Project Proposal

Project Title: Academic feedback system

Student Name: Nidhi Dattani

Enrolment no.: 92200133019

Subject: Capstone Project

Department: Information and Communication Technology

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MARWADI UNIVERSITY
Rajkot-Morbi Road, At & Po. Gauridad,
Rajkot-360003, Gujarat, India

Stakeholder Identification and Needs Analysis

My project is built around the needs of three key stakeholder groups: Heads of Department (HODs), Faculty Members, and Students. I have analysed their specific challenges to ensure the proposed solution is relevant and valuable.

- **Heads of Department (HODs):** As academic leaders, HODs face a significant challenge in effectively managing faculty performance and academic quality. They need a clear, objective way to assess teaching effectiveness, the fairness of assessments, and the success of faculty-led events. Currently, this information is fragmented, anecdotal, or buried in endless spreadsheets, making it difficult to spot trends or identify specific areas for improvement. HODs need a single, reliable source of data to make informed decisions about faculty development and resource allocation.
- **Faculty Members:** Faculty are the direct recipients of student feedback, yet they often receive it in a format that is not constructive or timely. They need a system that provides specific, actionable feedback on their performance without compromising student anonymity. Furthermore, they need a way to see how their teaching compares to past semesters, helping them to track their own professional growth.
- **Students:** Students are the end-users and the primary source of feedback. They need a platform that is simple to use, accessible from anywhere, and, most importantly, completely anonymous. Students often hesitate to give honest feedback on paper-based forms or in small groups due to fear of retribution or a feeling that their feedback will not be taken seriously. They need a secure and trustworthy system that respects their privacy.

My analysis of these needs is supported by several credible sources from the academic and professional community. For instance, a report from the IEEE highlights the growing need for data-driven tools in academic administration to overcome the shortcomings of traditional feedback mechanisms. Another case study on educational software development from a professional organization shows that user-friendly interfaces and clear data visualization are key factors in the adoption of new systems by both students and administrators. Finally, a published academic paper emphasizes that student participation rates in feedback surveys are directly linked to the level of anonymity and perceived utility of the system.

JUNE

07. MONDAY | 158-207 | WK 24

Vijay sir suggestion

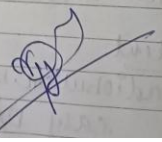
In assessment give remainder to students to prepare for quizzes and all.

Faculty should be able to comment on specified students regarding assessment regarding project assessment

~~If faculty is absent~~
~~Students should give feedback regarding topic so other students who are absent can know topic taught today.~~

08. TUESDAY | 159-206 | WK 24

Ih weeks 28 sessions verify that. soby that they can also see taught topic.



2021

Arzoo sir suggestions

JUNE

Faculty Dashboard

FRIDAY | WK 23 | 155-210 | 04

Every assessment was shown in faculty of every subject ✓

Then header should have links for easy UX. for every dashboard ✓
Overall feedback for particular faculty.
HOD Dashboard

Reports weightage should be their as per importance. ✓

SATURDAY | WK 23 | 156-209 | 05

Student list of daily selected students ✓
Manage users dropdown and apply filters to search student.

For student
keep radiobutton for feedback for easy UX.

SUNDAY 06

Arzoo

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24

2021

JUNE

02. WEDNESDAY | 153-212 | WK 23

Nishith sir suggestions

For assessment add plan keep excel file for elective subject and also show student list who enrolled in subject so faculty can review it and send email to enroll.

Add events - Add student list semester wise and subjectwise too.

03. THURSDAY | 154-211 | WK 23

For assessment after the week 1 is done and assignment is provided after that only students can verify.

Enrollment for faculty is also 4 digit. ✓

Atefar

1

JUN

Mitesh sir suggestions

WEDNESDAY | WK 24 | 160-205 | 09

Event feedback by students.

Sir

Harikesh Chauhan Sir Feedback

Registration for events for faculty and students both. (Email notification)
Event details | show faculty who added the event.

HarikeshChauhan

Problem Statement

Based on the identified needs of my key stakeholders, the core problem is that Heads of Department lack a centralized, data-driven, and trustworthy system to collect and analyse student feedback on faculty teaching, assessments, and events. This deficiency hinders effective decision-making for faculty evaluation and academic quality improvement.

Ideation of Solutions

I have developed three potential solution ideas to address the problem statement, all of which are grounded in the ICT domain and address the stakeholder needs.

1. **Web Application and Analytics Dashboard:** This is my primary solution, which I have already outlined. It is a full-stack web application with two main parts. The first part is the student interface, built with a clean, simple design in HTML, CSS, and PHP, that allows students to quickly and anonymously submit feedback. The second part is a secure HOD dashboard that uses PHP and MySQL to generate dynamic, real-time charts, and graphs. This solution directly addresses all stakeholder needs: it provides a centralized system for the HOD, gives actionable feedback to faculty, and ensures anonymity for students.

Relevance to ICT Domain

All my solutions are deeply relevant to the ICT domain. My selected solution (the core web application and analytics dashboard) directly applies principles of Software Development and Database Management using a proven technology stack (PHP and MySQL). It also represents the modern ICT trend of Data-Driven Decision Making. By transforming raw data into clear, visual information, the project turns a simple feedback collection tool into a powerful analytical instrument for academic administration.

The more creative solutions also align with current trends. The mobile application idea relates to Mobile Computing and User Experience (UX) Design, while the sentiment analysis tool touches on Artificial Intelligence (AI) and Natural Language Processing (NLP). The entire project highlights the potential of ICT to solve real-world problems in education, offering a significant improvement over manual, paper-based systems. It shows how technology can be used not just for automation but for providing deeper insights and fostering better communication among all academic stakeholders.