Web-Driven System for a Clean City by the Public Reviews

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Abstract - **India being developing country, in order to develop & get recognition globally still its lacking in many areas like rural & infrastructure development, stable economic growth, cleanliness & eradication of poverty & corruption. Many measurements have been taken to account such issues. Prime minster initiated Swatch Bharat Mission is one of such measurements. In order to help the citizens in their grievances, here is a design of android application which covers all areas where any cleanness or attention of public workers required for solving the problems observed. This application also helps in solving the corruption. Corruption includes dishonesty, exploitation, bribery, fraud, crime, extortion, jobbery, pollution etc. To reduce corruption and provide awareness in public, this is a cross platform application, where common man can give the details of cleanness to be done or grievances to be addressed.**

Keywords - **Swatch Bharat, cleanness**

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I. INTRODUCTION

In India there is no direct communication between the government and public in an efficient way for solving the problems i.e. for getting a problem solved in our place we have to bribe the officials and get them solved in two months which can be solved actually in one month of time. In order to overcome this problem previously National Informatics Centre has launched a site through which public can post the petitions or complaints in the site and get them solved in a specified time and can also know the status of the complaint or petition he has lodged at any time. If a person wants to complaint about any cleaning or water related issues, people need to visit concerned department. There may be possibility that they do not get a proper response from the concerned department or officers. And also after lodging complaint, tracking of this complaint is again tedious and needs repeated follow-up. In some cases, complaint itself is removed from the departments and there may be chances of adverse affects on a complainer. In such cases, complainer never wishes to come forward to complain. Electricity is one of the important and limited facilities available wasting of this may create problems in future. If any such incidents of wastage are observed, it is the responsibility of a common man to inform the concerned department. It is wisely said that saving of one unit electricity is equivalent to generation of two units of electricity. Water is one of the nature gift given to us, so proper usage of water is very important. We have to intimate concerned department whenever leakage of water pipelines & wastage of water observed. Following are the some of the issues covered in this paper.

- Cleanliness
- Street Light issues
- Water Leakage
- Wastage
- Corruption /Bribery in Concerned department.

If any garbage's, water leakages, street light problems are observed by common people will not know proper channel or proper person to whom they have to intimate. We are designing an application, which helps people to intimate the concerned department on the spot by taking photograph. Thus caring our natural resources & developing fresh air clean city. When common people face any corruption, they will not know to whom the complaints to be given. At that time, they can use our application to bring it into notice of concerned officers.

II.LITERATURE SURVEY

Literature survey is a prerequisite for any paper and it helps developing new concepts for implementing of the work. To carry out the paper work in a phased manner it is necessary to conduct literature survey. A paper requires a good insight about the basic concepts and understanding to nourish these requirements references have been made to many textbooks.

User Manual Swatch Bharat Mission (Mobile Application) Ministry of Drinking Water and Sanitation.

The Ministry of Drinking Water & Sanitation, Government of India, is the nodal Ministry for monitoring progress under the Swatch Bharat Mission, at the central level. The **mSBM** [1] mobile App has been developed by the Ministry in technical collaboration with NIC. Using this App, user can upload the photographs of beneficiaries receiving toilet facilities in their homes under this Mission, using a Smartphone. While capturing the photograph, latitude and longitude of the location as well as date – time stamp is recorded automatically and gets uploaded on the central server of the Mission which is housed in the National Data Centre.One can register for using the **mSBM** App through registration form which is available on the website http://sbm.gov.in by logging into the system. At present this facility has been provided to state government officials, as a tool for reporting progress of Swatch Bharat Mission activities, to the central Ministry.

CITY FIRST Application

The district Administration with the help of information and communication technology has launched an android app CITYFIRST [2]. With the help of CITYFIRST app Citizen can help to keep district clean and garbage free. This free app, CITYFIRST can be downloaded on your android phone from https://play.google.com.

SWATCH MAP FOR SWATCH BHARAT

Swatch Map is a crowd sourced tracking tool which aims to map all the garbage dumps, dirty sites across the country and track them with color coding on a Google Map (Red - Dirty site, Green- Clean site)[3]. A user can tap the red button to report dirty site around and the green button when it gets clean.Data will be sorted and compiled against zip code, locality, city and state and Swatch Map App will share the data across municipal bodies, local communities, NGOs, Corporate and individual volunteer around for site adoption, regular checks and cleanness drive.This application is in line with Swatch Bharat campaign and envisions clean Indian in 2019[4]. Swatch Map App will also be used to develop innovative waste management solution models, better utilization of resources, efficient garbage pickups.

III.PROPOSED SYSTEM

To clean our city we are providing an app, by using which we can take a snap and details will be updated to the concerned departments with respected location details which help to the departments to clean and manage city properly.
The main objectives of the app be used by any common man and government employees of different rank. The main areas covering in the proposed application are as follows.

- Management of streetlight.
- Clean and healthy city.
- Corruption free nation.
- Proper management of water resources.
- Complaints with respect to public related issues are as follows

1) When we see any corruption or garbage or any issue with municipal or with government we can lodge the complaint. It will be registered in the server and an automated complaint number is generated. And the complaint is registered as pending, can be viewed by concerned department.
2) If the concerned department does not give any solution it will be forwarded to next higher officer or department. If the higher officer is also not given the solution then the complaint will be forwarded to the next office. Once the problem is solved, department will send the notification to citizen. If complained person feels the problem is solved then he/she can change the status to solve. If electricity or water leakages are found, this information can be updated directly to the departments with location details.
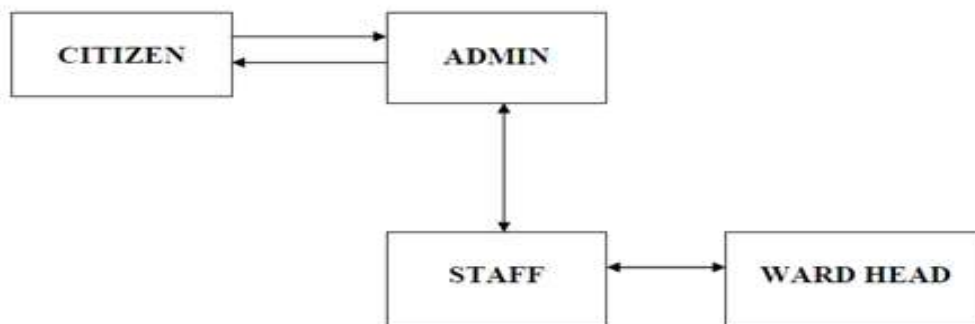The block diagram of proposed system is shown in Figure.1

Figure.1. Block Diagram of Proposed System

IV .DETAILED DESIGN

During detailed design the internal logic of each of the modules specified in the system design is decided.   In system the focus is on identifying the modules, whereas during detailed design the focus is on designing the logic for each of modules. In other words, in system design the attention is on what components are needed while in detailed design how the   components can be implemented in the software. During this phase future details of the data structure and algorithm design of each of the module is usually specified in high level description language, which is independent of the target language in which software will eventually implemented. Thus design methodology this systematic approach for creating design by application of a set techniques and guideline. The following modules are designed.

User Module: The citizen or the user login to the application by the username and password using login database. the citizen or the user login to the application by the username and password using login database. The citizen is going to register his/her complaint and this complaint is sent to the complaint holder called Admin. Here the citizen can check his/her complaint status. The citizen can also provide feedback about the complaint. The user can also able to check the public facilities that are provided by logging in to his/her account.

Ward Head Module: Ward head is a employee of concern department he receive all his assigned work from   the staff.
Step 1: The ward head will login using login database.
Step 2: He will check the complaints assigned to him by the staff.
Step 3: The ward head get the SMS from staff as he assigned work to him.

Admin Module: Admin will look after all the registered complaints and forward to the respective staff.
Step 1: The admin login to the system using the login database.
Step 2: The admin is going to check the complaints which are registered by the citizen or the user.
Step 3: Admin will check the user details using complaint id.
Step 4: Admin will forward the complaints to staff.
Step 5: He will check the status of both user and the staff and also the feedback details of the user.
Step 6: The admin also has the authority to add department staff details.

Staff Module: Staff receives all the assigned complaints to him from the admin. He will forward those complaints to the respective ward head.

V .TECHNOLOGY USED FOR IMPLEMENTATION

Using the following technology the above modules are implemented.
Development Tools
        The Android SDK includes a variety of custom tools that help develop mobile applications on the Android platform. The most important of these are the Android Emulator and the Android Development Tools plug-in for Eclipse, but the SDK also includes a variety of other tools for debugging, packaging, and installing are applications on the emulator.

●**Android Emulator -**A virtual mobile device that runs on computer use the emulator to design, debug, and test applications in an actual Android run-time environment.

●**Android Development Tools Plug-in for the Eclipse IDE-**The ADT plug-in adds powerful extensions to the Eclipse integrated environment, creating and debugging are Android applications easier and faster. If Eclipse is used, the ADTplug-in gives an incredible boost in developing Android applications.

●**Android Debug Bridge (ADB)-**The ADB tool lets install applications .apk files on an emulator or device and access the emulator or device from a command line. This is also used to link a standard debugger to application code running on an Android emulator or device.

●**Activity Creator-**A script that generates builds files that can use to compile our Android applications. If we are developing on Eclipse with the ADT plug-in, we won't need to use this.

WEB
        PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP originally stood for Personal Home Page, but it now stands for Hypertext Preprocessor. But PHP is not meant to run in desktop as desktop application. The main objective is to provide a way for developing desktop GUI applications using web technologies such as PHP, HTML, JavaScript. It embeds a web browser, a multithreaded web server and a PHP interpreter. All embedded into a single application. The analysis states that including this feature would solve the major issue for the PHP developers and make easy and fast development. PHP is very easy to learn and easy to develop web applications. Due to its simplicity it has huge number of users. The PHP interpreter only executes PHP code within its delimiters. Anything outside its delimiters is not processed by PHP, although non-PHP text is still subject to control structures described in PHP code. The most common delimiters are <?php to open and ?> to close PHP sections.

VI .EXPERIMENTAL RESULTS

The implementation of the paper results in the following pages as shown in Figure 2 and Figure.3.

Screen shot 1: Login Page

Screen shot 2: Login Failed
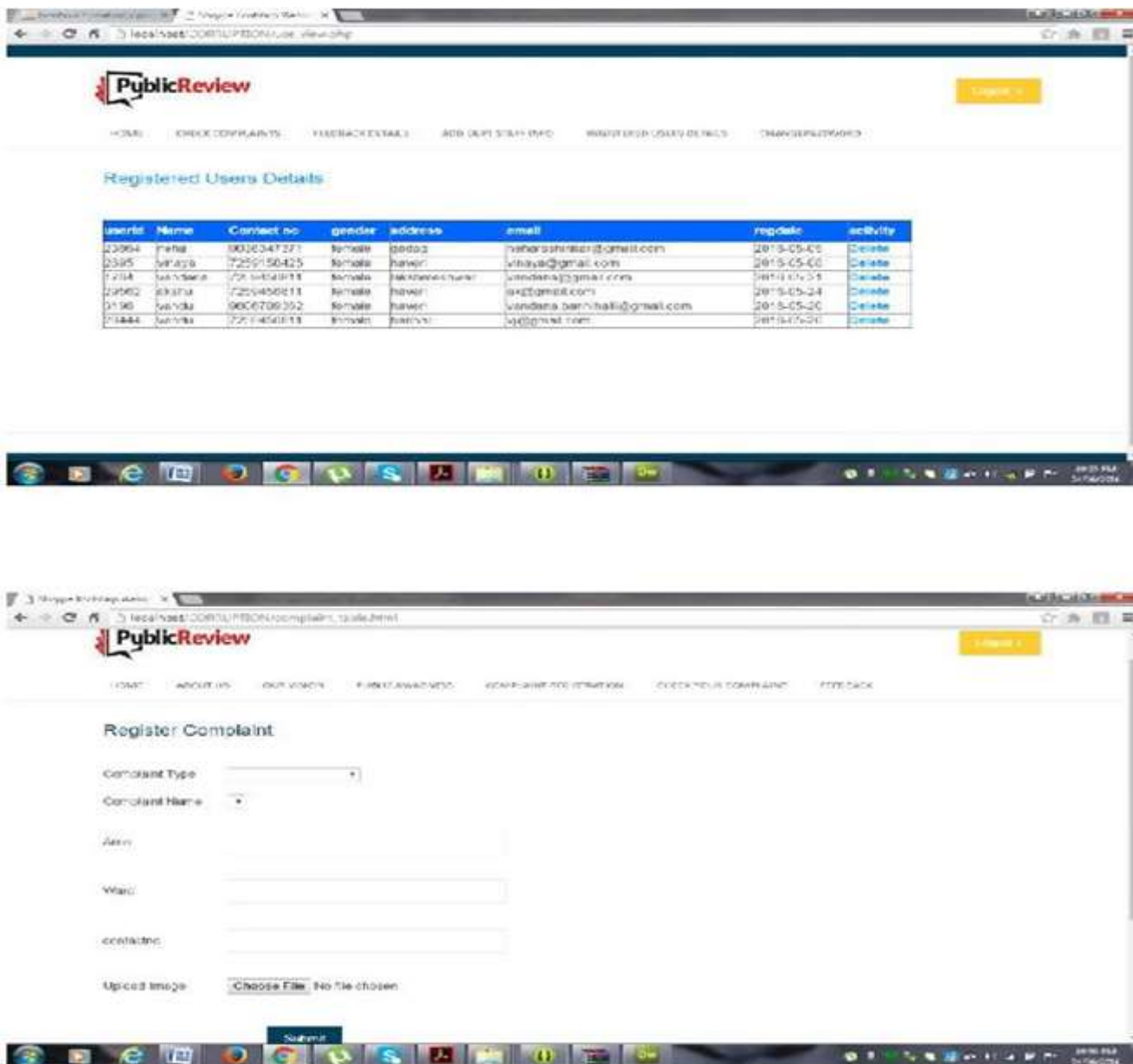

Figure.2. Login Page and Login failed Page

Figure.3.Registered User Details and Register Complaint Page

CONCLUSION

To provide the solutions for clean and healthy city the app is designed by using android application, with this any common man can capture the images or text details to the respective departments which helps to the department to know about it and take actions. If the response of the concerned officers is not good & the issues rose are not attended at the proper time, which can be brought into the notice of higher officers. And also if any corruption is observed, same can be intimated through the application. So that the mission of the country to keep the cities clean can be effectively achieved with more concern.

REFERENCES

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[4] https://play.google.com/store/apps/details?id=com.swachhmap