



# DIGITAL SOCIETY – A MOBILE APPLICATION

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**Abstract**— This Project primarily aims on solving the municipal issues faced by every citizen in our city in their day to day's life. For the above constraint, this app *Digital Society* which helps every single user to bring out the issues (Examples-Dirty Roads, Street Lights Malfunction, Litter to be cleaned and drainage malfunction) and post them on this app and get the attention of the municipal head of their locality so that they get it solved as soon as possible. You might have taken efforts manually to repair the damaged roads, bad street lights, stray dog menace etc. The citizens of the respected municipalities are not to be blamed because of the negligence of the government officials who are in charge of solving the above issues. We as college students have come with up an interactive app to solve the problems in our localities which we overcome in our day to day life

## I. INTRODUCTION

Virudhunagar has never been clean or fixed in every aspect regarding municipal issues. So to get that solved within days and with the least amount of work put in to get it solved, This App "Digital Society" would be a helping hand. You may ask us what if the municipal officer never logs in to the app and is very negligent about the issues. The whole city is coming to know about this issue when you post it on our App and how reluctant people are in fixing those. So at least keeping that in mind officers would be responsible for once and do their job for what they are being paid for. There is facebook to highlight these issues then why do we need this website? Facebook is more of informal posts and people just don't take posts seriously they just like it and move on. But here this App is dedicated only for dealing with issues and fixing them on time. That is what Digital Society is all about.

## II. RELATED WORK

As of now there is no existing system as such, we are the first of its kind. But the major drawback of the current system which is being handled by the government is negligence by the municipal board and procrastination in solving them. It takes nearly months to get our roads laid or our street lights fixed where the habitants are given a phone number which is hardly picked up by any.

This App acts as a middle man between the municipal board and the habitants of the respective municipality. It is somewhat similar to that of the notice board where every single municipal issue comes under surveillance. So that users can post their municipal issues in an easier accessible way. This App would help citizens to be aware of the unsolved issues in their respective municipalities and would act as a catalyst in getting them solved.

Back-end is managed by a cloud API called Firebase. Firebase is a mobile and web application platform with tools and infrastructure designed to help developers build high-quality apps. Firebase is made up of complementary features that developers can mix-and-match to fit their needs. The team is based in San Francisco and Mountain View, California. The company was founded in 2011 by Andrew Lee and James Tamplin. Firebase's initial product was a real time database, which provides an API that allows developers to store and sync data across multiple clients. Over time, it has expanded its product line to become a full suite for app development. The company was acquired by Google in October 2014 and a significant number of new features were featured in May 2016 at Google I/O.



Firebase Cloud Messaging formerly known as Google Cloud Messaging (GCM), Firebase Cloud Messaging (FCM) is a cross-platform solution for messages and notifications for Android, IOS and web applications, which currently can be used at no cost.

Firebase Auth is a service that can authenticate users using only client-side code. It supports social login providers Facebook, GitHub, Twitter and Google. Additionally, it includes a user management system whereby developers can enable user authentication with email and password login stored with Firebase.

Firebase provides a real time database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud. The company provides client libraries that enable integration with Android, IOS, JavaScript, Java, ObjectiveC, swift and No de.js applications. The database is also accessible through a REST API and bindings for several JavaScript frameworks such as AngularJS, React, Ember.js and Backbone.js. The REST API uses the Server-Sent Events protocol, which is an API for creating HTTP connections for receiving push notifications from a server. Developers using the real time database can secure their data by using the company's server-side-enforced security rules.

Admin logs in with an exclusive username and password. Admin can access and resolve the complaints based on the post and can change the status of complaints.

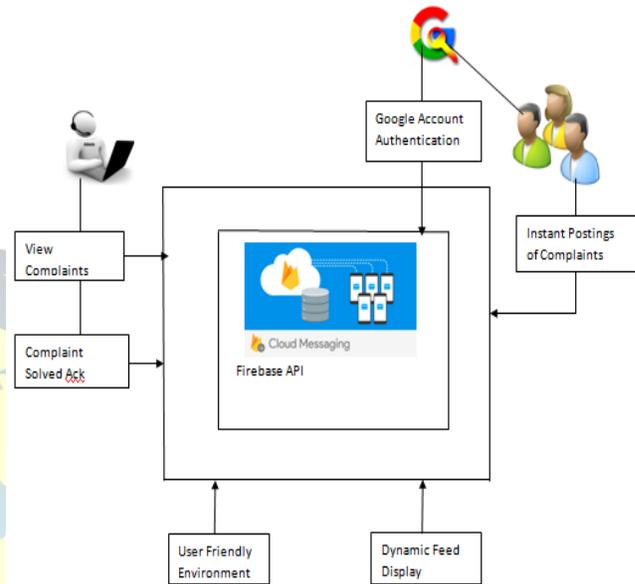


Figure 1. Design of the Proposed System

### III. PROPOSED METHODOLOGY

Input design is the bridge between user and information system. It specifies the manner in which data enters the system for processing it can ensure the reliability of the system and produce reports from accurate data or it may results in output of error information.

Output from the computer system is rewired primary to communicate the results of processing to the users. They also used to provide a permanent copy of these results for later consultation/verification. The main points on designing an output are deciding the media, designing layout and report to be printed. The outputs are designed from the system, are imple to read and interpret.

User logs in to the App with Google Authentication and instantly posts a complaint briefing about the exact location. User can feel user-friendly environment with dynamic feed display.

### IV. RESULT AND CONCLUSION

The current system which is being handled by the government is negligence by the municipal board and procrastination in solving them. It takes nearly months to get our roads laid or our street lights fixed where the habitants are given a phone number which is hardly picked up by any.

So to get that solved within days and with the least amount of work put in to get it solved, This App "Digital Society" would be a helping hand.

### V. REFERENCES

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