DIGITAL NAGPUR AS SMART CITY JAVA BASED PROJECT

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Abstract:

Day by day problems are increasing to manage these problems DIGITAL NAGPUR project will help the common person. This application is works as guide for everyone. The main purpose of this project is to help the tourist and other visitors of the city by providing information about hotels, transportation facility, shopping malls, café shop, college etc. DIGITAL NAGPUR provides quality and services to the user (people are using this app).

Using this application, the details of city can be accessed from anywhere at any time. Searching everything on google is takes too much time so using DIGITAL NAGPUR project user can get everything in one place and they can save their time. Our project also

provides services like emergency numbers (police, ambulance, women's safety, fire brigade) and complaints regarding water, electricity, street lights and sewer. The user can send their complaint by filling form.

Keywords: -

Java, firebase(database), SOS(System-of-System)

I. INTRODUCTION: -

Digital Nagpur is a software application used to store the details of the city. Digital words refer to the intense use of internet and tools. Our new generation is full of mobility where they get everything on internet. The Digital Nagpur java project serves the visitor as a guide of the city. Providing platform for public where all information and services are available. A Digital Nagpur that is being transformed or re-oriented through digital technology. Here main role is of society and their citizen. Citizens will easily know about any new thing that's comes in our city. Smarter can be achieved using information and communication technology. This information communication technology helps to collect and analyze large amount of data in several sources. This data is used to develop application and systems that will change people lives. Its changes people's life's by saving time and gives services to peoples, using financial, material. If we look forward to increases smartness it engaged in complex relationship which includes integration and interaction with other system towards providing new functionality. This improves the services of city and takes it to different level. Information communication makes people independent with new sources and This project is beneficial for everyone. Smart cities are leverage technology to several people build around users. Everyday a number of peoples are coming to all the cities for their education and for jobs. Initially all the things are new to visitors, the don't know anything about new cities. The Digital Nagpur application can be used anywhere using internet service and all details of the city can be accessed. The main purpose of this paper is to present how city can be interact with different system by giving new life to its citizen which helps to makes everyone's life better and giving popularity to mobile devices. Mobility is growing peoples by giving and taking information. Uses of internet is also increasing for enquiry. Peoples browse web pages but for everything searching on different different webpages it takes more time. So Digital Nagpur Project will helpful in such kind of situation.

II. LITERATURE SURVEY: -

- Thinking Smart cities as System-of-Systems. In this Papers Authors Used different systems for different work. Each system handles different flow of work. Here all systems are independent for their work. System of system arranged together to provide functionalities They can take their own decision. Each system has their own objective. The systems are independently developed, operated and managed. But there are some challenges arises in terms of their design and operation. When developing a smart city, it targeted some of this challenge.
  It allows supply secure future planning. here main problems are securing and sharing information among various system and the system likes transportation, agencies, management, business, stack holder's, education. Author of this paper are Everton Cavalcante, Nélio Cacho, Federico Lopes, Thais Batista.
- Artificial intelligence techniques for smart city application. Development in AI and ML is significantly advancing in smart cities. For smart cities needs smart Infrastructure to analyse, collect, and communicate structural data and

gather all the needs for smart city.ML is used for smarter features of monitoring. Now AI/ML is a important part of smart cities to give smart functionality to city and citizens. Using AI/ML for making city smarter as a response it's come up with network of smart things like sensors, cameras, surveillance and visualization of collected data. In this papers author used artificial Intelligence and machine Learning Languages. As there is satellite tracker and GPS usage, they used AI/ML. Author of this papers is Henrieke Fritz, Daniel Lucky. Al/ML algorithms for smart monitoring

III. PROPOSED WORK: -

1.Brute-force Search Algorithm:

Brute-force search is simple algorithm to implement and it will always show solution if there is any solution exits.it is lengthy process so this algorithm is easily applied to simple and small problems or when there are problem-specific simplest solution that can be used to reduce the set of candidate solutions to a minimum size. The method is also used when the easiest implementation is more important than speed. Brute Force Algorithm checks or search for all search is satisfying the condition or not. If there are no search available so it will return related value or display no search is available. It is the simple technique that most programmer used but increases both space and time complexity

c ← first(P)

while c ≠ Λ do

if valid (P, c) then

output (P, c)

c ← next (P, c)

end while

2.String Search Algorithm: -

String search algorithm is a string-matching algorithm this algorithm tries to find the place where the user search will be found within larger strings.it uses encoding of a string and this encoding affected the search. there is another way that is variable width encoding but it is slower to find Nth character. Here encoding is used to avoid false matches.

IV. OBJECTIVE: -

Our main objective behind this project is to provide various information in one place. To make everything easy for new traveler's Feedback mechanism for improve functionality Gives all facility to user as per need This application overcome requirement of tourist guide and this is the complete package of all objective of Nagpur city. To save money of people when they come to new city and somewhere people make them fool by robbing money by giving wrong information. involves a large number of stakeholders (local authorities, citizens, technology companies and academics) each having their own vision of what a city should be.

Fig1. Components of our project

CONCLUSION: -

Now markets need new business models and way of working in easy and quickly manner as technologies is increases. In today's generation use of mobile is increased, day by day new technologies is invented as thought of this our DIGITAL NAPGUR project will also help people in

their daily busy life and it takes our city to new platform.

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