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| --- | --- | --- | --- | --- |
| Categories | Sub-category | Concept 1 (Transferring) | Concept 2 (Messaging/Calling) | Concept 3 (No 2nd Echo Dot) |
| Connection | Wifi | 10 | 10 | 10 |
| Bluetooth | 0 | 0 | 0 |
| Sound Notification | Buzzer | 10 | 2 | 9 |
| Music | 0 | 2 | 0 |
| Human voice | 0 | 6 | 1 |
| Data Storage | Cloud | 9 | 6 | 3 |
| SD card | 1 | 4 | 7 |
| Security | Log-in | 10 | 10 | 10 |
| Application | Website | 2 | 2 | 2 |
| Window App | 6 | 3 | 6 |
| Mobile App | 2 | 5 | 2 |
| Data Display Device | OLED | 10 | 0 | 2 |
| LCD | 0 | 10 | 3 |
| NONE | 0 | 0 | 5 |
| External Interface | Wristband | 10 | 10 | 10 |
| Monitor | 10 | 10 | 0 |
| Data Display | Digit number | 10 | 0 | 6 |
| Graphical | 0 | 10 | 4 |
|  | Total | 85 | 77 | 63 |

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| Categories | Option 1 | Option 2 | Option 3 |
| Microcontroller | ESP32 | ESP8266 | - |
| Heartbeat Sensor | Pulse sensor | MAX30100 | MAX30105 |
| Voice Assistant | Amazon Echo Dot | Google Home | - |
| Battery | Pin Li-Ion (Lithium-ion) | Pin Li-Po (Polymer- ion) |  |
| Development coding language (Microcontroller) | C programming | MicroPython |  |
| Development coding language (Database) | MySQL | Microsoft SQL server |  |
| Development coding language (Server +  GUI) | Java/JavaFX | C++ | C# |
| Display Monitor | OLED Display SPI connection | LCD |  |
| Mechanical system | Motor | Sevor |  |
| Microcontroller for Stationary | Arduino Uno R3 | ESP 32 |  |
| Power supply for Stationary | AC voltage (using cable connect with DC transformer) | DC voltage (using battery) |  |

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| Categories | Option 1 | Option 2 |
| Microcontroller | ESP32 | ESP8266 |
| Heartbeat Sensor | Pulse sensor (https://www.sparkfun.com/products/11574) | MAX30100 (https://www.robotistan.com/max30100-heart-rate-sensor) |
| Voice Assistant | Amazon Echo Dot | Google Home |
| Battery | Pin Li-Ion (Lithium-ion) | Pin Li-Po (Polymer- ion) |
| Development coding language (Microcontroller) | C programming | MiroPython |
| Development coding language (Database) | MySQL | Microsoft SQL server |
| Development coding language (Server +  GUI) | Java/JavaFX | C++ |
| Display Monitor | OLED Display SPI connection | LCD |
| Mechanical system | Motor | Sevor |
| Microcontroller for Stationary | Aduino Uno R3 | ESP 32 |
| Power supply for Stationary | AC voltage (using cable connect with DC transformer) | DC voltage (using battery) |