**Software Project Development On**

**E-PLASTIC**

In Partial Fulfilment Of

Bachelor of Computer Application (BCA)

****

**Gujarat University (2020-21)**

(Third Year Bachelor of Computer Application)

**Project Created By**

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| **Acknowledgement** | | | |
|  |  | I would like to express my special thanks of gratitude to my faculty (Sejal Ma’am) as well as our principal (Prakash Sir)who gave me the golden opportunity to do this wonderful project on the topic (E-Plastic), which also helped me in doing a lot of Research and i came to know about so many new things I am really thankful to them. |  |
|  |  | I am are over helmed in all humbleness and gratefulness to acknowledge my depth to all those who have helped me to put these ideas, well above the level of simplicity and into something concrete. |  |
|  |  | I would like to express my special thanks of gratitude to my teacher as well as our principal who gave me the golden opportunity to do this wonderful project on the topic “E-Plastic" , which also helped me in doing a lot of Research and i came to know about so many new things. I am really thankful to them |  |
|  |  | Any attempt at any level can 't be satisfactorily completed without the support and guidance of MY guider and friends. |  |
|  |  | I would like to thank my guider who helped me a lot in gathering different information, collecting data and guiding me from time to time in making this project, despite of their busy schedules, they gave me different ideas in making this project unique. |  |
|  |  | Thanking you,  Ark Barot,  Nihir Shah,  Archit Trivedi  B.C.A. T.Y. (Sem 5) |  |
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| Abstract | | | |
|  |  | This Project is built for Customer, Plastic Collector, Recycle Company, Recycle Product selling in one portal. Here all are getting work and they all get earning according. |  |

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| 1. Introduction | | | |
|  |  | This project aims to promote identification and implementation of environmentally sound technologies (ESTs) for the elements of PC including collection, segregation, transportation, treatment, disposal, and recovery and recycle. PC covers all types of e-wastes in an integrative manner from all the waste sources including WEEE/E-waste from domestic/municipal and industrial sources. As a part of Online E-waste Collection System, is focusing on electronic waste (WEEE/ E-waste) management. This work will complement the work being done, globally and regionally, on WEEE/E-waste by secretariats of multilateral environmental agreements, in particular the Secretariat of the Basel Convention (SBC). |  |
|  |  | Online Plastic Collection System (PC) is used for the collection of the electronic waste material from the customer, local collector, so on. The customer can define the details about which type of waste is having. The customer can get the money by giving the waste material. Online E-waste Collection System is for deplorers and recycling it in the company |  |

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| 1. Project Information | | | |
| 2.1 |  | **Project Definition**: |  |
|  |  | This is to certify that below students of **Lokmanya College of Computer Application** are working on project title “**E-plastic Web-Site”** using Python with Django at our company under our guidance and supervision. |  |
| 2.2 |  | **Project Profile:** |  |
|  |  | Plastic collector can update User’s request. after updating request User can see their request. |  |
|  |  | User get the notification (by the mail) from the Plastic collector. |  |
|  |  | Plastic collector submits Plastic to the company. |  |
|  |  | Then recycle this plastic. |  |
|  |  | After recycle product will be sell online. |  |
| 2.3 |  | **Program definition:** |  |
|  |  | The User send the request for the collecting the Plastic to the Plastic collector |  |
|  |  | Plastic collector pays some money for the Plastic pr kg to the User. |  |
|  |  | User see the time slot and price list pr kg from Company side. |  |
|  |  | Recycling product will be selling online. customer will buy this product. |  |
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| 1. Company Details | | | |
| 3.1 |  | **Company’s Information:** |  |
|  |  | **Name**: TOPS Technologies Pvt. Ltd. |  |
|  |  | **E-mail ID**: [inquiry@tops-int.com](mailto:inquiry@tops-int.com) |  |
|  |  | **Website**: [www.tops-int.com](http://www.tops-int.com) |  |
|  |  | **Address**: 05, 3rd EYE -905 Samedh Complex,  Chimanlal Girdharlal Rd,  Ellisbridge, Ahmedabad,  Gujarat 380009, India |  |
|  |  | **Contact**: +91 9015909190  +91 9974755006 |  |
| 3.2 |  | **Company Profile:** |  |
|  |  | TOPS Technologies is one of the largest IT Training and Finishing Schools with expertise in ASP.Net Training, PHP Training, Java Training, iPhone Training, Android Training, Software Testing Training, SEO Training, Web Design Training. We started the training division to become a bridge between the skills required by the best IT companies require and the talent created by Engineering, BCA, MCA colleges. As an IT Finishing school, we are one of the largest and Best placement generators in the Software Development sector placing over 1000 students at various IT companies across Gujarat and India. As one of the largest Software Development company in Gujarat, we have also been accorded the Microsoft Silver Learning Partnership by Microsoft Corporation. |  |

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| 1. Existing System | | | |
|  |  | The existing system has one ways of plastic collection system. |  |
|  |  | The plastic collection system is offline which is done by the government. |  |
|  |  | The plastic is sent to the garbage factories for the deployment of the plastic. |  |
|  |  | The Environment pollution will reduce and the electronic plastic will recycle or deployed. |  |
|  |  | This technique could eliminate plastic disposal costs, reduce raw material costs and provide income from a salable garbage. |  |

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| 1. New System | | | |
| 5.1 |  | **Need for New System:** |  |
|  |  | The e –plastic system is online plastic collection website. |  |
|  |  | We will collect plastic from user which will be further recycled. |  |
|  |  | The plastic will be used in the making new product and company can use the recycling product for new product. |  |
|  |  | The goals of the system are:   * + To provide decided time and place service for the customer.   + To reuse plastic by recycling.   + To decrease the plastic material from household. |  |
| 5.2 |  | **Objective for the New System:** |  |
|  |  | E-plastic System will be recycling of the plastic material by using latest system for clients. |  |
|  |  | Help in the improvement of standards, terminology equipment’s methods and implementation practices in the field of Online E-plastic System. |  |
|  |  | Online E-plastic Collection System amongst clients for awareness and recycling of the plastic material by using latest system. |  |
|  |  | Online E-plastic System including policy, collection, transportation and treatment in a city/ geographical area. |  |
|  |  | Encourage and promote the development and progress of Online E-plastic System towards achieving in the field of computer sciences and technology for Theater applications both for recycling and deployment of electronic plastic. |  |

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| 1. **Tools and Technologies** | | | |
| 6.1 |  | **Hardware Requirements** |  |
|  | 6.1.1 | **Client Side:** |  |
|  |  | Windows 8 |  |
|  |  | RAM: 4GB |  |
|  |  | Hard Disk: 512GB |  |
|  |  | Processor: 2.0GHz |  |
|  |  |  |  |
|  | 6.1.2 | **Server Side:** |  |
|  |  | Windows 8 |  |
|  |  | RAM: 4GB |  |
|  |  | Hard Disk: 512GB |  |
|  |  | Processor: 2.0GHz |  |
|  |  |  |  |
| 6.2 |  | **Software Requirements** |  |
|  | 6.2.1 | **Client Side:** |  |
|  |  | Web Browsers: IE, IE8, Mozilla Firefox, Chrome, Opera |  |
|  |  | Operating Systems: Windows 8 and above |  |
|  |  |  |  |
|  | 6.2.2 | **Server Side:** |  |
|  |  | Web Server: IIS 7.5 |  |
|  |  | Framework: Django |  |
|  |  | Database Server: XAMPP |  |
|  |  | Web Browsers: IE, IE8, Mozilla Firefox, Chrome, Opera |  |
|  |  | Operating System: Windows 8 and above |  |

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| 1. Feasibility Study | | | |
|  |  | Whenever we design a new system, normally the management will ask for a feasibility report of the new system. The management wants to know the technicalities and cost involved in creation of new system. |  |
|  |  | **Following types are describe:**   * + Technical feasibility: - Technical feasibility involves Collection of E-waste Collection to establish the technical capability of the system being created to accomplish all requirements to the user. The system should be capable of handling the proposed volume of data and provide users and operating environment to increase their efficiency. For example, system should be capable of handling the proposed volume of data and provide users.   + Economic feasibility: - Economic feasibility involves E-waste Collection to establish the cost benefit analysis. Money spent on the system must be recorded in the form of benefit from the system. The benefits are of two types: |  |

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| 1. Targeted Users: | | | |
|  |  | **Company**   * + Company can manage profile.   + Company can manage garbage collector.   + Company can manage User.   + Company can manage category.   + Company can manage product.   + Company can manage order.   + Company can manage feedback.   + Company can manage payment details. |  |
|  |  | **Garbage collector**   * + Garbage collector can collect the garbage   + Garbage collector can view pending request.   + Garbage collector can pay money for garbage.   + Garbage collector can update the request.   + Garbage collector can submit garbage to company. |  |
|  |  | **Customer**   * + User can send request for garbage to garbage collector.   + User can cancel the request.   + User can view status of request.   + User can get money. Ø User can view category.   + User can view product. Ø User can buy product.   + User can add product to the add to cart.   + User can give payment.   + User can give feedback. |  |

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| 1. Unified Modelling Language (UML) | | | |
| 9.1 | | **Use Case Diagram:** |  |
|  | 9.1.1 | Admin |  |
|  |  |  |  |
|  | 9.1.2 | Recycling company |  |

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|  | 9.1.3 | Plastic Collector |  |
|  | 9.1.4 | Customer | X |

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| 9.2 |  | **Activity Diagram:** |  |
|  | 9.2.1 | Admin |  |
|  |  |  |  |
|  | 9.2.2 | Recycling Company |  |
|  | 9.2.3 | Plastic Collector |  |
|  | 9.2.4 | Customer |  |

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| 9.3 |  | **Continuity Diagram** |  |
|  | 9.3.1 | Login |  |
|  | 9.3.2 | Plastic Collector |  |

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|  | 9.3.3 | Registration |  |
|  | 9.3.4 | User |  |

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| 9.4 |  | **Class Diagram** |  |
|  | 9.4.1 |  |  |
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| 1. Data Dictionary | | |  |
| 10.1 |  | Recycling Company |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Recycling Company** | | **Primary Key** | C\_ID | | **Foreign Key** | FKuser(User) | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | C\_ID | Int | 10 | PK | It is used for store Company ID | | **2** | FKuser | Varchar | 10 | FK | It is used for store FKuser | | **3** | Firstname | Varchar | 10 | NOT NULL | It is used for store First Name | | **4** | Lastname | Varchar | 10 | NOT NULL | It is used for store Last Name | | **5** | Phone | Varchar | 12 | NOT NULL | It is used for store Phone number | | **6** | C\_pic | Imagepath | - | NOT NULL | It is used for store Company Path | | **7** | Is\_created | Datafield | - | NOT NULL | It is used for store data | |  |
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| 10.2 |  | Plastic Collector |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Plastic Collector** | | **Primary Key** | PC\_id | | **Foreign Key** | FKuser(User) | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | PC\_id | Int | 10 | PK | It is used for store PC\_id | | **2** | FKuser | Varchar | 10 | FK | It is used for store FKuser | | **3** | Firstname | Varchar | 10 | NOT NULL | It is used for store First Name | | **4** | Lastname | Varchar | 10 | NOT NULL | It is used for store Last Name | | **5** | Gender | Varchar | 6 | NOT NULL | It is used for store Gender | | **6** | Area | Varchar | 10 | NOT NULL | It is used for Area | | **7** | Phone | Varchar | 12 | NOT NULL | It is used for store Phone number | | **8** | Profile\_pic | Imagepath | - | NOT NULL | It is used for store Profile Path | | **9** | Address | Varchar | 100 | NOT NULL | It is used for store address | |  |
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| 10.3 |  | Customer |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Customer** | | **Primary Key** | MS\_id | | **Foreign Key** | User\_id | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | MS\_id | Int | 10 | PK | It is used for store MS\_id | | **2** | User\_id | Varchar | 10 | FK | It is used for store User\_id | | **3** | Firstname | Varchar | 10 | NOT NULL | It is used for store First Name | | **4** | Lastname | Varchar | 10 | NOT NULL | It is used for store Last Name | | **5** | Gender | Varchar | 6 | NOT NULL | It is used for store Gender | | **6** | Area | Varchar | 10 | NOT NULL | It is used for Area | | **7** | Phone | Varchar | 12 | NOT NULL | It is used for store Phone number | | **8** | Profile\_pic | Imagepath | - | NOT NULL | It is used for store Profile Path | | **9** | Is\_verified | Boolean | - | NOT NULL | It is used for store is\_verified | |  |
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| 10.4 |  | Plastic Collector |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Plastic Collector** | | **Primary Key** | GC\_id | | **Foreign Key** | FK\_user(User) | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | **PC\_id** | **Int** | **10** | **PK** | **It is used for store PC\_id** | | **2** | **FKuser** | **Varchar** | **10** | **FK** | **It is used for store FKuser** | | **3** | **Firstname** | **Varchar** | **10** | **NOT NULL** | **It is used for store First Name** | | **4** | **Lastname** | **Varchar** | **10** | **NOT NULL** | **It is used for store Last Name** | | **5** | **Gender** | **Varchar** | **6** | **NOT NULL** | **It is used for store Gender** | | **6** | **Area** | **Varchar** | **10** | **NOT NULL** | **It is used for Area** | | **7** | **Phone** | **Varchar** | **12** | **NOT NULL** | **It is used for store Phone number** | | **8** | **Profile\_pic** | **Imagepath** | **-** | **NOT NULL** | **It is used for store Profile Path** | | **9** | **Address** | **Varchar** | **100** | **NOT NULL** | **It is used for store address** | |  |

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| 10.5 |  | Add Garbage |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Add Plastic** | | **Primary Key** | AGC\_user | | **Foreign Key** | - | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | AGC\_user | Varchar | 10 | PK | It is used for store user name | | **2** | AGC\_fname | Varchar | 10 | NOT NULL | It is used for store First Name | | **3** | AGC\_lname | Varchar | 10 | NOT NULL | It is used for store Last Name | | **4** | AGC\_area | Varchar | 10 | NOT NULL | It is used for Area | | **5** | AGC\_category | Varchar | 10 | NOT NULL | It is used for Category | | **6** | AGC\_image | Imagepath | 6 | NOT NULL | It is used for store product Image Path | | **7** | Date | Datetimepath | - | NOT NULL | It is used for Date | |  |
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| 10.6 |  | Product |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Product** | | **Primary Key** | pro\_user | | **Foreign Key** | - | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | Pro\_user | Varchar | 10 | PK | It is used for store user name | | **2** | pro\_name | Varchar | 10 | NOT NULL | It is used for store Product Name | | **3** | Description | Varchar | 10 | NOT NULL | It is used for store Product Description | | **4** | Date | Datetimepath | - | NOT NULL | It is used for Date | | **5** | Price | Varchar | 10 | NOT NULL | It is used for Category | | **6** | Image | Imagepath | 6 | NOT NULL | It is used for store product Image Path | |  |
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| 10.7 |  | Cart Items |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Cart Item** | | **Primary Key** | cart\_user | | **Foreign Key** | user\_id , ms\_user | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | Cart\_user | Varchar | 10 | PK | It is used for store cart user name | | **2** | User\_id | Varchar | 10 | FK | It is used for store user name | | **3** | Ms\_user | Varchar | 10 | Fk | It is used for store customer name | | **2** | Price | Varchar | 10 | NOT NULL | It is used for store price | | **3** | Quantity | Varchar | 10 | NOT NULL | It is used for store total quantity | | **4** | Date\_added | Datetimepath | - | NOT NULL | It is used for Date | | **5** | Product | Varchar | 10 | NOT NULL | It is used for product | | **6** | Total | Varchar | 10 | NOT NULL | It is used for store total amount | | **7** | Subtotal | Varchar | 10 | NOT NULL | It is used for store sub total | |  |
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| 10.8 |  | Add Request |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Add Request** | | **Primary Key** | Req\_user | | **Foreign Key** | user\_id | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | Req\_user | Varchar | 10 | PK | It is used for User Name | | **2** | User\_id | Varchar | 10 | FK | It is used for user id | | **3** | Username | Varchar | 10 | NOT NULL | It is used for username | | **4** | Cat(category) | Varchar | 10 | NOT NULL | It is used for store category | | **5** | Status | Varchar | - | NOT NULL | It is used for status | | **6** | Date\_add | Datetimepath | 10 | NOT NULL | It is used for date | | **7** | Weight | Varchar | 10 | NOT NULL | It is used for store total amount | |  |
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| 10.9 |  | Feedback |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Feedback** | | **Primary Key** | Feed\_id | | **Foreign Key** | user\_id , ms\_user | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | Feed\_id | Varchar | 10 | PK | It is used to store id of feedback | | **2** | User\_id | Varchar | 10 | FK | It is used to store user id | | **3** | Ms\_user | Varchar | 10 | FK | It is used to store customer name | | **2** | Usernamefeedback | Varchar | 10 | NOT NULL | It is used for feedback by user | | **3** | Message | Varchar | 10 | NOT NULL | It is used for feedback message by user | |  |
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| 10.10 |  | Add Request |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Add Request** | | **Primary Key** | tran\_user | | **Foreign Key** | Made\_by | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | Tran\_user | Varchar | 10 | PK | It is used to store user name | | **2** | Made\_by | Varchar | 10 | FK | It is used to store | | **4** | Made\_on | DateTimeField | 10 | NOT NULL | It is used for the product made on date | | **5** | Amount | Varchar | 10 | NOT NULL | It is used for store total amount from cart | | **6** | Order\_id | Varchar | 10 | NOT NULL | It is used for order\_id | | **7** | Check sum | Varchar | 10 | NOT NULL | It is used for cross check the total sum with cart items | |  |
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| 10.11 |  | Foreign Key |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Foreign key** | | **Primary Key** | FK\_user | | **Foreign Key** |  | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | FK\_user | Varchar | 10 | PK | It is used to store Foreign keys | | **2** | Made\_by | Varchar | 10 | FK | It is used to store | | **3** | Made\_on | DateTimeField | 10 | NOT NULL | It is used to store date when the transaction was applied | | **4** | Order\_id | Varchar | 10 | NOT NULL | It is used to store Order Id | | **5** | Checksum | Varchar | 10 | NOT NULL | It is use to Check Sum | |  |
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| 10.12 |  | Payment Method |  |
|  |  | |  |  | | --- | --- | | **Table Name** | **Payment Method** | | **Primary Key** | Pay\_user | | **Foreign Key** |  | |  |
|  |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **No.** | **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** | | **1** | Pay\_user | Varchar | 10 | PK | It is used to store Payment of user | | **2** | Made\_by | Varchar | 10 | FK | It is used to store Customer ID | | **3** | PC\_ID | Varchar | 10 | FK | It is used to store Plastic Collector ID | | **4** | GC\_ID | Varchar | 10 | FK | It is used to store Garbage Collector ID | |  |
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| 1. Entity Relation Diagram (ERD) | | | |
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| 1. Conclusion | | | |
|  |  | E-Plastic is a web application and Mobile Application which is developed to recycle products collected from users. |  |
|  |  | This application retrieves the user’s information returning the date, day, and time for E-plastic collection. Users can then do online shopping for the recycled products. The user can also track the delivery of the ordered product. |  |
|  |  | Electronic and electrical equipment’s cannot be avoided in today’s world. So also is the case of waste electronic and electrical equipment. As long as this is a necessary evil, it has to be best managed to minimize its adverse impacts on environment. Electronic waste piles are growing, as is their pollution potential. Most of these problems have their source in the development and design of the products concerned. Using this type of system we can conclude that using the methodology of Reduce, Reuse and Recycle (3R) decrease the piles of electronic and electrical equipment, and make environment to be cleaned and healthy. |  |
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| 1. Salutation | | | |
|  |  | Thank You |  |