# BANNARI AMMAN INSTITUTE OF TECHNOLOGY

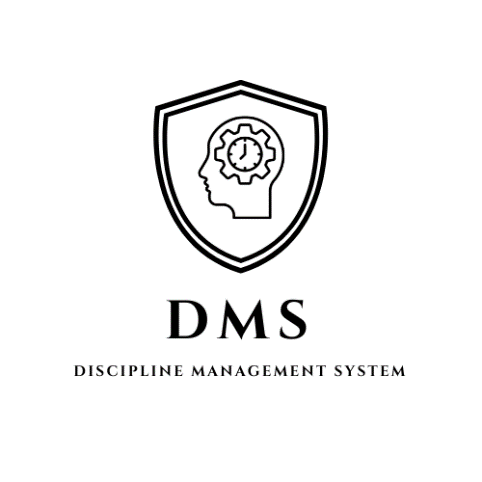
**An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade**

**Sathyamangalam - 638401 Erode District, Tamil Nadu, India**

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| **STUDENT NAME:** | **HARSHATH RAGAVENDRA V** |
| **PROJECT ID:** | **35** |
| **PROBLEM STATEMENT:** | **BIT - DISCIPLINE** |
| **PROJECT TITLE:** | **Discipline Management System (DMS)** |

## TECHNICAL COMPONENTS

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| **COMPONENT** | **TECH STACK** |
| Frontend | Angular / React.js |
| Backend | Java with Spring Boot |
| Database | PostgreSQL  MySQL |
| API | OpenAPI  SOAP APIs  REST Ful API |

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**DMS (DISCIPLINE MANAGEMENT SYSTEM)**

**PROBLEM STATEMENT:**

The current system for managing student discipline cases is manual and inefficient, leading to delays and inaccuracies in reporting and addressing issues. There is a need for an automated, user-friendly platform to streamline the process of reporting, tracking, and managing student discipline cases, ensuring timely actions and maintaining comprehensive records.

**PURPOSE:**

The purpose of the Discipline Website is to provide a centralized, automated platform for reporting and managing student discipline cases. This system will facilitate efficient communication and coordination among staff, DC teams, and administration, ensuring timely and appropriate responses to discipline issues.

**SCOPE:**

The Discipline Website will cover the following functionalities:

* Allow staff to report discipline cases via an online form.
* Auto-complete student details based on roll number.
* Enable the DC team to view and manage reported cases.
* Provide an enquiry process with automated notifications and action tracking.
* Generate and export reports in multiple formats (Excel, Word, PDF).
* Implement unique ID generation and entry restrictions to prevent duplicate reporting.
* Provide automatic mail ID blocking for repeated offenses.
* Include photo proof uploads for reported cases.
* Ensure security and data protection for all user interactions.

**BUSINESS CONTEXT:**

The Discipline Website will be used by educational institutions to manage student discipline cases more efficiently. By automating the reporting and management process, the institution can reduce administrative overhead, ensure timely interventions, and maintain accurate records. This system will enhance the institution's ability to uphold discipline standards, thereby improving the overall academic environment.

**CONSIDERATIONS**:

* Usability: Ensure the system is easy to use for all staff members, including those who may not be tech-savvy.
* Security: Protect sensitive student information and ensure data privacy.
* Scalability: Design the system to handle a large number of users and reports.
* Integration: Ensure compatibility with existing systems and databases used by the institution.
* Compliance: Adhere to relevant regulations and policies regarding student data and disciplinary actions.

**DEPENDENCIES:**

* Database: Reliable database management system to store student and discipline case information.
* Email Service: Integration with an email service for notifications and mail ID blocking.
* Authentication System: Secure authentication mechanism for different user roles.
* File Storage: Storage solution for photo proofs and report exports.
* Staff Training: Training sessions for staff to effectively use the system.

**USER PERSONAS:**

1. **Staff Member**

**Role:** Reports student discipline cases.

**Needs:** Easy-to-use reporting form, auto-completion of student details, ability to upload photo proof.

1. **DC Team Member**

**Role:** Manages and investigates reported cases.

**Needs:** Access to detailed reports, enquiry process management, notification system, ability to download reports.

1. **Admin Team Member**

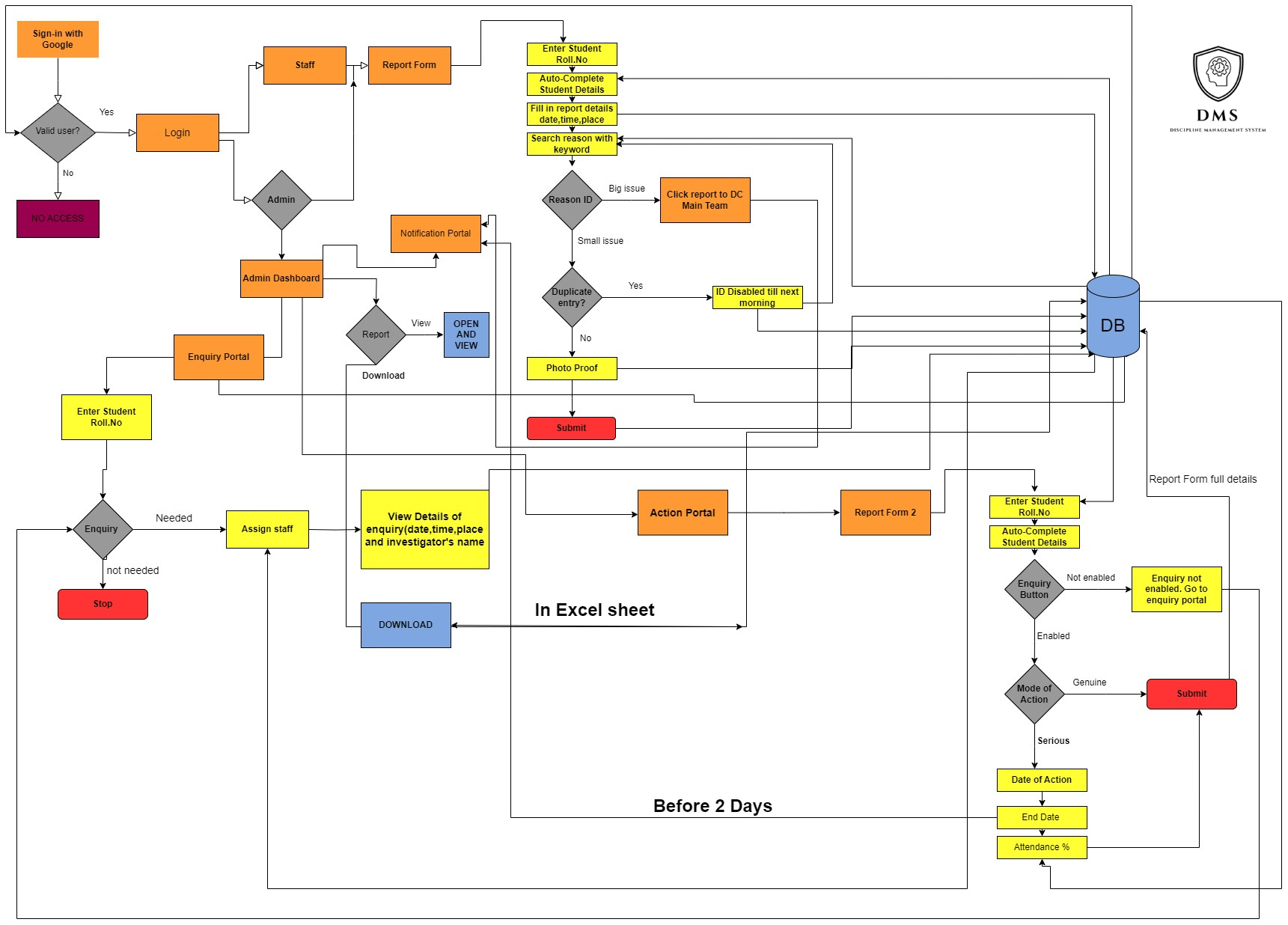
**Role:** Oversees the discipline management system.

**Needs:** Full access to all data, automated notifications for deadlines, ability to export reports, view attendance percentage.

**USER STORIES:**

* As a staff member, I want to fill out a discipline report form with auto-complete for student details, so I can report incidents quickly and accurately.
* As a DC team member, I want to view detailed reports of all discipline cases, so I can manage investigations and take appropriate actions.
* As an admin team member, I want to receive notifications about upcoming action deadlines, so I can ensure timely follow-ups.
* As a student, I want to be informed about discipline reports involving me, so I can understand the actions being taken.

**FLOWCHART:**

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