

India's First National Android App for Swachh Bharat Abhiyan (Clean India Mission)

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“A clean India is the best tribute we can pay to Bapu when we celebrate his 150th birth anniversary in 2019. I urge every one of you to devote at least hundred hours every year towards cleanliness. We can't let India remain unclean any longer”

- Hon'ble PM Narendra Modi

Background:

In response to the clarion call given by Hon'ble Prime Minister Narendra Modi for Swachh Bharat (Clean India), the nation is witnessing a wave of enthusiasts wielding the broom and taking up the cleanliness pledge. On 2nd Oct., 2014, Shri Modi launched this mission by flagging off a walkathon at Rajpath followed by sweeping streets at Valmiki Basti for a symbolic start. This mission has been extended to every nook and corner of the country. Various tasks and discussions relating to Swachh Bharat Abhiyan also feature on MyGov platform, in order to involve more and more people in the mission.

Concept Note:

Today, India has approximately 143 Million Smartphone Users who have access to Internet on 2G and 3G mobile platforms. Most of these Smartphones are equipped with at least 5 Mega Pixel Camera and using various Apps (e.g. Whatsapp etc.), people are sharing text, images and videos on the Internet.

Therefore, we want to create a Smartphone App to strengthen “Swachh Bharat Abhiyan” called “Swachh Bharat App (Clean India App)”. Any Indian can download this “Clean India App” on their Smartphone.

Now, when a person with this Clean India App, sees any intolerable waste/ garbage dump:

1. He/ she will open this App and take picture of the waste/ garbage dump
2. This picture will get uploaded on the Swachh Bharat National Server (Clean India National Server) along with its geo-location, time and date of upload
3. National Server will process the image and grade this waste/ garbage dump as Red, Yellow or Green. Red for Urgent Action, Yellow for taking Notice and Green to indicate Clean.
4. National Server hence places a “Tag” of respective colour on the Google Map (or on ISRO’s BHUWAN) at that geo-location.
5. Now consider that many persons have uploaded such information, all such Geo-Tags will be seen to anyone on Google Map (or on ISRO’s BHUWAN).

On the other hand, the Cleaning Agency also has this Clean India App on their Smartphone. So, the person who is responsible to clean that geo-location will also see such Red/Yellow Tags on his Smartphone. So:

- The cleaning employee hence reaches that Geo-location
- Cleans this place
- Takes the new picture on his Clean India App and uploads the new picture on the National Server
- National Server will process this new image and will once again grade this waste/ garbage dump as Red/ Yellow/ Green, depending upon the quality of cleaning.
- Once again, National Server updates respective “Tag” on the Google Map (or on ISRO’s BHUWAN) at that geo-location.

Therefore, with this Swachh Bharat App (Clean India App), we want to empower all Indian Citizens to report and evaluate the cleanliness of their own colony, city and the country. This App will ensure the liability of respective cleaning agency and they cannot deny from their responsibilities. Since, this information is available on the Internet, anyone, can see the current status of Clean India, 24x7.

With the support of the Government, we want to realize the dream of our Honourable PM Shri Narendra Modi and to help our countrymen live in a clean physical environment.

This Clean India App is fully scalable and can address to the needs of many other problem areas, such as:

- Reporting of Poor Sanitation and Overflowing Sewage System
- Reporting of Poor Condition of Potholes on the Road
- Reporting of Poor Cleanliness of Ganga Ghats and other river banks
- Reporting of Poor Cleaning of Railway Station Platforms and Trains
- Reporting of Damaged Bed sheets and poor hygiene in Hospitals

And the list may go on...

Commercial Viability

This Clean India App has commercial viability as well. When a Municipal Corporation outsources the cleanliness to a Private Company, the common man and the responsible employee from the municipality will upload the dirtiness of various locations, while the Private Company People will go and clean the location. The time when reporting of Dirtiness was reported and the time when it was cleaned, will also be available on the National Server.

So, by the end of the month, when the Private Company raises their Bill for Payments, this Cleaning Data will help both the parties to proceed for the payment of bill, genuinely. Such payment disbursement can also be done centrally, as now every Cleaning Agency can be registered on the Clean Indian National Server with respective tender contract for respective city. If respective report is found okay, the amount as committed can be automatically released by the Clean Indian National Server.

Basic Functioning of “Swachh Bharat App (Clean India App)”

- 1) Image object: Image, date, time, location (latitude, longitude) angle of vision, direction, user information (Phone number, Name, email).
- 2) Server (CINS: Clean India National Server)

User:

- Receive information from user.
- Check validity of image.
- Tag image (severity, open/closed, assigning to concerned cleaning authority)

Cleaning Authority:

- Receive information from cleaning authorities.
- Check validity of image.
- Approve / Disapprove, open/close, severity.
- Send Back acknowledgement to user.

- 3) Portal or App for cleaning authorities

- Reach the location.
- If validated then clean it.
- After cleaning take another image at the same.
- Location, direction, angle of vision and upload it.

