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## **Individual Project Contribution Report**

**Lecture Monitor**

**ARATECH - MOBILE**

### **BACKGROUND**

I am John Kwame Dunyo, a member of the Aratech Mobile Team. The mobile team is responsible for developing a mobile application, (android based) that will help users interact with the Lecture Monitor.

The mobile application uses Java as the programming language of choice, which is used to build a native android application. Some libraries used by the mobile application includes

- Google material design library - For beautiful designs following the material design specification
- Glide - For easy loading of images
- Retrofit and okhttp - For connecting to the backend rest api, etc

The main tool used is Google's android studio, version:

### **PROJECT CONTRIBUTIONS**

Helped in designing and setting up of Boiler plate for mobile

Designed and implemented a Login page for lectures using google material design library

Designed and implemented a Sign up for lectures

Designed and implemented a Navigation drawer for lecturer home page to facilitate faster page navigations

### **CHALLENGES FACED**

One of the main challenges I faced throughout the project development has been the low processing power of my laptop. I use an HP laptop with an Intel(R) Pentium® CPU running at 1.60GHz and a 4 GB ram. This obviously is a very slow machine. This, notwithstanding, I was able to set up android studio with the android virtual device. However, anytime I tried running the application on the virtual device, the whole android studio freezes.

Thus, the only option left is to run on an external android phone connected via a USB, but I use a Samsung Galaxy S5 with an android version of 5.0 which is below the requirements of mobile app.

With peer coding and using of team some members' phones to run the application, I was able to overcome this challenge until the country recorded covid19 and all schools were closed down.

Internet challenges has been the main challenge when we came home. All these has affected my contributions to the project.

However, despite all these challenges, I was able to contribute to the project.