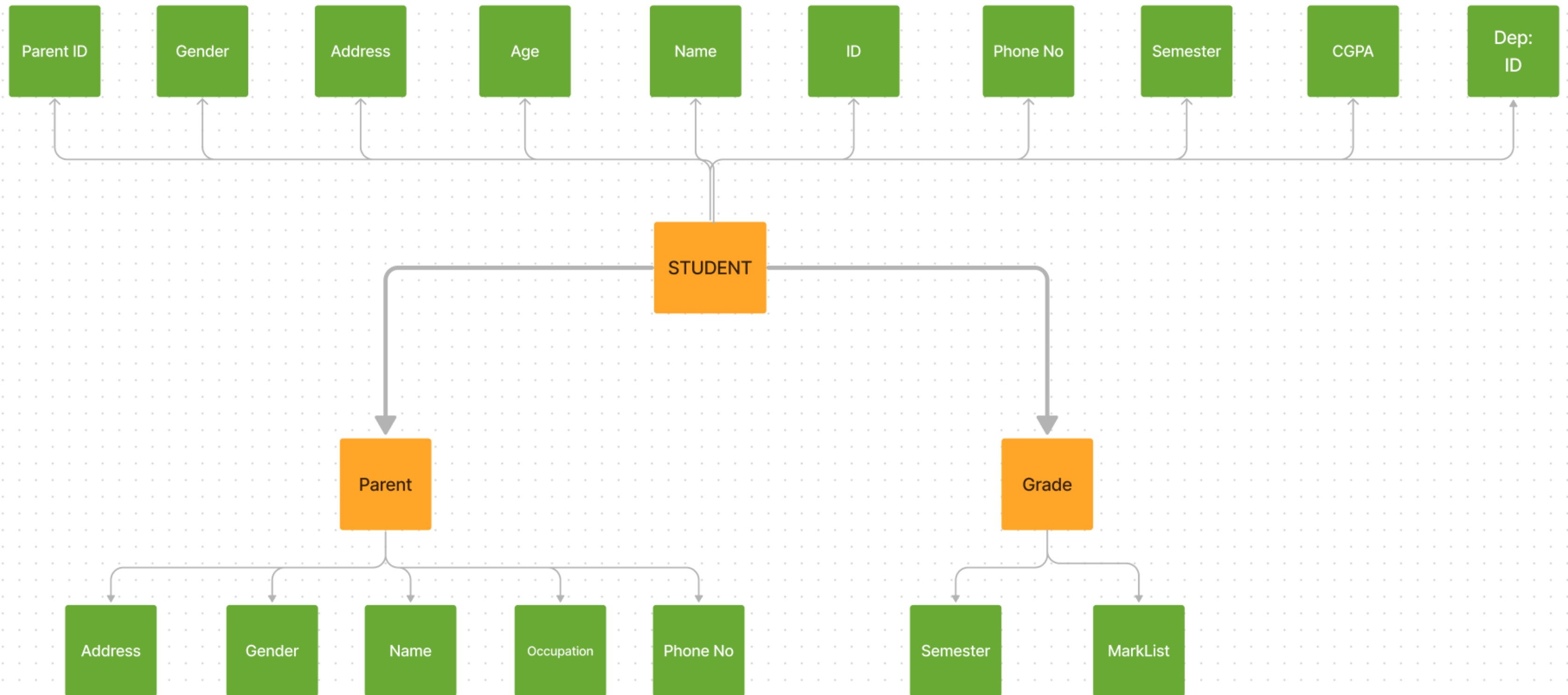Data Loss and Recovery Challenges

DATABASE SCHEMA AND RELATIONSHIP

STAFF BLOCK

DEPARTMENT BLOCK

STUDENT BLOCK
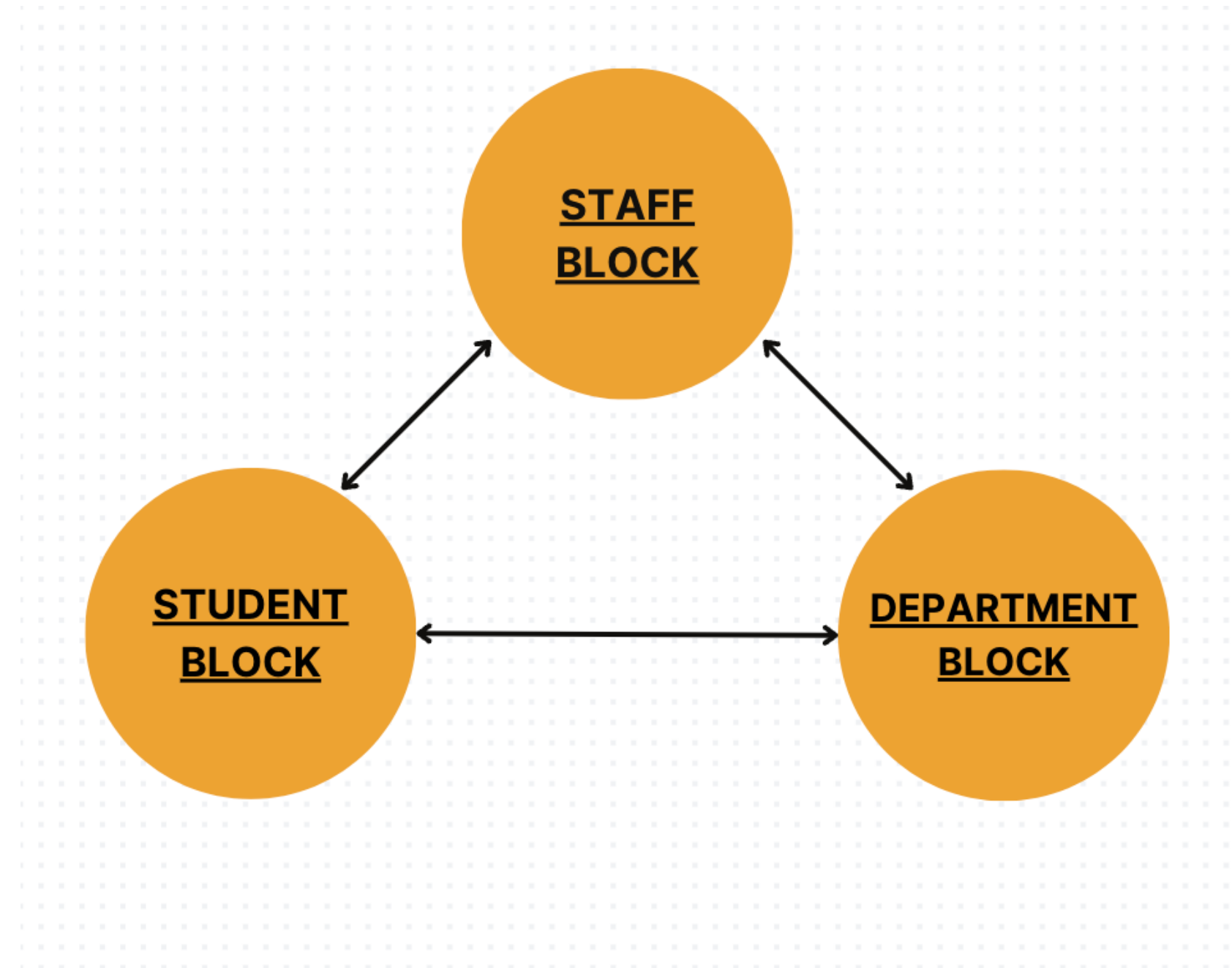
Interconnection of different blocks

SOLUTION

S No:	Key Components
1)	Change History Viewer.
2)	Management Dashboard
3)	CRUD Operations
4)	Activity Logging
5)	Inter-relational queries
6)	Reverting Back

Application Features

1) History Viewer:

- The Change History Viewer is the data's time machine, offering a clear record of all changes made to employee or student data, ensuring transparency, accountability, and enhanced data security. It's the ultimate tool for maintaining accurate and reliable information.

2) Management Dashboard:

- Our user-friendly data maintenance dashboard provides a seamless experience for tracking changes. It displays both the original and updated values, offering a comprehensive audit history at fingertips, making data management efficient.

PEC

- DashBoard
- Student Management
- Staff Management
- Department Management

Audit Logs

1	Student Nitn Singh has been Created	nitin@gmail.com	2023-10-15T14:55:55.799Z

Old State :

New State :

Audit ID : 1

Audit Message : Student Nitn Singh has been Created

Created By : nitin@gmail.com

Created At : 2023-10-15T14:55:55.799Z

name	Nitn Singh
id	3
phoneNo	9053825452
address	Rajasthan
gender	Male
age	21
sem	1

Revert

3) CRUD Operations:

- Our application offers a robust platform to efficiently manage employee or student data, enabling Create, Read, Update, and Delete (CRUD) operations with ease.

4) Activity Logging:

- Activity Logging is like cloning a replica of a higher level environment like production environment using audits for troubleshooting the problems which occurs during the execution of audit in the production environment.

5) Inter-relational queries:

- Our system enables user to perform advanced queries based on various interconnected data fields like Employee ID, Phone Number, or Department. Plus, it also includes an audit trail for the queried data, ensuring you have a complete history for all your inquiries.

6) Reverting Back:

- Upon inquiring about a previous audit, our app uses a recursive way to recreate an entity by replaying all audit records up to a specified point, effectively restoring a record to a previous state.

Potential Addressable Market For the Product

The product has great potential to cater the growing demands of database management in some of the following mentioned sectors.

- Educational Institutions
- Healthcare Providers
- Financial Institutions
- Audit and Consulting Firms