

Software requirement specification -Centralized DBMS Dashboard for Industry Relations Program

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Project Title	Industry Relation Programme (IRP Visit)

Tech Stack

Frontend	Angular
Backend	Node,express js
Database	MongoDB

Problem Statement

The lack of a dashboard for the industry relations program leads to:

Data Management Challenges:

Currently, our Industry Relations Program lacks a systematic approach to manage and leverage data of industrial persons attending webinars or workshops.

Lack of Centralized Dashboard:

The absence of a centralized dashboard within a DBMS makes nurturing long-term relationships with industrial partners difficult.

Impact on Decision-Making:

Inefficient data management hampers our ability to maximize industry partnerships by constraining collaboration optimization, resource allocation, and program effectiveness.

Need for Effective Solution:

We need a centralized DBMS dashboard for efficient data consolidation, enabling data-driven decision-making to enhance collaboration and impact in our Industry

Relations Program.

Project Flow

Purpose:

To develop a centralized DBMS dashboard to address data management challenges and facilitate the relationship with industrial experts, enabling efficient data consolidation and data-driven decision-making.

Scope

This system includes user authentication, a real-time dashboard for viewing and managing data of industrial experts. It integrates the information of the professor who organized the event

Functional Requirements

User Authentication:

Secure login using credentials or Google Authentication.

Management:

- Develop modules to capture and store data of industrial persons attending webinars or workshops.
- Enable data organization and categorization based on attendance, participation history, and other relevant information.

Dashboard Features:

- Design interactive dashboard components for viewing industrial persons' data, participation trends, and program effectiveness.
- Include functionalities for filtering, searching, and exporting data.
- Information about the faculty who coordinated the event or maintained contact with the industrial experts.

Reporting and Analytics:

Implement tools for generating insights on participation, trends, and impact.

Non-Functional Requirements

Scalability

Ensure dashboard scalability to accommodate growing data volumes and user traffic.

Security

Implement robust measures to protect data storage, access, and transmission.

Performance

Optimize dashboard performance for fast loading and responsiveness.

Dependencies

- Integration with Google Authentication for user authentication
- Database to store the information of industrial experts

User personas

Admin:

Manages the data, updation of information

Faculty :

Require the access the information of industry persons

Flowchart



