# PCMC water 24*7

Rhutika Patil , Ambika Birajdar, Saurabh Patil, Prof.Neeta karhadkar

Pcets nutan Maharashtra institute of engineering and technology, talegaon dabhade ,410507

***Abstract:*** — Android is an open and free operating system based on Linux, which is mainly used for mobile terminals, such as smart phones and panel computer. It is developed by Open Handset Alliance composed of more than 30 technology companies and mobile phone companies. Android tries to allow users experience the best service quality, and allow developers get a more open level for more convenient software developing. Thus mobile applications with more convenient functions can be developed via Android. This paper firstly presents the architecture of Android platform, including the classes and methods in developing. Then we takes audio/video file procurement as an example to introduce the Android program design and development, including classes application, program design, development and analysis.

Water is one of the most important commodities which man has exploited than any other resource for sustenance of life . Most of the water on this planet is stored in oceans and ice caps which is difficult to be recovered for our diverse need . The total amount of water on surface of earth is $3.5* 10^{20}$ gallons of which is 97 % is found in sea water while fresh water is only 37 million $km^3$ . Of this 0.8% occurs in polar ice water while percolates in ground is called 'Ground Water ' and it emerges on surface of earth as liver or lake . These are the calculations of amount of water or water sources available for humans . But even though we aren't able to use this whole water as there is factor of pollution also . The common sources of water pollutions can range from purely natural to several man-made sources like discharge of domestic wastes , industrial wastes(e.g. waste due to sugar factory , Dairy Industry , pulp and paper industry , Textile industry , petroleum Refining , fertilizers , Metal Plating Industry , tanneries , Distilleries , pharmaceuticals , rubber industry , coal washeries) , agriculture wastes etc .

Inspite of all these things we are wasting water heavily . The aim of these application is to aware the people about water wastage and to give them information about their water meter number , water timings , pressure and to raise query regrading their water supply digitally using the platform of this application . So that they can use the water in efficient way without wasting it.

***Keywords****: Agriculture; Android Application, Pimpri-Chinchwad Municipal Corporation, Water etc.*

## I. INTRODUCTION

Recently, agriculture is the fundamental source of food industry. It is one of the oldest and most important economic activities which is being practiced in the world wide since thousands of years. Its development has taken over the period of many years with the emergence of new technology, equipment, techniques of farming and domestication. Huge advancement and growth can be seen in this sector with the time period. This sector, not

only witnessed the enormous growth but also gave rise to many other sectors with significant progress. Majority of the people are being involved in this occupation as it is the basic need of human beings' survival. More than 50% of the land in the world has been devoted to agriculture. Agriculture sector accounts for 14% of Gross Domestic Product (GDP) of the Indian economy. About 70% of the population of India lives in rural areas and majority of them depend upon agriculture as their primary source of income. Agriculture not only helps people to survive but keeps economy on-going. It plays vital role in the economic development of India.Government of India has shown concern about the improvement of cultivator's knowledge of the soil, improvement of the fertility of the soil, irrigation facilities, fertilizer utilization, cattle-manure utilization, precise pesticides usage and grazing in forest area. Thus, productivity has to be increased with the increase in population.

In agriculture planning to obtain maximum crop yield with restricted area of land is the largest task in an agro-based country like India. Yield rate of the crop can be increased with the help of indicators by investigating crop related problems. Crop selection will be more accurate and beneficial with minimum loss, whether unfavourable condition occurs. Maximum crop yield can be obtained in favourable growing condition. Improving production rate of crop can be an important topic for research for the agro-meteorologists, for the development ofeconomic growth of the country. The two main factors responsible for the yield rate of the crop is, first one is quality of seeds which can be improved by genetic development using hybridization technology and second one is the selection of crop based on the favourable and unfavourable conditions. The two techniques: statistical and machine learning both these techniques models. Many researchers had been tried to get an efficient and accurate model for crop yielding prediction, soil classification, crop classification, weather predictions, crop disease pre-diction classification of crops.

Crop disease prediction is the art of predicting crop yields and production before the harvest actually takes place, typically a couple of months in advance. Crop forecasting relies on computer programs that describe the plant environment interactions in quantitative terms. Data Mining is a process of extracting hidden information from a database and transforms it into an understandable structure for further use. It is the computational process of discovering patterns in large data sets involving methods at the intersection of artificial intelligence, machine learning, statistics, and database systems. The ultimate goal of data mining is prediction - and predictive data mining is the most common type of data mining and one that has the most direct business applications. Throughout the years, many algorithms were created to extract knowledge from large sets of data. There are several different methodologies to approach this problem: classification, association rule, clustering, etc. Here we will focus on classification methodology. Classification techniques are designed for classifying unknown samples using information provided by a set of classified samples.

## II. LITERATURE SURVEY

This app allows users to photograph water wasters, such as leaky sprinklers, defective pipes, and faulty irrigation systems, and instantly GPS the address and problem to the Water Conservation Department for action. Launched by the City of San Diego, the app directs water waste complaints to the department, who after receiving the report, notifies the person responsible for the leak and provides him or her with information about San Diego's water restrictions. The Waste No Water reports issues in real-time, and allows users to check complaint status and schedule a free water survey for their home or business.

Dropout's website poses a good question: How do you conserve 20% if you don't know how much water you use now? Learn how much water you're using and set benchmarks for conserving with this new web and mobile app that tracks water usage in real time and sends a usage warning to your device or smart phone if you're nearing overuse. The app connects to local utility companies and water districts to help users track water consumption. In addition to the daily tracking feature, the app sends users alerts on rebates and other preventative water-waste actions. App downloaders can also take advantage of the utility poke, which locates your water district and contacts them requesting user data.

This "app" is a little more simple than others you may use, but it gets the job done. A straightforward calendar allowing users to input a few specs gives a weekly schedule for the maximum amount of water plants need each month of the year. Taking into account that everyone's landscape is different, the calculator evaluates soil type, landscape area, and watering systems to return the correct amount of water to use for your backyard

Leap Fitness has a bunch of fitness apps on Google Play. One of them is a water reminder app. This is another app that does everything we imagine you would need in an app like this one. It tracks your water intake, reminds you to drink more water, and you can see your water drinking history. This one also has sync support for Google Fit, Samsung Health, and account creation through Google. It also has backup and restore options from the cloud. It uses Material Design and it's easy to use. Like Hydro, we can't find anything really wrong with it and all of the features work well. The premium version goes for $2.99 as an in-app purchase.

Water Time is a quirky water reminder app with an adorable little mascot. It does the basics for sure. You can track how much water you drink every day and get reminders to drink water if you slack. It shows you how much you need to drink over the course of a day and actually warns you to stop if you drink too much. This one also tracks coffee and tea intake as well and we liked that extra tracking feature. It doesn't track your daily, weekly, or monthly stats very well at the time of this writing (October 21, 2018). However, some developer feedback to a Google Play reviews promises that feature in a future update. That update should add a much needed boost to an otherwise perfectly pleasant application.

## III. Proposed System

We implemented all the algorithms in DART and compiled using Android Studio IDE. All the experiments were run on windows 10 machine with an Intel core i3 processor and 8Gbmemory. As AOL data set is stored in Json files, Dart program is written to extract and clean that data and to store it in MySQL database, which is then further used for experiments.
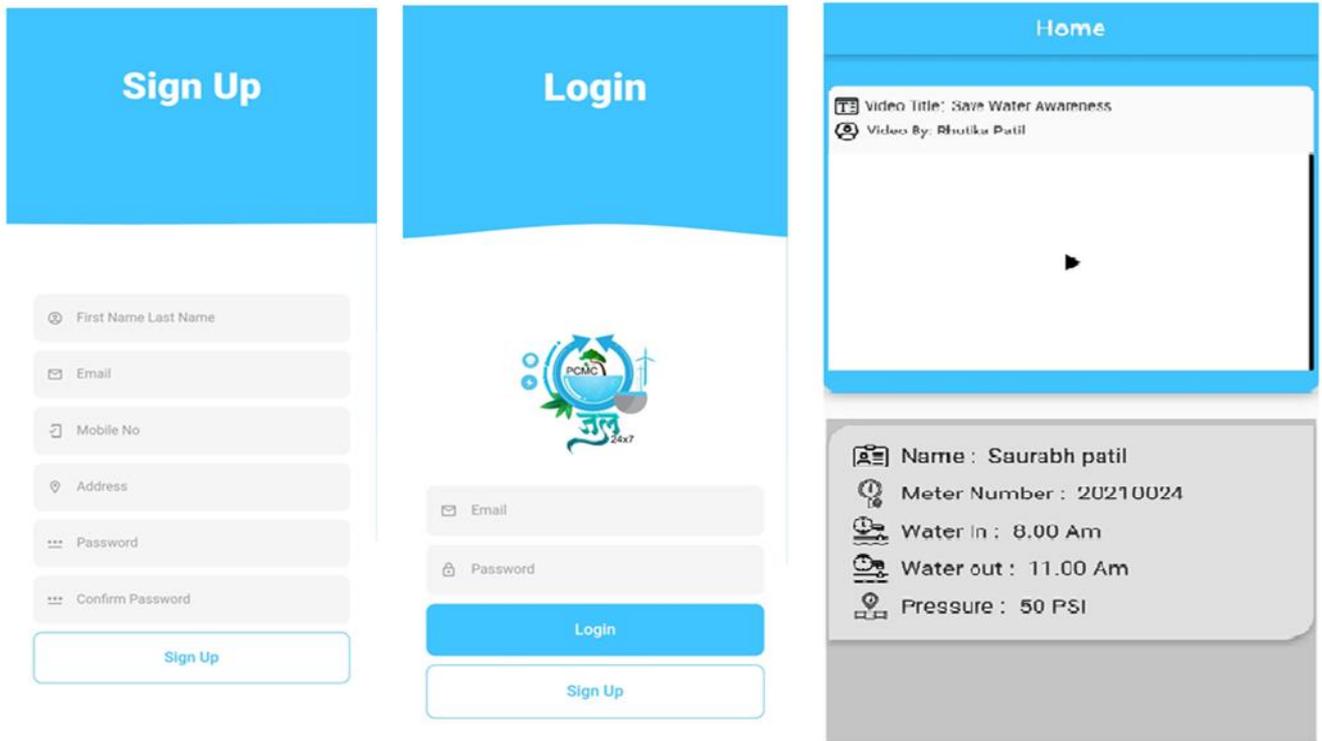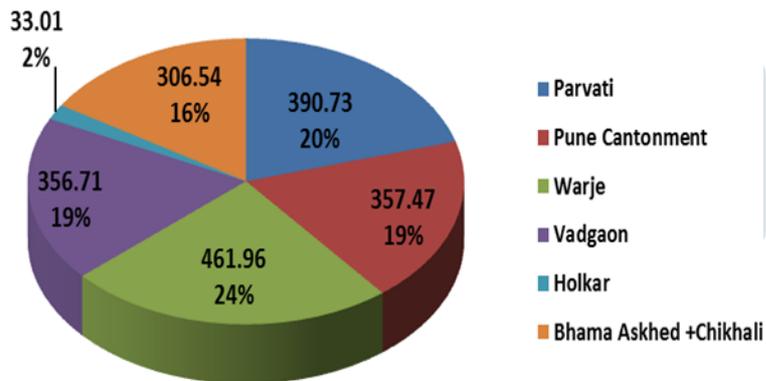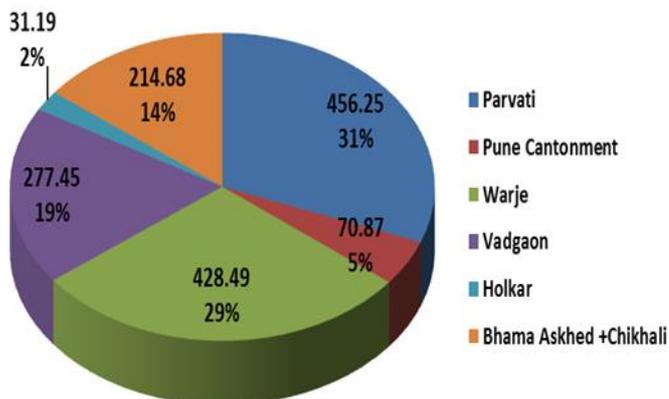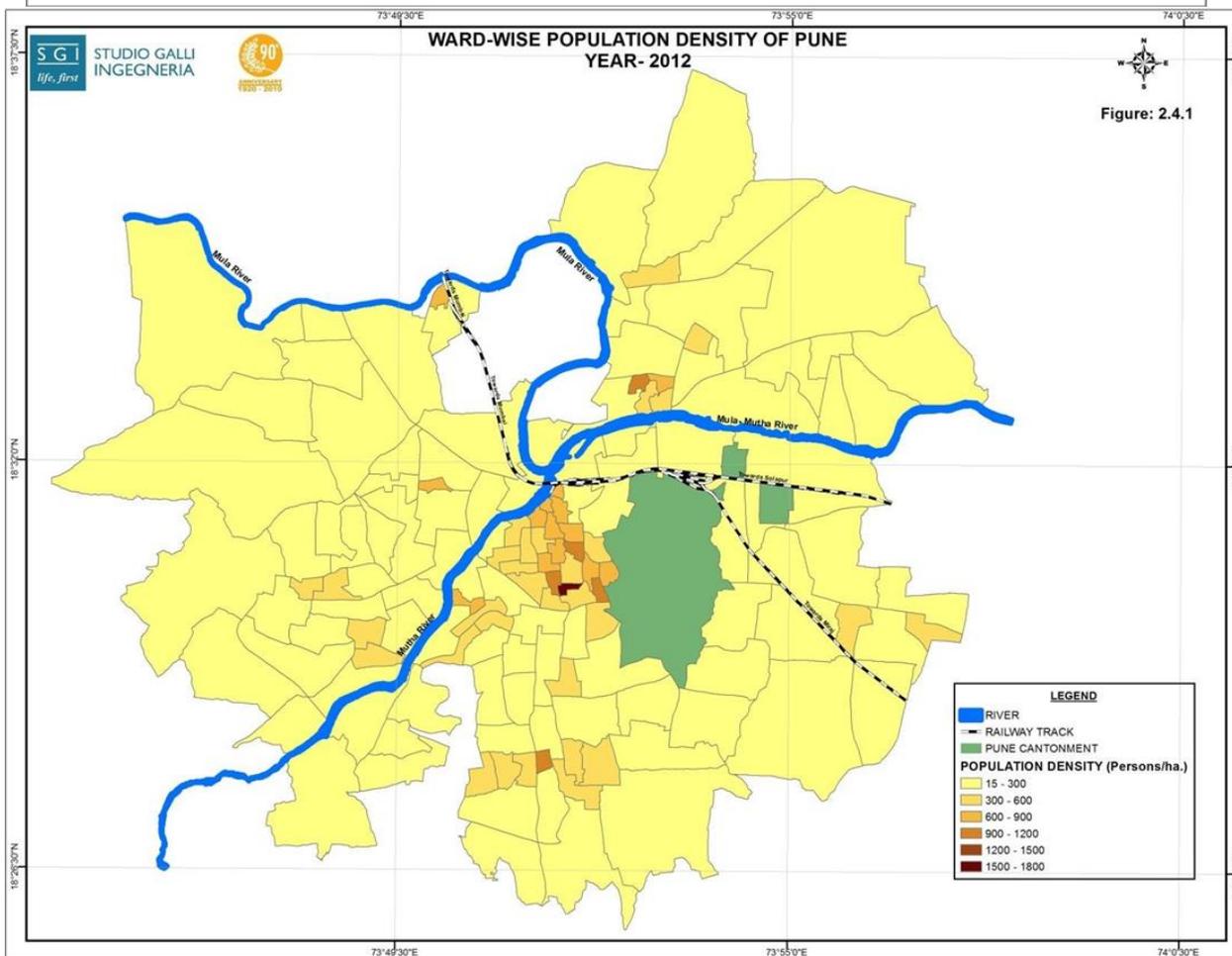
## IV. Results



**Figure1.1: User Registration Login and Home Page**

POPULATION PROJECTIONS

| YEAR | 2012 | 2017 | 2022 | 2032 | 2042 | 2047 |
|---|---|---|---|---|---|---|
| POPULATION PROJECTIONS | 3115433 | 3918763 | 4430320 | 5771754 | 6939529 | 7375348 |



WARD-WISE POPULATION DENSITY OF PUNE
YEAR- 2012

Figure: 2.4.1

LEGEND
RIVER
RAILWAY TRACK
PUNE CANTONMENT
POPULATION DENSITY (Persons/ha.)
15 - 300
300 - 600
600 - 900
900 - 1200
1200 - 1500
1500 - 1800
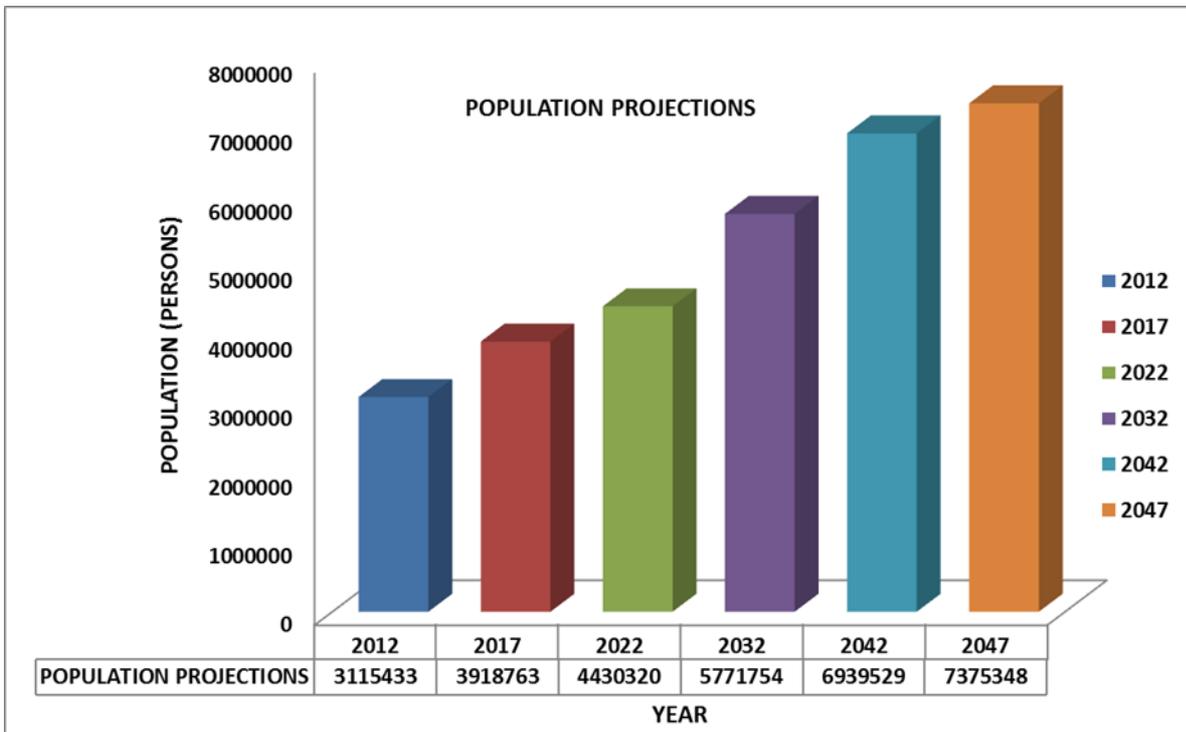
## V. CONCLUSION

In This work we proposed a new app for a user end under the Pimpri-Chinchwad Municipal Corporation. Our proposed approach is to make a friendly app for user in this app they can use this app in their day today life. it is as useful as other apps . our app accuracy is 90%.we can classify user on the basis of their meter no and sector in PCMC n future work we try to make more application in this water 24*7 app like we are planning to add payment option location of the user sector wise Because of this app In addition to this we are thinking to reduce the communication gap between the municipal corporation and civilians , so we planned to have online query raising feature This app is easy to use and any civilian download from the play store so it will be beneficial

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