FEASIBILITY STUDY

AND

REQUIRMENT ANALYSIS

Submitted by:

Ivan Joseph Regi

S3RMCA-A

Roll No: 48

Feasibility study for Tution Centre - Student Management System

Introduction

The Tution Centre Student Management Systems (TC-SMS) is a web-based application designed to streamline and enhance the management of student-related information within tution Centers. This System aims to provide a Comprehensive and user-friendly solution that empowers administrators, Staff, Students and Parents to efficiently manage and access critical educational data.

Technical Feasibility

The choosen technology is well established and widely used whether the system can scale to accommodate future growth in terms of users, data and functionality. Whether the system can integrate with other existing systems or tools used by certain institution like Tution Centres. It able to implement robust data security measures.

Behavioral Feasibility

The platform, user-friendly design, institutive navigation and extensive features are likely to encourage user adaptions. Also implementing a user rating and feedback system, along with clear policies and dispute resolution mechanism.

Operational Feasibility

Access the availability of human resources, such as administrators and technical support staff, required for system operations and maintanence. The project with legal and regulatory requirments by adhering to data protection laws.

Economic Feasibility

From an economic perspective, the project shows promise. While there are initial development costs, the potential benefits, such as increased efficiency, reduced paperwork, improved communication and the possibility of cost saving over time, outweigh these costs.

Conclusion

The TC-SMS is a project that can bring substantial benefits to the educational Institution like tution centres etc. Regular monitoring and evaluation during the implementation phase will be crucial to ensure that the project stays on track and delivers the expected results.

It follows some questions:

i. **Do the stakeholders have the expertise needed?**

As it is an academic project there is no organisation or company it means there is no need of stakeholders or expert professionals. The technology used by me is guided by my scrum master which will help me to become an expert.

ii. **Are additional resources needed in the system including infrastructure, skill- sets or job-aids?**

As it is an academic project so there is no need of infrastructure in big amount and there is no chance of job-aids until and unless I make it as a professional project.

I just need resources which is available from internet and rest is guided by my scrum master which will help me to increase my skill-set.

iii. **Is the system ready in terms of technology required?**

Yes, my system is ready in terms of technology required because the programming language I am going to use supports mostly all types of technology very easily, it is very compatible and interoperable.

iv. **Do existing system procedures and protocols support the new services?**

Yes, the software selected by me as a part of academic project supports all types of procedures and protocols. Which will help me to use new services or technology which will make my project more user friendly.

v. **How will the collaborators be involved?**

As it is a part of academic project so there is no need of collaborators. All the work is done by me with guidance and surveillance of my scrum master. As my website is very user friendly so customers or vendors do not need specific training to get familiar with my website

vi. **Do the resources needed exist?**

Yes, the resources needed by system to fulfil the organisational requirement exists in most advance form.

vii. **Will the proposed services or initiative led to better use of resources to improve the outcomes. When compared with other options?**

The proposed services or requirements will utilize the resources efficiently so that desired outcomes can be acquired. The technology used by me supports all types of features and functions which compare to other technology is complicated to implement.

viii. **Can you describe the user registration and login process?**

User register with their details, and login requires a username and password.

ix. **What technology tasks is used for the platforms development?**

The front-end is developed using HTML/CSS and javascripts, the back-end uses python Django and database is sqlite.

x. Can Staff view user data without their consent?

No, Staff can only access user data related to their academic session. Privacy and consent are respected at all time.

Contact to:- Shaji Joseph, Brilliant Study Centre

Requirement Analysis

1. Projects Overview

The platform aims to create a web-based application built on Django framework, designed to enhance the management of student-related information within educational Institutions. This system aims to provide a comprehensive solution for many tution centers to efficiently manage student data, academic records, attendance and communication between staff, parents, students and Admin.

2. To what extend the system is proposed for?

The proposed system appears to be a comprehensive solution design to address various aspects of managing student related information within educational institution like tution-centers. The extend to which the system is proposed for includes:

Core Functionalities:

The system covers core functionalities expected in such a system, including managing student records, academic information, attendance, communication and payments.

Communication Channels:

It provide communication channel between staff, parents, students and admin allowing for efficient and transparent communication. Features like the chatbot facilitate real-time communication.

Data Management:

The system covers core functionalities handles essential data management tasks such as adding, editing and deleting student, staff and parent records. It also allow for the management of subjects and payments, which are vital for any tution centre.

Academic Tracking:

For Staff and parents, the system offers academic tracking capabilities, including attendance records and academic progression. This ensures that stack holders can monitor a student's educational journey effectively.

Feedback and Review:

The System include features for feedback and review students and parents can provide feedback, and there's even a mention of using Machine Learning for reviews, suggesting an advanced Feedback System.

Payment Management:

Efficient payment management is vital, and the system allows for handling of payments, which is especially important for tution centres.

Technological Integration:

The system integrates various technologies such as chatbots for natural language processing and machine learning for reviews, indicating an openness to utilizing modern technology for enhanced fuctionality.

The system is proposed for comprehensive and covers a wide range of fuctionalities, making it suitable for managing various aspects of student information and communication within tution centers.

3. Specify the viewers/Public which is to be involved in System?

The platform is designed to serve several viewers or users who interacted with the system. Here's a specification of viewers and public who are expect to be involved.

Users (Students):

Students can be involved in various aspects related to their education and interaction with the system.

Administrator:

Managing the entire system. They have access to all administrative features and are respondible for system.

4. Modules included in your system

- Attendance
- Academics
- Leave
- Feedback
- Payment
- Chatbot
- Notification

5. Who owns the system

The tution centre initiated the development of system and fund the projects, they may retain ownership of system. In this scenario, tution centre would have control over the system's use, modifications, and access.

6. **Users Identified**
    - Admin
    - Staff
    - Students
    - Parents

7. **Related firm/Industry/Organization:**

    The Platform is designed for educational institutions, specially tution centres. This system is intended to stream line and enhance the management of student-related information, communication and administrative tasks within tution centres.

8. **Data Collection Contents:**

    - Visited online tution centre website eg: https://www.tutorhouse.com/