**PROPOSAL REPORT OF Mini-PROJECT**

**IV/III - I SEM – CSM/ AIML**

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| **Project Batch :** # ,    **Team Members:**  (Regd#s)  TM1 21BQ1A4210(TL),  TM2 21BQ1A4202,  TM3 21BQ1A4207,  TM4 21BQ1A4208,  TM5 21BQ1A4209,  TM6 21BQ1A4211,  TM7 21BQ1A4229,  TM8 21BQ1A4230,  TM9 21BQ1A4233,  TM10 21BQ1A4237,  TM11 21BQ1A4247,  TM12 21BQ1A4248,  TM13 21BQ1A4252,  TM14 21BQ1A4256,  TM15 21BQ1A4264. | **Project Guide**  **Dr.V.Muralidhar** |
| **Problem Statement:** **“Campus Grievance Hub”**  The College System Management Expert System with Grievance Handling Functionality is an intelligent computer-based application designed to enhance administrative processes within a college campus. It offers Campus Resources, Events and News Updates, User Registration and Authentication, Automated Categorization, Automated Acknowledgment, Expert Guidance, Data Privacy and Security. Additionally, the system includes a Grievance Handling module that allows students to submit complaints and grievances, which are then efficiently addressed by college authorities. The system utilizes a rule-based reasoning approach, and its knowledge base is regularly updated by domain experts. By promoting better resource allocation and transparent grievance resolution, the system aims to create a harmonious college community and improve overall college operations. | |
| **Software Tools Required:**  (Tools Required for building Web or/and Mobile Application) | **Members Assigned** |
| **Front-end:** HTML, CSS, JS, React JS  **Back-End:** Django, Rest(API) Etc.  **Data-base:** My Sql/Mongo Etc. | TM12, TM8, TM4, TM11, TM7  TM10, TM1, TM2,  TM13  TM3, TM5, TM6 |
| **Bussiness-Logic/ Models** : ML,DL,NLP,LLMs , APIs, AWS, CC and with Python, Java, and R. | TM15, TM5, TM14, TM9, TM3 |
| **Hardware Specifications: Mini Capacities for Execution of Proposed System**  **OS: win 10x / Linux /**  **RAM: 1 Gb**  **HDD: 1 Tb** |  |

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| **Graphic-Card: 1 Gb**  **Net-Bandwidth: 512 kbps ( for Cloud Computings or AWS )** |  |
| Features in Proposing System:   1. **Campus Resources**: Offer details about various resources available on campus, such as libraries, labs, counselling services,placement details etc. 2. **Extracurricular** **Activities**: Provide information about clubs, organizations, and events happening on campus. 3. **Events and News Updates**: Provide the latest updates on campus events, news, and announcements. 4. **User Authentication**: Users (students, faculty, staff) can login securely to access the grievance system and college expert system. Gust users can only login into only college expert system 5. **Automated Categorization**: The system intelligently categorizes grievances based on the provided information to route them to the appropriate department/person responsible for resolution. 6. **Automated Acknowledgment**: Users receive automated acknowledgments upon grievance submission, informing them that their concerns are being addressed. 7. **Expert Guidance**: In complex cases, the system can provide expert guidance to college authorities on how to handle the grievance effectively. 8. **Notification System**: The system sends notifications to users and administrators at various stages of the grievance resolution process. 9. **Data Privacy and Security**: The system ensures the confidentiality and security of user data and grievance-related information 10. **Feedback and Improvement**: Allow users to provide feedback on the expert system's recommendations to continuously improve its performance. 11. **Complaints interface**: The system has a complaint interface to lodge grievances by students,teachers and other staff.   12**.Admin Interface**: Creates and monitors accounts of grievance cell members and view complaints sent by the users.  13.**Grievance cell member** **interface**: Gives satisfactory solutions to the complaints registered.   1. **Status Generation**: The petitioner can track status of his/her grievance with this feature. 2. **Fairness check** : Checks whether the complaint registered is fair or not 3. **Documentation and knowledge base**: The system maintains a knowledge base of resolved grievances, providing a repository of information for future reference. 4. **Report generation**: Generates statistics like how many complaints registered per | |
| month/year. |  |
| **Sub Tasks for each Feature:** | Time Required to Complete in Weeks |
| **F1: Description**   * Task1 Description  Task 2 Description ….. * Task6 Description | ( 1 or 2 Weeks) |
| F2: Description …. | (2 Weeks) |
| Fn: Description: …. Taskn | (2Weeks) |
| Total Completion Tentative Time Duration | Sum( all above Weed) 12 Weks |

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