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**Abstract**

In this project, outdated communication medium was implemented on newer technologies; the solution of encoding messages using Morse code was explored. The Android and Raspberry-pi devices were platforms used to implement this functionality. Exchange of messages between two different parties are possible in 2 different ways:

* From one raspberry-pi to another via direct connection using IP address
* From one raspberry-pi to an Android device via the cloud using hostgator database.

Using two raspberry-Pi devices, the receiving party is only able to view sent messages. Using the raspberry-pi and the Android device, messages could be viewed and sent between the receiving and sending party. The Morse-pi project combines the use of obsolete and current technologies so it promises an even better and secure communication.

**Introduction**

The purpose of the Morse-pi project is to allow for a secure communication between two end-users. The problem solved by this project is to enable ease in the use of Morse code by radio communicators to transmit messages back and forth. This project will facilitate the protection of information by encoding it as well as ensuring ease in decoding it by its listener. Morse code is a predated communication tool used to represent text information in a series of electronic pulses, usually represented as a short pulse (called a "dot") and a long pulse (a "dash"). Only skilled listeners are able to translate and understand Morse codes. The theory behind the project is to apply the rigidity of older technologies and the flexibility of newer technologies to achieve a next-level style of communication.

**Declaration of Authorship**

We Chigozie Aham and Andrew McGuire, hereby declare that this thesis and the work presented in it is entirely our own. Where we have consulted the work of others, this is always clearly stated.

Signed:

Date: