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Smart Swachh Bharat Mission

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Abstract:- Cleanliness is next to godliness ,a foresaid proverb explains about the importance of cleanliness In the above context Swachh bharat mission plays an important role in building of toilets in rural households. The system developed uses android app where the user who intends to get toilet constructed will register to the app and request for the toilet construction and user had to upload the photo of the constructed toilet and finally the government verifies the genuineness of the constructed toilet before releasing the fund

***Keywords*:-** *IoT, Android, Asp.net.*

I. INTRODUCTION

Swachh Bharat Mission has amplified way in to toilets and condensed open defecation in India and our country is close in achieving the target of worldwide sanitation coverage ,according to India's official sanitation statistics and newest statistics from Swachh Bharat mission portal suggests that 27 out of India's 36 states and UT are now open defecation free with 98.6% of Indian households having access to toilets. The father of our nation Mr. Mahatma Gandhi had at all times put emphasis on swachhta as swachhata lead to healthy and successful life . By keeping this in view ,the Indian government had determined to launch the swachh bharat mission on October 2,2014.The total assistance available for construction of an individual toilet is Rs.4000 from the central government and an amount of Rs.1333 at least from state government . It is expected that Swachh Bharat Mission would drastically improve the cleanliness of villages, undertake the problem of open defecation ,improve quality of life ,enhance the dignity and safety of women and children which leads to significant improvement in health parameters of the population

This project is a mobile application with which image of the constructed toilet will be taken by the owner of the house who intends to get the fund released from the government by uploading the image of the constructed toilet with its geographical location and using the photo tag containing the information of the owner of the house by using valid identity proof such as Aadhar card ,Government while transferring the fund to the owners account ,verifies all the parameters from the Aadhar card which was used by owner while uploading in mobile application.

II. RELATED WORK

- In efficient waste collection system by saurabh dugdhe,pooja shelar, sajuli jire and anuja apte discussed in their paper about probable dates for the gathering of wastes and real time bin status
- In automation of smart waste management using IOT to support swachh bharat abhiyan by Bharadwaj b, kumudha explained on how IOT module has been used to manage and supervise the waste by on how information will be sent to the exacting organization
- In use of ICT on village development plan by kartick Chandra sahu , ranendu ghosh explained about geo information concerning about the village boundary and current status of major land and as well as water resources
- In wireless dust bin monitoring and alert system using arduino by siva nagendra reddy, naresh naik explained as how dustbin can be packed to certain levels and module can be placed on dustbin by sending an watchful message to server node.

III. TECHNOLOGY USED

- *Android*

Android is a mobile operating system which was developed by Google and based on the modified version of Linux kernel ,other open source software designed for the touch screen mobile devices such as smart phones and tablets. Google has further increased development of android tv for televisions, wear OS for wrist watches. This android is written in either java, C, C++ and its initial release was on September 23 ,2008 and kernel type used is monolithic. Android is also often associated with the proprietary software called Google mobile services which is also developed by Google. The Google mobile services is comes with pre-installed in devices which includes Google chrome and Google search

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➢ *MySQL*

MySQL is a database system used on the web, essentially, a MySQL database allows us to generate a relational database organization on a web-server in order to store data or computerize the procedures. PHP acts as your queries, and forms are principally web pages with fields in them. MySQL is also open source in that its free and falls under the GNU General Public License. Interacting with a MySQL database is a little peculiar. When creating tables, we have to create them by using SQL Statements, or by using another open-source tool accessible online called PHPMyAdmin. PHP MyAdmin gives you an user-friendly interface that allows you to create tables and run queries by filling in a little bit of information and then having the tables created for us.

➢ *ASP.NET*

It is a software structure which had been planned, developed by Microsoft and the first version of .Net framework was 1.0 which was released in the year 2002. It is a virtual machine for compiling and executing programs written in different languages like C#, VB.Net etc. It is used to develop Form-based applications, Web-based applications, and Web services. There is a multiplicity of programming languages obtainable on the .Net platform, VB.Net and C# being the most common on. It had been used to build applications mandatory required for Windows, phone, web etc as it provides a lot of functionalities which also supports industry standards.

IV. PROPOSED SYSTEM

The management of the Swachh Bharat Mission was done manually. There are some problem that have arisen especially for the data retrieval of the informations of the beneficiaries for the allocation of fund and there could be revenue loss that could have arised due to corruptions that have emerged while transferring the fund to needy beneficiaries and this Smart Swachh Bharat Mission developed will be using the concept of direct benefit transfer for transferring the fund directly to the bank account

During this phase ,objectives and goals of the system were defined clearly that includes project scope .In the proposed system the beneficiaries who wants to avail the services of scheme has to first download the android application from the smart phone which has the basic features of camera ,the user has to first register by logging in with the email id as well as password and should requests for the fund for the constructed toilet by showing the map with the marker and geo-location at the location of the constructed toilet where no other toilet has to be constructed and failing upon this will be cancelled from the fund allotment as per the norms of the scheme and once the user logs in ,a unique Request_id will be automatically generated and a Registration_id is fetched from the email id which was used by the user while registering to the application .The geo-location must be in the range specified by the government and when once the project is approved , the image of the toilet will be taken at three different angles and once it is submitted ,it gets automatically stored in the cloud.

This proposed system provides Features such as:

- The revenue loss incurred in the previous system will be eliminated
- Getting the project approved details as a push notification to android phone
- Regular push notifications for reminding about the uploading of the photos to the app
- Since identity proof such as aadhar card used ,there is no provision for manipulation
- Funds are properly distributed for the implementation of the scheme due to the non-intervention of mediators in formulation of the schemes
- Its is more efficient than the previous system

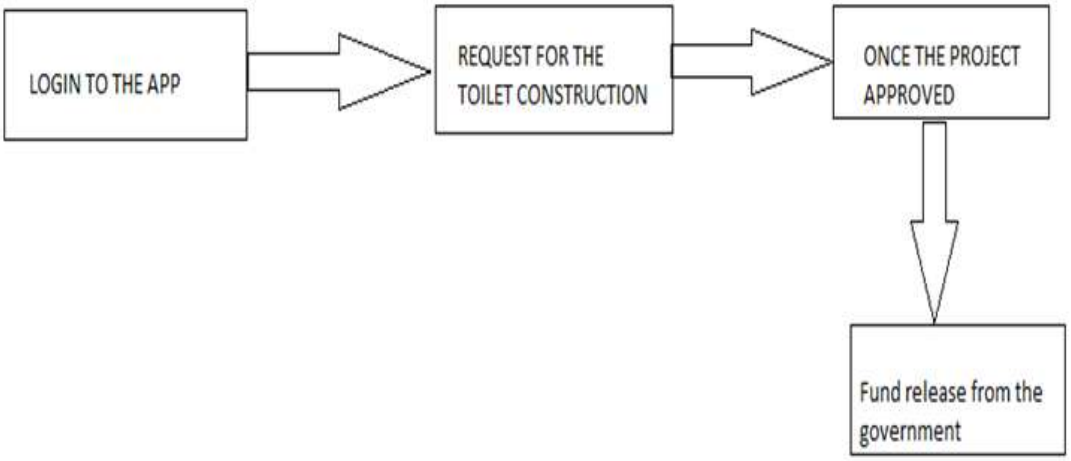

Fig 1:- Outline of the Project

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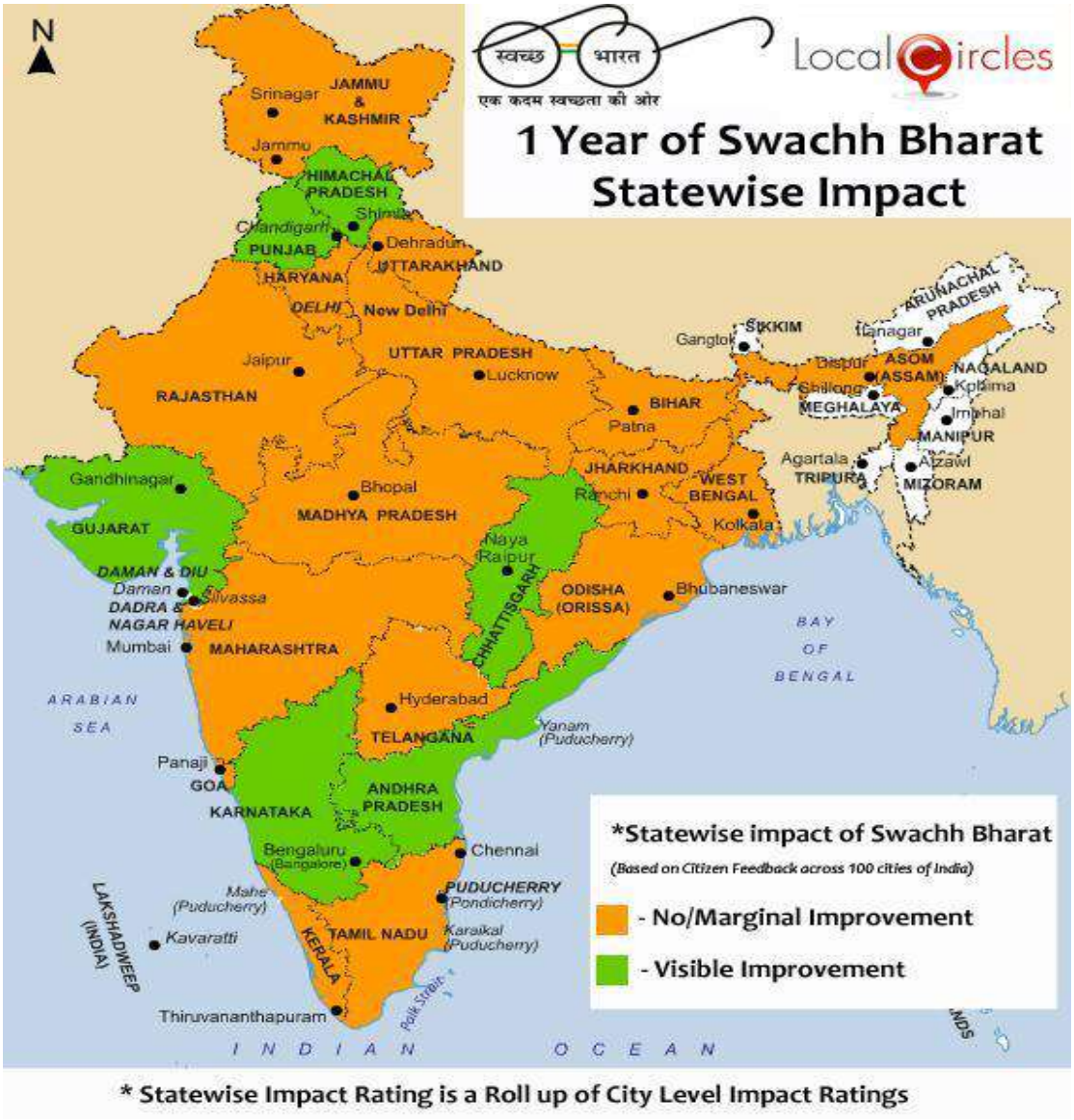

Fig 2:- Swachh Bharat Mission Implementation in Various States

V. CONCLUSION

Since the government uses the concept of Direct benefit transfer for transferring the claimed fund by the needy beneficiaries to their respective bank account linked through the aadhar card, which was provided by the user while uploading the image of the constructed toilet to the web portal. Using this system, the government can use smart way through which revenue loss that could have incurred by previous manual system could be reduced.

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