"An Android-based Mobile Application for Connecting Teachers and Students Together"

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ABSTRACT - *Teaching is more and more turning into a alternative of financial gain for an oversized range of individuals everywhere around the globe. Primarily as a result of its a few extraordinary benefits over the traditional ways of teaching. Ability in operating hours, likelihood to succeed in a bigger audience, usage of easy devices, the convenience of on-line resources area unit a couple of benefits that stand out. From increasing the horizon of learning atmosphere to making lessons, getting ready lecture subjects, and enhancing student engagement, the learning-oriented mobile application will facilitate maintain learning even outside the school rooms. By having a right set of teaching computer code, lecturers and educators will contour their activities like keeping attending, recording behavior, participating students within and outdoors the schoolroom with effective communication. during this "Guru Shishya App" we tend to area unit reaching to build safe house for students further as lecturers whereby students will realize the simplest mentor for themselves as per their want. We are going to create this application using Android studio. This Mobile application is going to reduce the tedious job of finding a good teacher for students. They can communicate with each other via a chat-based system. It provides a safe place to connect with teachers and students.*

Key Words: **Teaching, Mobile Application, Android Studio, Teachers, Students**

1.INTRODUCTION

The future development of any country is in the hands of teachers. What we become in life also depends on the teachers. A good teacher helps us to become good human beings in society and good citizens of the country. Education is essential in everyone's life because education plays different roles at different stages of life [1].

In today's era due to science and technology the property is in our way of life method. Information Technology has revolutionized the lifetime of the planet and has created life easier through varied forms of applications[2]. within the light-weight of the speedy changes with the utilization of IT, there are several tools, technologies and systems that are made and fabricated. Here's where this application comes into play. It'll encourage students to seek out an acceptable teacher or tutor for themselves so as to sharpen their skills. Additionally, it'll facilitate coming up with employment for the graduated youth who are willing to show, enhance, and nurture the way forward for our young and growing generations.

1.1 OBJECTIVE

The Objective of Guru Shishya App is to provide better facility to the students and teachers.

1) Reduced efforts to find good teachers.

2) Increased performance.

3) Can Connect with each other easily.

4) Increased connectivity

5) Reduce Unemployment Rate.

6) Efficient use of Knowledge

Through this app, it will be easy to filter out for both teachers as well as students. As experience is a deal-breaker for getting a good job here everyone will get a chance to start from the bottom.

1.2 SCOPE

One of the most flexible careers available is online tutoring. If you're a student, you can teach the students whenever you choose. You may easily devote 2 or 3 hours per day if you take some time out of your routine. If you're a working professional wishing to supplement your income by teaching, part-time tuition employment is ideal. You can choose your schedule, the number of students you'd want to teach, and the topics you'd like to cover.

1.3 AIM

1) The main aim of the project Guru-Shishya Mobile Application is providing a platform for teachers to guide various students for their better future.

2) It is hard to find good Teachers. Students often need teacher for specific subject through this application one can easily find the guide that suits them best.

3) It provides a safe place to connect with teachers and students.

4) They can communicate with each other via a chat based system.

5) Through this app it will be easy to filter out for both teachers as well as student.

6) As experience is a deal breaker for getting a good job here every one will get a chance to start from bottom.

1.4 FEATURE

Some of the key features of the Guru- Shishya app are-

a. Easy profile accessibility

b. Admin login section

c. Message /chat and call

d. Login/ logout page.

e. Search student/teacher

f. Review / rating

2. LITERATURE SURVEY

Teachers make the world a better place to live in [3]. They set a tone of the school, mentor & teach children & nurture them well. That's why the role of the teacher as a moral guide is critical in one's life. Today we should know that only teacher can change the economic, moral & social life of an individual [4]. With the growing demand for pupils, there is no doubt that the demand for skilled teachers will increase in the future. Customers can identify potential teachers anywhere and contact them at any time via mobile apps. Connectivity is a part of our daily lives in today's era, owing to science and technology.

In the modern world, time is short so if there are many processes taking place at the same time within a place there is a need for integration of all the processes, creation of a paperless environment also ensures efficient task management. Nowadays all businesses are shifting to a computer-based system. The purpose of having a computer-based system is, it helps to increase the market share and it's very easy for everyone to use. This project is concerned with developing a Teacher-student application.

Information Technology has transformed the world's life and made it easier to live through a variety of applications. Many tools, technologies, and systems have been developed and designed in response to the rapid changes in the use of information technology. We all know that knowledge and information are becoming increasingly important in all aspects of life. Every problem in the modern digital world has a digital answer. Our guru shishya app has a unique collection of capabilities that allow us to provide services to both teachers and students. This app creates a very healthy and comfortable learning atmosphere for pupils.
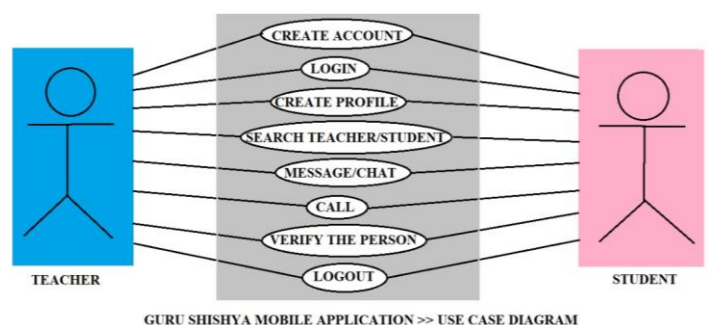
3. PROBLEM STATEMENT

There are a lot of outstanding teachers out there that are going undetected. This app will give teachers a place to display their educational credentials and mentor children for a brighter future. It is difficult to locate qualified professors. Students frequently require a teacher for a specific subject, but they can readily locate a competent guide who best meets their needs. Students are prone to become easily demotivated. This software provides a secure location where users may post motivational quotations, experiences, tales, and setbacks in order to inspire themselves and others. Today it is imperative to not only use the traditional forms of communication but also newer forms such as mobile technology for quicker and easier communication among the students and teachers.

4. PROPOSED METHODOLOGY

Mobile Apps are the most affordable and effective way to reach out to customers [5]. Service Provider is an android application that provides different services to the customer. Android Studio is the tool for building the application. This is much compatible for mobile and tablet. The customer can log in to the system and choose the teacher/ student they find suitable. And the students who want to work part-time can also register and find work

5. USE-CASE DIAGRAM

This Use Case Diagram is a graphic depiction of the interactions among the elements of this Guru-Shishya Application. It represents the methodology utilized in system analysis to identify, clarify, and organize system requirements of this application. The main actors of Guru - Shishya in this Use Case Diagram are: Teacher and Student who perform the different type of use cases such as Login, Create Profile, Search Teacher, View Ratings, Communicate, View Courses and Approval. Major elements of the UML use case diagram of the Guru - Shishya Application are shown on the picture below.

GURU SHISHYA MOBILE APPLICATION >> USE CASE DIAGRAM

a) TEACHER USE CASE :

The Teacher has the following set of use cases:

    i.   Login

    ii. Create Account

    iii. Message / Chats

    iv. Verify the Person

    v.   Approval

b) STUDENT USE CASE :

The Student has the following set of use cases:

    i.   Login

    ii. Create Profile

    iii. Search teacher

    iv. Message / chat

    v.   Verify the person

7. ADVANTAGE

- The app will be user friendly .

- It will show the strong subjects of teacher.

- The students can find the best teacher available near them in a click and vice versa.

8. CONCLUSION

Generations of students will help to improve their country and the whole world because of teachers. The proposed application will help students and teachers to find each other and work in a group or privately. The student and teacher both will be verified. The student can know more about the teacher by chatting/calling with them to get a clear view about the subjects taught by the teacher, as well as to find if they are appropriate for them or not.

The vision of the project is to help those who need to restart their journey or need to find someone to help them overcome the obstacle.

9. ACKNOWLEDGEMENT

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