# Functional Requirement

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| ID | Title | Description | Rational | Dependencies |
| R1 | Sign UP | The users of the system should be able to sign up through sign up form. The user must provide the necessary information correctly | For login credentials necessary information are required | R2 |
| R2 | Login | Admin and users should be able to access the system by login in with the help of registered username and password | To authorize access in the system to registered users | R1 |
| R3 | Add Property | Admin must be able to add additional property for trash management category when a new property is feasible or it can be included according to necessity. Since only few types of trash are included. He should make necessary arrangement to provide required details about the property. | Addition of new available property for users. | N/A |
| R4 | Search Property for admin | The admin should be able to search and view property like sold and donated trash to manage trash record. | To give access authority to update, delete and manage records of client accordingly. | R3 |
| R5 | View Property Details | Admin and Users should be able to view the value and the types of trash in view property | To view the details of the trash where it is categorized and to know the value of that waste material | R3,R4,R5 |
| R6 | Update Property Detail | The information or value of the trash might be change or may be prioritized according to needs for recycling or other purposes. So if any changes are needed then admin must be able to update the property details | To facilitate the new updated category to be enabled so that it could be recycled when added as a new property type of trash | R3,R4 |
| R7 | Delete Property | Admin must be able to remove the unnecessary property. If it cease to exist or, if it is no longer in use | If some property type or trash are no longer used or are not available then it must be removed. | R3 |
| R8 | Scheduling | To facilitate the collection of trash on time | Users trash must be collected in-order to utilize the recycling process. So to retrieve trash scheduling is done and the client and trash collector will conclude the selling or donating process. | R9,R10 |
| R9 | Sell | Client should be able to sell the trash with its respective value | To provide the respective valued price of trash to the client | N/A |
| R10 | Donate | Client might be interested in donating trash rather than selling. | To facilitate the charity process as per the clients desire. | N/A |
| R11 | Record Detail | Admin should be able to view the client and trash collector details who have either donated or sold their trash to trash collector | To review and generate the data when needed | R9,R10 |

# Non-Functional Requirement

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| ID | Title | Description | Rational | Dependencies |
| 1 | Performance |  |  |  |
| 2 | Availability |  |  |  |
| 3 | Reliability |  |  |  |
| 4 | Security |  |  |  |
| 5 | Usability |  |  |  |
| 6 | Interoperability |  |  |  |
| 7 | Maintainability |  |  |  |
| 8 | Testability |  |  |  |
| 9 | Scalability |  |  |  |