

VASANTDADA PATIL PRATISHTHAN'S COLLEGE OF ENGINEERING & VISUAL ARTS





Problem Statement: Exam Section

PS NO: 4

College Name: Ramrao Adik Institute of

Technology

Team Name: EdVantage

Team Members:

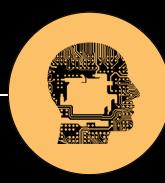
Anurag Shetye, Pranav Patil,

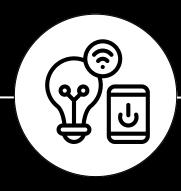
Vedant Pawar, Ayushi Thokal

EduSync - Automating Exams, Empowering Education

"EduSync" is a web-based system that automates exams, reducing workload, enhancing transparency, and ensuring accuracy to streamline examination process in universities









DEFINE SYSTEM REQUIREMENTS & DATABASE DESIGN.

DEVELOP
AI MODELS FOR
SEAT &
SUPERVISOR
ALLOCATION.

INTEGRATE
AUTOMATION FOR
MARKS
PROCESSING &
RESULT
GENERATION.

TESTING,
SECURITY
VALIDATION,
AND
DEPLOYMENT.



ARCHITECTURAL FLOW Form filling, Hall Ticket + Roll No. + Time Table Generation **DIAGRAM** Cloud Hosting **START STOP** CI/CD Pipeline 1 **PRE EXAM SECURITY &** Students, Faculty, Admins **DEPLOYMENT ACCESS AND HOSTING CONTROL USER Class Room Allocation INTERACTION** (Notification), Exam Duty Allocation to teachers. Secure Database Role Based Access (RBAC) 2 **DURING EXAM DATABASE RESULT ACCESS MANAGEMENT REQUEST** & ANALYTICS (8) **PROCESSING Answer Sheet Allocation (Subject** wise), Marks Verification, Result Generation **POST EXAM** 3 **AI AUTOMATION COMMUNICATION &** Notifications (P)



NOTIFICATIONS

Web Portal, APIs

AI-BASED SEATING ALLOCATION

Automated Allocation: All ensures accurate, hassle-free seating plans.

Dynamic Adjustments: Adjusts instantly for absentees and room changes.

01 04 USE CASES 02 03



AUTOMATED MARKS PROCESSING

Error-Free Calculation: Al ensures accurate grading and calculations.

Secure Data Entry: Secure entry ensures accurate faculty records.

SMART SUPERVISOR ASSIGNMENT

Balanced Workload: Fairly distributes assignments among supervisors.

Transparent Communication:

Real-time alerts keep supervisors updated.



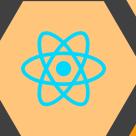
RESULTS MANAGEMENT & ANALYTICS

Secure Result Publication: Access control keeps results secure.

Performance Insights: Creates scorecards and analytics for tracking.



TECHNOLOGY STACK



REACT JS (FRONTEND)

A JavaScript library for building dynamic & interactive user interfaces.



TAILWIND CSS (FE)

A CSS framework for creating responsive & customizable designs.



NODE JS (EXPRESS) (BE)

A backend framework for handling server-side logic and API requests.



PYTHON (AI/ML)

Used for implementing Al-driven automation, for seating allocation and marks processing.



A database system for storing and managing exam-related data.



HTML 5 (FE)





FIREBASE

A cloud-based platform for data synchronization and authentication.



DOCKER (CLOUD AWS/GCP)

A containerization tool for deploying cloud-based applications.





BUSINESS MODEL CANVAS



Market Research / GapMost universities fa

- Most universities face errors due to manual exam management.
- · Lack of automation leads to high administrative workload.



Value

02.

04.

- Efficient exam management
- Streamlined processes & automation



Channels Direct

- Direct sales to institutions
- Online support for clients



Customers

- Universities, educational boards & examination authorities
- An average of 12,000 students enrolled in big colleges affiliated to MU.



RevenueSubs

- Subscription-based model
- Additional support & customization fees

