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City Management

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***Abstract*: There is concept called city management which is now more trending technology. Based on the "digital city", "smart city" is widely used in daily livelihood, environmental protection, public security, city services and other fields. In this section, we mainly focus on challenges faced by people regarding daily concerns like water wastage, carcass (dead animal), solid waste like wise. Water wastage is main concern in this generation like if we see around ourselves, we get to see a lot of water wastage. We are putting forward the main content of systems as well as the importance and difficulty of the construction of "smart city". Solid waste management is also one of the challenging problem for the cities' authorities in developing countries mainly due to the increasing generation of waste, the lack of understanding that affect the different stages of waste management and linkages necessary to enable the entire handling system functioning. We analyse the literature on the work done in publications from 2005 to 2011, related to waste management in developing countries, it showed that few articles give appropriate information a lot of arguments have been put forward regarding the need for a major change in water resources management. Increasing awareness of the impacts of climate change has led to the insight that water management must be become more flexible in order to deal with uncertainties. This paper encourages for a paradigm shift through the process of development and execution of integrated and adjustable water management approaches.**

***Keywords*: cloud computing, salesforce, hypothesis testing, chi square test, arcGIS.**

1. Introduction

In the developed countries we get to see smart city concept but if we see the stats most of the citizens of developing and under developed countries still not much familiar with it and its necessity in today's world. As the matter-of-fact Smart City doesn't have any standard definition in theory which is accepted by world-wide researchers and organization. There are many people who explained Smart City concept and proposed different kinds of definitions from different points of view such as technical, social, political, governmental etc.

Solid waste management is the one thing just about every city government provides for its residents. While service levels, environmental impacts and costs vary dramatically, solid waste management is arguably the most important municipal service and serves as a prerequisite for other municipal action. As the world tending toward the modern culture, the amount of municipal solid waste is one of the most important by-products of an urban lifestyle. This solid waste is growing even faster than the rate of urbanization Recent scenario studies on water management were mainly 'what-if' assessments in one or two future situations. Currently if we see outwards we can't predict what the future will look like but It would get more complex and dynamic. It involves some general trends and unexpected events in water as well as social system. These two systems interact with the society responds to events and the state of the water system changes.

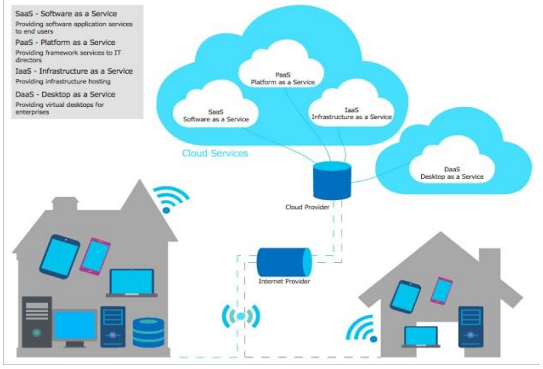

Fig. 1. Cloud basic structure

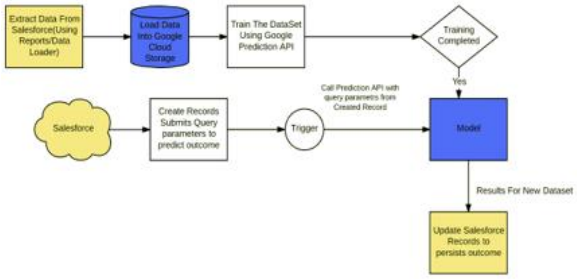

Fig. 2. States of salesforce

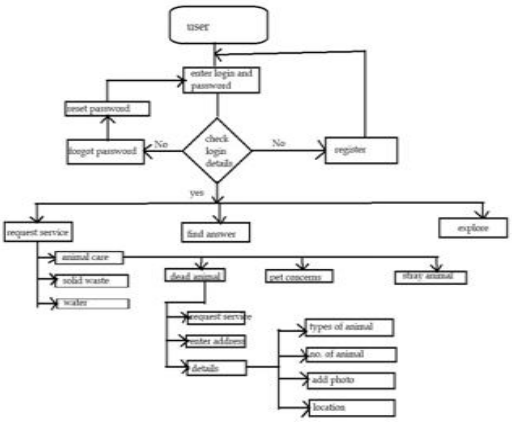

Fig. 3. Activity diagram

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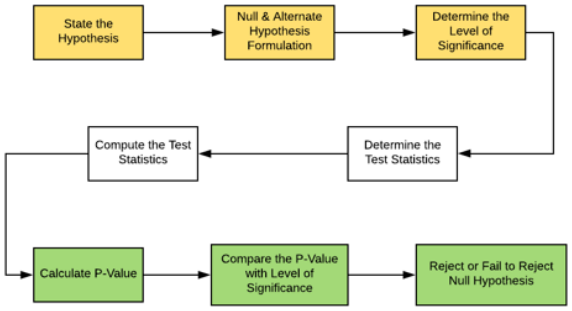

Fig. 4. Hypothesis testing workflow

2. Methodology

Customer Service website and mobile app provide an improved customer experience by offering more ways to easily submit and track your service requests. Our goal is to make government more accessible and life a little easier for our residents, businesses and visitors.

In this project we are using salesforce cloud as a domain.

What exactly Salesforce does?

Salesforce is the world's #1 customer relationship management (CRM) platform. It helps in marketing, sales and many more fields so if we are using such a cloud structure we can keep our customers happy everywhere. Salesforce architecture contains a series of layers situated on the top of each other so it is called as multilayer architecture.

What is cloud computing?

In general, if we wanted to store the data then we do it on computers hard drive but in the cloud computing scenario. We are storing the data on cloud and we can access that with the help of internet.

Cloud computing transforms IT infrastructure into a utility. One of the biggest advantages of cloud computing is that we don't want to carry our storage device everywhere because we can access the data on cloud everywhere. cloud computing uses computing resources without installing and maintaining them on-premises.

Cloud computing provides different services over the internet. These services are classified into mainly three types- a) infrastructure as a service b) platform as a service c) software as a service. The cloud can be private or public. Public cloud sells service anyone on the internet.

We are forming various departments wherein we will mainly focus on water management, solid waste management, animal care.

- *Departments*

❖ *Water management*

➢ General: Water

General water service questions.

➢ Water Conservation

In India we can treat approximately 37% of total water wastage on daily basis. If we are using smart city concept then we can reduce percentage of water wastage generating regularly and also further we can reuse that water to reduce the dependency on fresh water. Individuals and organizations can also establish wastewater processes in their buildings at a varying scale on the basis of their respective volumes.

❖ **Animal Care**

- Contact Front Street Shelter
  Questions about adoptions, spay/neuter resources, found animals, licensing and barking.
- Dead Animal
  Report a dead animal in the public right of way.
- General: Animal Control
  General Animal Control Questions
- Pet Complaint or Concerns
  Report concerns with an owned animal.
- Stray or Loose Animal
  Report an injured, sick, or aggressive stray animal.

Our aim behind this work is to provide the secure, fast, reliable and transparent city Management system. Cloud computing is highly secure and recent technology without the existence of a trusted third party.

Hypothesis testing:

Hypothesis testing is a statistical method that is used in making statistical decisions using experimental data. Hypothesis Testing is basically an assumption that we make about the population parameter

While providing such a smart system we also need some conclusion on basis of user data so here in some of other part we are also doing the analysis part so that it will become more convenient for the user.

On the other half part, we are doing the analysis part of the data which is generated from our project.

We are using some techniques for analysis and on basis of that we are generating some conclusion.

As we are familiar with python libraries, we are using the different libraries like matplotlib, states models etc.

So, in this task we will focusing the data wrangling techniques for understanding some hidden pattern in data and will also do some visualization of the major complaint's types.

3. Conclusion

It's an advance city that consists of more convenient and friendly methods. It is developed using some modern technology to achieve maximum performance and also for reducing the cost and resources consumption. This will engage more effectively with the users.

The Smart City agenda mainly focuses on improvising the citizens' quality of life, strengthening and diversifying the economy while prioritizing environmental sustainability through adoption of smart solutions.

From some concept of machine learning like hypothesis testing we have some conclusion. In which we are concluded that complaints are closed in the span of 150 to 300 hours complaints types are dependent on location type etc.

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