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**Teacher Student Evaluation System (TSES) Documentation**

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1. **Introduction:**

The Teacher Student Evaluation System (TSES) streamlines academic resource management by facilitating seamless communication between teachers and students. This application empowers teachers to share class information, manage attendance, and enroll students in courses, while providing students with easy access to teacher details and class-related functions.

**2. Installation:**

To install TSES, download the attached APK file provided in this document and follow the installation instructions.

**3. User Authentication:**

User authentication is a crucial aspect of TSES, ensuring secure access to the application's features.

**3.1 Firebase Authentication:**

TSES employs Firebase Authentication to verify user credentials, offering a secure and reliable signup and login process for both teachers and students.

**3.2 SQLite Local Database:**

The application utilizes SQLite local database to store minimal user information, ensuring efficient data management.

**4. Application Flow:**

TSES follows a logical flow from the splash screen to specialized screens for teachers and students.

**4.1 Splash Screen:**

The splash screen briefly displays the application's icon and name for three seconds, creating a visually engaging introduction before transitioning to the route screen.

**4.2 Route Screen:**

The route screen presents two buttons, allowing users to choose between the Teacher and Student interfaces, guiding them to the respective functionalities.

**4.3 Teacher Screen:**

Teachers access specific features through the teacher home screen.

**4.3.1 Teacher Home Screen:**

This screen provides teachers with options to share class details, mark student attendance, and enroll students in courses.

**4.3.1.1 Share Class Details:**

Teachers use this feature to share comprehensive class details with students, ensuring effective communication of course information.

**4.3.1.2 Tick Student Attendance**

Teachers can efficiently manage student attendance, promoting real-time data accuracy and record-keeping.

**4.3.1.3 Enroll for Courses:**

This functionality allows teachers to enroll students in specific courses they are teaching.

**4.3.1.4 Future Modification: Quiz Assignments:**

In future updates, TSES will introduce a feature for teachers to create and assign quizzes to students, enhancing the assessment process.

**4.3.1.5 Future Modification: Recorded Sessions:**

Additionally, TSES will support recorded sessions, allowing teachers to record and share lectures for asynchronous learning.

**4.4 Student Screens:**

Students access tailored features through the student home screen.

**4.4.1 Student Home Screen:**

Students enjoy various options such as checking teacher details, marking attendance, and enrolling in courses for their learning journey.

**4.4.1.1 Check Teacher Details:**

Students can review teacher details and confirm class schedules for improved communication.

**4.4.1.2 Tick Attendance:**

This feature allows students to mark their attendance conveniently, enhancing the overall efficiency of the learning process.

**4.4.1.3 Enroll for Courses:**

Students can enroll in courses through this function, enabling seamless access to educational resources.

**4.4.1.4 Future Modification: Quiz Assignments:**

For students, upcoming updates will include the ability to receive and complete quiz assignments, fostering interactive learning experiences.

**4.4.1.5 Future Modification: Recorded Sessions:**

Students will also benefit from recorded sessions, allowing them to revisit lectures and engage in flexible, self-paced learning.

**5. Firebase Firestore:**

The integration with Firebase Firestore enhances data storage and retrieval capabilities, enabling efficient data management.

**5.1 Real-time Database:**

Firebase Realtime Database facilitates real-time data synchronization, providing a responsive and dynamic user experience.

**6. Conclusion:**

In conclusion, the Teacher Student Evaluation System (TSES) is a robust application designed to enhance the interaction between teachers and students. Through its user-friendly interface, secure authentication methods, and seamless data management with Firebase, TSES offers a comprehensive solution for effective academic resource management. The upcoming features of quiz assignments and recorded sessions for both teachers and students will further enrich the educational experience, providing a holistic platform for interactive and flexible learning. The combination of Firebase Authentication, SQLite Local Database, and Firebase Firestore ensures a reliable, real-time, and secure experience, fostering an environment conducive to streamlined communication, academic success, and continuous improvement.