TITLE: TIMETUNE

Introduction:

dynamically with students receiving real-time updates through the app and push notifications. This system enables teachers to swap lectured

managing the backend (authoritication, messaging) The system follows client-sever model, with the Android app as the dient and firebase services Current Software Architecture:

Proposed Software Architecture:

Follows the MVC pattern.

in USON like-format for lectures, while user data 15 managed by firebase Authentication. Persistant Dato Management: Data is stored

encrypted data storage. Authentication manages access control with Access Control and Security: Firebase

handles real-time updates and concurrency. No explicit threading is needed. Global Software Control: Firebase

Fivebase listeners at Shutdown, and handled authentication at startup, terminates Boundary Conditions: App checks

Subsystem Gervices:

User Management: APIS for user creation

login and logout.

Lecture Management: To retrieve and swap lectures.

Firebase Messaging. Notification: To send notifications using

SYSTEM ARCHITECTURE



