**Functional and Nonfunctional Requirements**

The problem of waste accumulation is one of the biggest problems that any society may face. Therefore, in order to find an effective mechanism to solve this problem or even contribute to a large extent in solving it, **Clean&Green** project is the perfect project for that.

One of the basic things that you must pay attention to in order to succeed in any project are the requirements.

The aim of this paper is to explain the requirements that the programmer must follow in order to achieve access for this project (**Clean&Green**).

The requirements are separated into two parts:

🡪Functional Requirements.

🡪Non-Functional Requirements.

**Functional Requirements:**

* The system should allow the user to sing-up.
* The system should allow the user to sing-in.
* The system should verify that this account has already been registered or not.
* The system should allow the user to do any modifications to his personal information.
* The system should provide a menu to display the program’s sections.
* The system should allow the user to perform the search within its sections.
* The system should allow the user to make the sale through the store by using card.
* The system should allow the user to make a purchase through the store.
* The system shall give the admin the ability to Refresh store listings constantly.
* The system should allow the user to perform the search process for product.
* The system should provide the user to do any filtering in the search.
* The system should allow the user to add video posts.
* The system should allow the user to add written posts
* The system should allow the user to save the posts he wants.
* The system should allow the user to view the companies' information.
* The system should have the ability to decide which materials have the ability be recycled. (غير الصياغة)
* The system should be able to alert the user when the recycle time has finished.
* The system should have a section to display information about waste problems. (غير الصياغة) view
* The system should have a section to display information on how to treat the problem of waste accumulation. (غير الصياغة) view
* The system should have a section to display information on the benefits of recycling. (غير الصياغة) view
* The system should have a section to display information on the correct methods for the screening process. (غير الصياغة) view
* The system should have the ability to search for answers to the user via the internet.
* The system should have the ability to search for answers to the user from the information contained in the system.
* The system should implement advertisement, in order to be profitable.
* The system should support video playback.
* The system should have a rating option for posts.
* The system should provide a chat box.
* The system should allow the users to create a group within the chat box.
* Municipalities/ companies
* The system should save the conversations to ensure the rights of users. (Show previous)
* The system should prevent users from modifying others’ posts.
* The system should not allow users to delete others’ posts.
* The system should allow users to edit their posts.
* The system should allow users to delete their posts.
* The system should prevent users from modifying information that is from the origin of the system and present in it when it was created.
* The system should allow municipalities to modify waste dumping sites.
* The system must inform users of the laws to be followed when they start using this program.
* The system should include steps to be followed in the event of any violation of laws.
* The system should provide suggestions to the user about the best way to recycle the object.
* The system should allow the users to downloads the videos from the program.

**Non-Functional Requirements:**

* The system should send verification message to the user when he wants to register.
* The system should send verification message to the user when he wants to edit any personal information.
* The system should ask the user to write the password when he wants to edit any personal information.
* The system should allow the user to open the program in the language he wants and prefers.
* The system should be able to send notifications to the user for any news.
* The system should provide the user with the optimal answer to his question.
* Advertisements should be unintrusive for the user
* The system should allow users to delete conversations within no more than two minutes.
* The system should update the store every day.
* The system should be updated every three months.
* The system should provide the user protection from theft of his data by encrypting the data.
* The system should provide a simple graphical user interface so that the user can easily deal with it.
* The system should make sure that the sections follow each other in a logical order.
* The system should operate without internet access.
* The system should operate with internet access.
* The system must contain rules that must be followed by users.

The system should have the ability to distinguish any defect made by the user against these laws.

* The system should follow the steps related to violating laws in a systematic manner.

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* The system should have a built-in store for the sale of recycled material.
* The system should constantly update the information.