|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Component Name | Quantity | Approximate  price Per Piece/ 1 set | Total Price |
| 1. | ESP8266 WIFI Module | 4 | 400/-₹ | 1880/- ₹ |
| 2. | ESP32 WIFI module | 4 | 400/- ₹ | 1880/- ₹ |
| 2. | RFID Reader | 2-set (2-RFID-reader in each set) | 9500/-₹(1 Meter Range) | 19000/-₹ |
| 3. | LED (red,green,blue) | 4 set (3-LED in each set) | 120/-₹ | 240 /-₹ |
| 4. | Buzzer Module | 4 | 120/-₹ | 480/-₹ |
| 5. | RFID Cards | 250 pieces | 3000₹(12₹ /per piece) | 3000/-₹ |
| 6. | Protection Case | 4 | 800/-₹ | 2400/-₹ |
| 7. | SD Card Module | 4 | 200/-₹ | 800/-₹ |
| 8. | Arduino UNO R3 board | 4 | 1800/-₹ | 7200/-₹ |
| 9. | SD Card 32GB | 4 | 650 /-₹ | 3070/-₹ |
| 10. | Raspberry Pi-4B | 1 | 13890/-₹ | 13890/-₹ |
| 11. | Jumper Wire | 100 pieces | 500/-₹ | 500/- ₹ |
|  | Total Approx. Cost | | 31,380₹ | 53,860/-₹ |

Hardware Resource List

Software Resource List(only 1 required)

1st(option)= (**Recommended**)

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| --- | --- | --- | --- |
| No. | Name | Price | specification |
| 1 | Server with web hosting | 45600/-₹  (3800/-₹ per month) | memory : 8GB  CPUs(AMD) : 4  SSD(NVMe) : 160GB  Transfer : 5TB  Users handle cap. :1K to 1.2K |

2nd(Option)

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Name | Price | specification |
| 1 | Server with web hosting | 24240/-₹  (2020/-₹ per month) | memory : 2GB  CPUs(AMD) : 2  SSD(NVMe) : 80GB  Transfer : 4TB  User handle cap. :  400 to 500 |

System Overview

* Automatic attendance capture with wide range RFID Reader in real-time.
* Web Application with the different user accounts from students to faculties and non-teaching staff
* Android Application for improving user experience
* PWA (Progressive web app) (new technology for low resource high-performance app)
* All data will be available in application in mean & real-time
* Customized report and attendance- setup creating functionalities for faculties.