



**\*Please make a copy of this document and include this in your GitHub repository for your submission, using the tag #AndroidDevChallenge\***

## Tell us what your idea is.

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*Describe in 250 words what the feature or service will do and how you'll use Machine Learning to push the bar:*

**Monanya** is the simple Android App to ease communication between the deaf and/or hard of hearing driver and with his/her passenger and vice versa. Nowadays, we know the people who suffers deaf and/or hard hearing encounter many obstacles when listening to someone else. Then, it will be harder to communicate when the deaf person is surrounded with noise and also when the passenger feels awkward. In order to ease them to talk with each other, I initiate to create **Monanya** that comes from Indonesia Language means "Want To Ask".

**Monanya** designed with small size and has ability backward support from Android JellyBean or known as Android 4.1 with SDK 16 and up. With small size, it will be expected to consume less data and save memory space. As we know that Indonesia still facing with Internet connection speed issues until right now, beside with pricey data package cost for most people. Monanya is using Bluetooth as the medium to connect with each other. Beside good choice to coverage small space, it won't interfere of ongoing data network in case they use portable modem to connect to the internet.

Currently, we still plan to use simple Speech To Text tools to implement my current goals. In the next step, we want to implement Live Captions to generate real time conversation and generate smart template as the shortcut answer when being busy. And the most important thing is we prioritize voice usage rather than keyboard to enter message input.

## Tell us how you plan on bringing it to life.

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*Describe where your project is, how you could use Google's help in the endeavor, and how you plan on using On-Device ML technology to bring the concept to life. The best submissions have a great idea combined with a concrete path of where you plan on going, which should include:*

- (1) any potential sample code you've already written,  
The code still being under development by myself. I will commit my latest code soon after my prototype app seemed well.



- (2) a list of the ways you could use Google's help,  
Google team can teach and train me how to build the proper app using Live Caption and how to calibrate voices especially in Indonesia language to generate proper message even in noisy environment. If possible, enlighten me to enrich some features to **Monanya** as alternative assistant.

- (3) as well as the timeline on how you plan on bringing it to life by May 1, 2020.

#### **December 2019**

Build the prototype app using Speech To Text tools with proper features.

#### **January 2019**

Improve the prototype app to be pre production app and enrich with some possible features

#### **February 2019**

Upload the prototype app on Google Playstore as Beta Tester and collect some suggestion based on the review

#### **March - April 2019**

Polish the pre production app to be final production app which improved based on the previous review.

#### **May 2019**

Showcase the final production app with additional features if possible.

## **Tell us about you.**

A great idea is just one part of the equation; we also want to learn a bit more about you. Share with us some of your other projects so we can get an idea of how we can assist you with your project.

Dear all. My name is [Affandy Murad](#) from Jakarta, Indonesia. Begin learned Android since 2015 with Java programming language when studying at University. Then begin to work professionally as Mobile Programmer since 2016 until now with both Java and Kotlin beside also develop IOS using Swift.

Currently, I have both personal projects and company projects that already published on Google Playstore. Here are following my project list:



## **PERSONAL PROJECTS**

### **Kurs Valas**

Developed since 2015 until now. This app will show the latest any forex rates from any Banks in Indonesia with Material Design Appearance with offline data store.

### **MyCampus**

Developed since 2015 and stopped after graduated from university. This app will show any academic information included with GPA and score list in Gunadarma University.

### **Commutrain** (Hold under development)

Developed since 2016 and hold due to API response development. This app will show any realtime information regarding KCI (Kereta Commuterline Indonesia / Indonesi Commuterline Train) schedules included with features to read trip history and balances of KMT (Kartu Multi Trip) card using NFC technology.

**Any unpublished app based on personal client requirements.**

## **COMPANY PROJECTS**

### **RHB Malaysia & RHB Cambodia**

Take part in development when I was working under Hitachi Ebworx Sdn. Bhd.

### **GAKKUM KLHK, LSC, Binmas, GAMES, SIAPIN, GAMES IOS, SIAPIN IOS**

Take part in development when I'm working under PT Docotel Teknologi until right now.

## **Next steps.**

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- Be sure to include this cover letter in your GitHub repository
  - Your GitHub repository should be tagged #AndroidDevChallenge
  - Don't forget to include other items in your GitHub repository to help us evaluate your submission; you can include prior projects you've worked on, sample code you've already built for this project, or anything else you think could be helpful in evaluating your concept and your ability to build it
  - **The final step is to fill out this form to officially submit your proposal.**

