Giới thiệu đề tài

Giới thiệu Đề tài: TutorKit - Ứng dụng Quản lý Gia sư cho Android

Tên ứng dụng: TutorKit

Mô tả:

"TutorKit is a mobile application designed for tutors on the Android operating system, helping them efficiently and conveniently manage students and teaching schedules."

**To address the challenges**

Tutors often face difficulties in managing teaching schedules and interacting with students on mobile devices. Using traditional management tools may not be suitable for their mobile lifestyle.

**By providing an intuitive mobile application**

TutorKit provides an easy-to-use mobile application that allows tutors to manage teaching schedules, track students' academic progress, and interact directly with them through messaging and calls.

**With its focus on overall optimization of the teaching process**

TutorKit aims to become an indispensable mobile application for tutors, helping them optimize the teaching process and create the best learning experience for students.

Các công nghệ dùng trong đề tài

**In TutorKit**

Java:

Java is the primary programming language used for developing mobile applications on the Android platform. Java is chosen for its flexibility, performance, and widespread adoption within the mobile app development community.

**Complementing Java**

Firebase:

Firebase is a mobile and web app development platform provided by Google. In TutorKit, Firebase is used for:

Authentication: Firebase Authentication allows users to easily and securely log in and register accounts.

Realtime Database: Firebase Realtime Database is used to store and synchronize data between user devices.

Storage: Firebase Storage is a storage service for files such as images, videos, audios, or other app files.

Kết quả đề tài (liệt kê các chức năng)

**"In tutorkit,**

"Both roles, Tutor and Student, can register and log in to the application. They can update their personal information including email and password to secure their accounts. They can also communicate with each other via messaging or calls."

**These are the functions of student: slide 5**

**These are the functions of tutor: slide 6**

Các bài toán, nghiệp vụ chính của đề tài và cách giải quyết

Bài toán 1: Approve Student

**The main problem and operation of the project is creation**

Students find and select a tutor that fits their learning needs, then allow the tutor to confirm or reject that student. When a student selects a tutor, that student's information will be displayed to the tutor and the tutor can confirm or cancel the student's acceptance.

**Workarounds for this issue may include the following steps:**

**Search and choose a tutor:**

Students can search for tutors based on criteria such as subject and region.

The system provides a list of tutors to students and allows them to choose.

When you click the "Choose" button, a new attribute will be added to the tutor's information containing the student's id with the status False.

**Confirmation of student by tutor:**

Once a student selects a tutor, the student's information will be displayed to the respective tutor.

Tutors can confirm students by clicking on the "Confirm" button, the student id's status will change to True and at the same time, a new attribute will be added to the student's information containing the tutor's id and the status. True.

If the tutor does not want to accept the student, he or she will press the Cancel button and the student's ID will be deleted from the tutor's information.

Bài toán 2: Payment

**The main problem and operation of the project is creation**

The tutor will manage the student's tuition invoice and the student can pay the tuition.

**Workarounds for this issue may include the following steps:**

Students will be able to pay tuition through their Paypal account.

Create an interface for users so they can choose a tuition plan and make online payments.

After successful payment, update the payment status in the student and tutor profiles.

Tự đánh giá về đề tài.

**There are some advantages of tutorkit:**

Comprehensive functionality: TutorKit provides a range of useful features for both tutors and students, from registration and login to managing schedules, grades, and fees. This creates a comprehensive and convenient user experience.

Flexibility: The application allows users to update their personal information, manage their schedules, and even make online payments. This provides flexibility and convenience in using the application.

Interactivity: The mechanism for confirming students between tutors and students creates a positive and efficient interactive environment. This helps both parties interact and learn from each other in the best possible way.

**The future improvements outlined for TutorKit build upon its existing strengths to further enhance user experience and accessibility.**

Integrate with multiple devices:

Ensure that the application is available on various device platforms, including mobile phones, tablets, and web platforms.

Integrate notification system:

Utilize the operating system's notification system (such as Firebase Cloud Messaging for Android) to send notifications to users.