**FUNCTIONALITY REPORT**

**AUTOMATIC SMART CART  
(CARTIGO):**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No#** | **FUNCTIONALITIES** | **YES** | **NO** |
| **1** | **Hotspot Connectivity** | **✔** |  |
| **2** | **Add product in the database through web based application** | **✔** |  |
| **3** | **Delete product from database through web based application.** | **✔** |  |
| **4** | **Update product in the database through web based application.** | **✔** |  |
| **5** | **Search information of product through ID from the database through web based application** | **✔** |  |
| **6** | **Saved BILL ID and AMOUNT in the database in bills table** | **✔** |  |
| **7** | **Save bill in the database with PRODUCTS list** |  | **✔** |
| **8** | **Search Bill ID and the amount will be displayed on web based application** | **✔** |  |
| **9** | **Adding product in the Cart hardware** | **✔** |  |
| **10** | **Removing products from the Cart hardware.** | **✔** |  |
| **11** | **Displaying the Total Amount on the LCD** | **✔** |  |
| **12** | **Display the number of products Added in the LCD** | **✔** |  |
| **13** | **mode=+ for Adding products in cart** | **✔** |  |
| **14** | **mode=- for Removing products from cart** | **✔** |  |
| **15** | **When removing the products the price of products also reduces from the total amount displayed on LCD.** | **✔** |  |
| **16** | **Scan the product through RFID reader to Add** | **✔** |  |
| **17** | **Max products scan in bill>20** | **✔** |  |
| **18** | **Remove Button Function for Removing product.** | **✔** |  |
| **19** | **Display Bill in the Web Based Application** | **✔** |  |
| **20** | **Print Bill** | **✔** |  |
| **21** | **Press (Send) Button on Cart send the Bill to the Web Based Application.** | **✔** |  |
| **22** | **The Cart Hardware can be Refresh after use .** | **✔** |  |
| **23** | **Battery Backup(1day)** | **✔** |  |
| **24** | **Working with Multiple Counter** |  | **✔** |
| **25** | **Incorrect Entry of RFID Number for product is not Detected till products scanned** |  | **✔** |
| **26** | **Bill ID different for every Bill Generated** | **✔** |  |
| **27** | **Cart ID different for each trolley** | **✔** |  |
| **28** | **Web Based Application (GUI)** | **✔** |  |
| **29** | **Circuit Design(Box)** | **✔** |  |
| **30** | **Circuit(Hardware) Security** |  | **✔** |
| **31** | **Automatic Shopping Cart & Security access Alarm** | **✔** |  |
| **32** | **Automatic Shopping Cart is applicable for Small Supermarts** | **✔** |  |
| **33** | **Automatic Shopping Cart is not applicable for Big International Supermarts** |  | **✔** |

**Security alarm:(idea presented of security)**

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| --- | --- | --- | --- |
| **S.No#** | **FUNCTIONALITIES** | **YES** | **NO** |
| **1** | **Verification of bill(security) based on moralities (manually)** |  | **✔** |
| **2** | **Scan the RFID card for if your bill is verified to checkout** | **✔** |  |
| **3** | **Authorized access buzzer(2 time Low)** | **✔** |  |
| **4** | **Unauthorize access buzzer(3 time HIGH)** | **✔** |  |
| **5** | **Risk factor (Ideal Case)** | **✔** |  |
| **6** | **Risk Factor(Worst Case)** |  | **✔** |

**Group members;**

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**Signature; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**