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Discrete internet Communicator -An ultra-low power, low cost network connected haptic feedback wearable device.

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# Requirements

This section of the document outlines the overall requirements for the project and uses MoSCoW (Must have, Should have, Could have, Won’t have this time) prioritization. They are split into two sections functional and non-functional.

## Functional

|  |  |  |
| --- | --- | --- |
| Requirement # | Requirement description | Category |
| 1.1 | System powers on | Must have |
| 1.2 | System pairs with Bluetooth device | Must have |
| 1.3 | System retries previous Bluetooth connection upon disconnection | Must have |
| 1.4 | App should boot in android | Must have |
| 1.5 | App should transmit notification to device | Must have |
| 1.6 | Device should receive notification from app | Must have |
| 1.7 | Device should vibrate if notification dictates | Must have |
| 1.8 | App should initiate notification message manually | Should have |
| 1.9 | App should initiate notification message from local source (e.g. alarm) | Should have |
| 1.11 | App should initiate notification from remote source (database lookup) | Must have |
| 1.12 | App should be able to send notification to a remote user (database insertion) | Must have |
| 1.13 | The product should provide differentiation between sources of notification (intensity and/or duration of pulse) | Should have |
| 1.14 | Device should have a way to silence notification locally (button/motion) | Could have |
| 1.15 | Device should be able to display reason for message visually (RGB or display) | could have |

## Non-Functional

|  |  |  |
| --- | --- | --- |
| Requirement # | Requirement description | Category |
| 2.1 | Device must provide notification only to the user (discretion) |  |
| 2.1 | Device must provide long service life without user input |  |
| 2.3 | Device must have physical attributes to enable comfortable wearing/use |  |
| 2.4 | Device should provide usage without power input (charging) |  |
| 2.5 | The product must provide notifications in a timely manor (>10s) |  |
| 2.6 | The product should be of near disposable cost (>£10) |  |
| 2.7 | The device must work over a reasonable range between it and internet enabled device |  |
| 2.8 | The device should provide a widespread method to connect to an internet enabled device (Bluetooth) |  |