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Illegal Building Construction Detection System Abhishek Kondewar
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ABSTRACTThe problem of illegal construction has hindered the economy of India today. The detection of such illegal construction

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has become very important in order to

benefit the society. In this project, we try to generate two 3D models: one from the plan uploaded by the user and second from the data uploaded by the government agent. To make the work of the government authority easy, we provide him with the two 3D models and their dimensions, which help him to make accurate comparison and decision. This project will help the government to take action against the illegal buildings with appropriate proofs.
Keywords
- Illegal building,3D view, agent verification.I. INTRODUCTION

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The enabling role of the Information and Communication technology (ICT) in the delivery of services to the public and government sector has gained acceptance. As a result, a revolution in terms of governance is taking place all over. E-Governance

undertakes greater position in the framework

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of management of today's governmental structures to achieve rapid economic growth and improved quality of life[1]. The technology and the methods used in E-Governance project provide a road map for efficient delivery of services at the door step. In today's time, the development of any country depends on

propositions of Governance and also their diffusion.

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Development of any country can be judged by the scope of E-Governance in that country. It has ushered in transparency in the governing process; saving of time due

to the provision of services through the single window; reduction in corruption, convenience, and empowerment[]. There are many challenges which are creating problems for the

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Indian government to run e-governance. In this project, we try to explore the usefulness of e-governance for

detecting the illegalness of the building. One of the sector in India which is filled with corruption is the Construction line. Here the illegal land for eg. agricultural land is bribe Land showed to be a non-agricultural land, on which construction of the building or house becomes easy. There are certain rules to be followed while constructing a building and a number

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of authorities are in charge of

accepting the proposal for the plan of construction[6]. Using the blueprint along with the government agent's verification we try to create 3D models which will help the government authority for detecting the illegalness of the building. II. LITERATURE SURVEYOne of the sector in India that is filled with corruption is the Construction line.

Here illegal land i.e. non-agricultural land is bribed and showed to be a agricultural land, on which constructing a building or house becomes easy

[12]. There are certain rules to be followed while constructing a building and numbers of authorities are in charge for accepting the proposal for the plan of construction[1]. Using the RS and GIS it becomes to get live images of the building that need to be monitored for being illegal or not[2]. The paper also provide a construction of urban database that holds all documents regarding land registration, permissions and rules to be considered while constructing the building. YangLina , ChiTianHe, PengLing, SunXu has described the Illegal Construction Detection System using live streaming of building images from physical location using RS and GIS[2]. It also creates the tabular representation of the images that we get from the GIS and helps in recognizing the type of illegal constructionII

I. Contents of Illegal BuildingDiffe

rent types of illegal buildingsGenerally speaking, there are six types of illegal building

as following[9], 1) violate plan type, the building that gets no permission of any plans, or goes beyond the scope of plan permission; 2) illegal land occupation type, the building that has not obtained state-owned land access, or in violation of the land administrative law; 3) improper construction type, the building that has not obtained construction license, or constructed outside the license; 4) construction without permission type, including accessorial house and the building whose textures is changed with out permission; 5) temporary building that is not demolished beyond the approved period of time for their uses; 6) other illegal types[4].In this project we are focusing on detection of illegal buildings based on a violation of plan i.e. either the plan is not approved or the construction goes beyond the sanctioned plan.B

. Data of Illegal building:With the help of generation of 3D module following are the types of data generate d in the system.Building Blueprint

The user signups on the website using his credentials. The user uploads the blueprint of the building which he wants to verify. This blueprint will be saved in the database.Government agent database

A government agent is allotted for

the onsite visit of the building. He/she verifies the site and notes down the dimensions and readings of the building. These readings are then uploaded to the website by the agent.

3D modelHere, two 3d models will be generated: one from the blueprint uploaded by the user and another one from information provided by the government agent[5], which would help the authority in detecting the illegalness of the building.IV

. ILLEGAL BUILDING DETECTION SYSTEMA. Structure of the system:

The system consists of two subsystems one is database management subsystem and second 3D model comparison subsystem. A Structure of illegal monitoring systemThe structure of the Illegal Monitoring System is shown in Figure 1.

Figure 1. Illegal building monitoring system structure diagram

Database Management Subsystem

:The Database management subsystem is

used to store the details at all stages. It stores the login credentials. It stores the blueprint and dimensions uploaded by the user. This blueprint is used to construct the 3D model. Then the database subsystem also stores the 3D model and onsite report generated by the
government agent. The above two 3D models are used by the government authority for comparison and detecting whether the construction is legal or illegal.3D model generation and comparison subsystem:

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This subsystem is designed to generate

the 3D models and use these models for detecting the
illegalness of the building. The government authority detects this by comparing both 3D models and the dimensions. This subsystem plays a critical role since based on the output of this subsystem, the nature of the building is decided. Following is the screenshot of the 3D comparison system.Flow of the system
Whenever w
e design a system, the flow of it is important. If the flow is not correct, then there is no use of the system. Figure 2 shows the flow of the proposed system. Figure 4
. Flow of the systemThe flow of the proposed system is as follows:
First the user signup's the system, he is asked to upload the blueprint of the building which he wishes to examine. The blueprint is saved in the database.The 3D model of the blueprint uploaded by the user is generated
from the expert.A random agent is selected from the database of the agents, for the onsite verification.
After the onsite verification, the agent uploads his observations and create the 3D model of it.After both the 3D models are generated, the authority compares both the models and gives the final result.
V.HARDWARE RESOURCEComponent
Minimum Requirement
Architecture
32 Bit or 64 Bit
Processor
Pentium III
ProcessorOr above
Arduino microprocessor
RAM
512 mb RAM or more
VI. SOFTWARE REQUIREMENTOperatin
g SystemWindows

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7(or above)
(32 or 64 Bi

ts)
Software Required
Net beans,
RJ TexEd, Rational RoseJDK,Sweethome3D,
Mozila Firefox,xamp
Fronte
ndJSP, JAVA
Backend
Mysql
VII. CONCLUSIONThis paper started with enlisting different types of illegal building and data generated from the system proposed. Monitoring of illegal building is from the comparison of readings entered by both the parties i.e the owner of the house and government agent provided for on site visit of the house.
Finally, the system runs into operation and may play an important role in illegal building monitoring of India and can greatly improve the working efficiency of local government.
V
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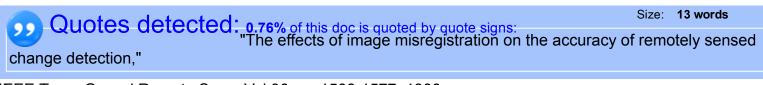Referenced: 12
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