Android Project Description

Project Name: HealConn

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Description:

We are envisioning a mobile application to help students make better use of college medical centers' services as well as to help medical professionals keep things more organized and connect better with their patients(students). Ideally, this mobile application will make the treatment process more effective and more efficient for both students and doctors.
Specifically, a user can log into the system either as a student or a medical professional(school medical centre). By logging in as student, one can conveniently find suitable doctors by entering their medical needs and filtering through doctor profiles. Students can then check doctors' availability and schedule appointments at their own convenience. Medical forms as well as patients past treatment report can be uploaded through the mobile application prior to the visit, this way doctors can start analyzing the data and make better treatment decisions even before the patients' arrival. There will also be a info section which contains general health advice and recent epidemics status uploaded by the doctors. For services outside the capabilities of school medical centre, students will get recommendations and directions.
On the other end, doctors can use this application to setup their availability for students to review. The finished treatment report or medical lab report can be uploaded for students to review. Doctors can also upload general medical advice and solutions for students to consult. Additionally, both parties can send messages to each other regarding the treatment process.

Supported Features from Android:

1. Notification: student(patient) will be notified when a new diagnosis report or a new message becomes available from the medical centre. Doctor will receive notification when new appointment has been scheduled by students.
2. Geo Location: student can get locations of school medical center as well as other nearby medical institutions through embedded Google Map support.
3. Motions and Gestures: gesture can be used when accessing embedded Google Map support. It can also be used for viewing the contents.(zoom-out and zoom-in)
4. Camera: patients can take pictures of their body and upload it to the doctors to keep track of how well the body recovered after treatment.
5. Front Camera: front camera can be used to upload a user account profile picture.
6. SQL Lite DB: this can be used to store doctor's profile and appointment calendar as well as patients' profile, treatment and lab report.
7. Android Printing Framework: both patients and doctors will be able to find printers and print over WiFi as soon as they receive the documents. This application will support this feature.
8. Search Framework: application can integrate search ability to quickly find documents or messages.
9. Auto Screen Rotation: application support both orientations based on how user hold the device
10. Full-Screen Immersive Mode: application will fully utilize the size of the screen for displaying patients treatment report as well as doctor's profile.