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Android Personal Assistant

My project proposal is the creation of a Personal Assistant Application for Android devices. This assistant would be capable of performing basic functionalities at the request of the user through voice commands such as setting timers, alarms, searching the internet for information regarding a certain question, as well as other functions. It would do so by using the phone’s built-in microphone to detect when a person is speaking to it through a predetermined phrase followed by the request. This recorded audio would then be turned into text for the application to then process and understand what the user has asked. From there, depending on the circumstance the application would then perform a corresponding action in accordance with the request and display the results for the user to see on the screen. This would require the application to work hand in hand with multiple different applications that are pre-installed on most modern day phones such as their clock app, google maps, or their internet browser.

To keep user’s privacy secure, the application would be self-sufficient and entirely contained within the user’s device, forgoing the need to query an outside source for assistance in understanding the user’s request. This also means that any data collected from the user that’s necessary for the application to work would stay locally on the user’s device allowing them complete control over their own information.

The application would also need a form of memory, in which it is able to “remember” certain pieces of information such as its own name, the user’s name, and any other relevant information which would also be transparent to the user.

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