

INSTITUTION'S INNOVATION COUNCIL
MOE'S INNOVATION CELL

Institute Name:

Malla Reddy Institute of Technology & Science

Title of the Innovation/Prototype:

INTEGRATED STUDENT DATA MANAGEMENT SYSTEM FOR UNIVERSITIES

Team Lead Name:

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Team Lead Gender:

Male

FY of Development:

2024-25

Developed as part of:

Academic Requirement/Study Project

Innovation Type:

Business/Management Innovation

TRL LEVEL:

4

MRL Level:

MRL 1: Basic manufacturing implications identified

IRL Level:

IRL 1: Basic Research (Need Identification & Peer Review Publications) & Completed First-Pass Business Model Canvas (BMC)

Theme:

Education,

Define the problem and its relevance to today's market / society / industry need:

The **Integrated Student Data Management System addresses the challenge of managing vast amounts of student information efficiently in universities. With increasing student populations and diverse academic processes, universities struggle with disjointed, manual systems that lead to errors, inefficiencies, and delays. This system streamlines data management by centralizing academic records, schedules, financial data, and more into one platform, improving accessibility, accuracy, and decision-making. In today's fast-paced education landscape, where digital transformation is crucial, this system meets the industry's need for enhanced operational efficiency, student satisfaction, and data-driven insights.**

Describe the Solution / Proposed / Developed:

The **Integrated Student Data Management System centralizes all student-related information into a unified platform. It streamlines processes such as admissions, academic records, course registration, grades, and financials. The system features real-time data updates, secure access for both students and administrators, and automated reporting tools. By integrating with existing university systems, it ensures seamless data flow and reduces errors. The solution enhances operational efficiency, improves decision-making with accurate data, and provides students with easy access to their academic progress. This centralized system fosters a more collaborative, transparent, and efficient educational environment.**

Explain the uniqueness and distinctive features of the (product / process / service) solution:

The ****Integrated Student Data Management System**** stands out through its holistic approach to managing all aspects of student data within a single platform. Its distinctive features include real-time data synchronization across departments, role-based access for students and faculty, automated workflows for admissions, grading, and financials, and customizable reporting tools. The system's intuitive user interface and seamless integration with existing university infrastructure ensure minimal disruption. Additionally, its strong security protocols protect sensitive student information, while its scalability allows for easy adaptation to growing student populations, making it both efficient and future-proof for universities.

How your proposed / developed (product / process / service) solution is different from similiar kind of product by the competitors if any:

Our ****Integrated Student Data Management System**** distinguishes itself by offering a fully customizable, modular design that can adapt to the specific needs of different universities. Unlike many competitors, our system provides seamless integration with various existing institutional tools (like learning management and finance systems), ensuring a smoother transition and better data consistency. It also offers advanced data analytics for predictive insights, automated notifications for students and staff, and superior user experience with a mobile-friendly interface. Furthermore, robust security features ensure compliance with data protection regulations, setting it apart from other generic solutions in the market.

Is there any IP or Patentable Component associated with the Solution?:

No

Has the Solution Received any Innovation Grant/Seefund Support?:

No

Are there any Recognitions (National/International) Obtained by the Solution?:

No

***Is the Solution Commercialized either through Technology Transfer or Enterprise Development/Startup?:**

No

Had the Solution Received any Pre-Incubation/Incubation Support?:

No

Video URL:

<https://drive.google.com/file/d/1RkL58bURBL9p2aop-Pc7K5mwx3820USY/view?usp=sharing>

Innovation Photograph:

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