

Department of Information Technology

School of Studies in Engineering and Technology

B. Tech- VII Semester (Session 2022-23)

Project Synopsis

Name of Project Members (With Roll Number):

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Project Title: Student Support And Progression (CRM)

Abstract of Project

Student Support And Progression(CRM- Content Resource Management) is the platform in which all student of our college or other colleges can create a community and ask questions. This is on-campus discussion forum for the student of the campus. The platform Student Support And Progression is a brand-new self-contained website meant to be used for students interaction platform for the students of GGV, where the students can ask questions and have discussion pertaining to institute-specific as well as global issues and topics. The user needs to create an account to post, answers to questions or a requests or creating polls.

Introduction

Student Support And Progression - this website to develop for one roof platform for the effective interaction, effective exposers, and a right direction towards communication. This application is to provide our user opportunities to enhance their knowledge by sharing their views (by asking and answering questions or voting in a poll) by having discussions with other users. Also, Students can share their achievements like GATE/CAT/GRE/JAM score card, achieved medals in competitions, scholarships, etc. It will help the department to collect the data of students of the department.

Literature Review

These are some researches work we came across which have some similarities with our projects:

- In 2021 Purnima Sharma and his team developed an online community of people providing answer to question. The application name was kurakoo.
- In 2019 Abhilash Pani Student of IIIT Naya Raipur. Designed website named CampusCharcha that on the campus discussion forum.

But after going through this paper, we come to know that there is not so much work has been done on such type of application. So, we aimed to work upon this problem statement which we fill is urgency of the hour.

Objectives

To implement era machine learning and blockchain integration to develop a one roof platform for effective interaction, effective exposure and quality communication between the students regarding questions and answer-based discussions. This project will be developed using Full-Stack.

Proposed Methodology

The **prototyping model** is a systems development method in which prototype is build, tested, and then reworked as necessary until an acceptance outcome is achieved from which the complete system or product can be developed. We will follow the following methodology: -

- Requirement Analysis
- Feasibility Study
- Create a prototype
- Customer review and approval
- Design
- Coding
- Testing
- Installation and Maintenance

Expected Outcomes

With the help of this web application students can ask theirs doubts related to academia, about any subject related to their course and also post their achievements that will help the department to collect the data of the students. The senior students and teachers will help to solve the doubts of the students. Using this platform student can exchange their knowledge and experience in the college campus. Students (who have a desire to acquire knowledge) can use this platform to enhance their knowledge.

Feasibility Study

Validating appropriate objectives for a website project is a crucial stage in determining its feasibility. Although we are looking on different aspects of our project and trying our best not to get into any sort of unsolvable issue. But there are always be some challenges in this project. The major challenge is blockchain integration which can be used to optimize processes and enhance security.

Hardware/ Software Requirement:

Software: VS code, Git, GitHub, Postman, Heroku, Figma.

Frontend Technology: HTML, CSS, JavaScript, React

Backend Technology: NodeJS, MongoDB, Django, SQL, Blockchain, ML, Redux and Firebase,

Application of Project:

- Using this website, department can collect data of students like their achievements, rewards, extracurricular activities, etc.
- Student of college/University visit this website to ask questions to a community of students and faculty who are always ready to answer them.
- It will help collaborating new comer students in campus, quality communication between the students.

Future work (Scope of work):

For the aspects of the work, there are some functionalities which could be added to the project.

- Direct Messaging platform on the college intranet even having options to create survey.
- Using semantic analysis to remove the similar questions automatically separating that topic in the different categories.
- Functionalities like bookmark questions, archive and many more.
- Automatic analysis of the poll displays as soon as the poll ends.

Name of the Proposed Guides:

1. Asst. Prof. Deepak Kant Neetam

Signature

2. Dr. Agnivesh Pandey

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HOD (IT)

