Based on “Internet+” Construction Quality Detection Systems

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ABSTRACT

Relying on Internet information technology to realize the combination of the Internet and traditional industries of "Internet +" as a new economic form should be potential, for building the traditional industry by optimizing the factors of production and update the business system, reconstruct business model to complete the economic transformation and upgrade. This system with an open, equal and interactive network features in the use of traditional industries, through the analysis of large data and integration, trying to clarify the supply and demand, through to transform traditional industries of production mode, industrial structure, etc., to improve the traditional operating mode of ugly side.1

According to the requirements of standardization and informationization, we extend the application of "QRcode" and use the new media of WeChat to develop the Internet + construction quality inspection system. The system has the advantages of process standard, comprehensive information and convenient storage, transmission and adjustment, so as to provide more efficient and convenient detection methods for the construction workers, thus improving the construction efficiency.

INTRODUCTION

The construction of the traditional construction project management process[1], the relevant information of project management is reflected in the paper. The implementation of the management process requires all kinds of paper documents to

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communicate and communicate manually. The management process information needs to be collected and archived for statistical analysis. The management information cannot be stored and passed in time, nor can the management information be transferred at any time.

Now we will focus on the "WeChat" platform, which has a strong user base and an increasingly wide coverage, which can be linked to the corresponding background service system. The information transfer tool of “QR code” has solved the problem of the management information of the construction site to some extent, and has promoted the tracing mechanism of the management process to some extent. However, in the process of using the “QR code”, the production and updating of the “QR code” are more complicated, so the application of “QR code” has great development and innovation space.

CONSTRUCTING CONSTRUCTION QUALITY INSPECTION SYSTEM WITH WECHAT

In WeChat, the management system can be added to the system with the information of quality, safety, production, technology and materials in the system and automatically in series. "Internet + construction quality inspection system" is the echo time development theme of "Internet +" project management system, it with “QR code” as the core, on the basis of system integration, to WeChat as operating platform. That is, sharing a system (micro + system), two platforms (WeChat service platform + WeChat enterprise platform, service number is external, enterprise number is inside), a core (QR code). In the process of use and display, the enterprise through the enterprise field management process and the implementation of the information collection, for the process has been completed, just above the project team leader has the right to modify, and other management personnel is only read permissions. Propaganda, communication personnel can scan “QR code” into the micro display block + system services, you can view the measured quantity of solid, quality acceptance, safety protection, such as process information, communication personnel only "read only" access, and must be read through a login in a single scan through WeChat, cannot copy and forward. At the same time, open blocks can be opened and closed at any time.

In other words, the Internet + construction detection system is a database that contains the management process, the database update and modification can be done by phone WeChat, and "QR code" is the "key" to the database and read the database component content "password".
CONSTRUCTION QUALITY INSPECTION SYSTEM FUNCTION

Get The Location MAP of The Property

This module system by BIM (Building Information Modeling) as the foundation, to construction project with various relevant information data structure building model, through simulation the real situation of building digital information. The building information model can be used to show the entire building life cycle, including the construction process and the operation process. With interactive formed between components and the visual feedback, make the whole process is visual, realizes the renderings to show, project design, construction and operation in the process of communication, discussion and decision-making, etc.

Call Construction Video Recording

The construction site video monitoring system can be transferred through WeChat platform, with permission to monitor the line condition of the construction site of the construction site through local voice call warning and remote wireless video monitoring. In order to prevent the occurrence of high-voltage lines, it can also be used to monitor the construction of the site and ensure the safety of workers' lives.

Construction Costs Total

Engineering buildings cost a lot of money, hundreds of thousands of them, tens of millions more, and the project contract profit is more, it is easy to breed "the moth" of the project, objectively become the high hair area of economic crime. Using the WeChat scanning code platform to realize the reasonable and effective
utilization of construction resources, such as direct price of building materials, intelligent cost estimation, cost verification and accounting disclosure.

**Engineering Planning**

The planning details of the project are presented in the eyes of the reader, and the data graph is processed by BIM technology to support the engineering theory.

**Environmental Protection**

The green environmental information in the project plan will be put online, and the green project quantity which has been completed will be uploaded daily to show the environmental protection theme.

**Construction Staff released**

Project managers in all areas of the project, the general working list will be online immediately, and personnel changes will be updated immediately to facilitate the rewards and punishments in the project.

**Conundrum**

The problems encountered in the construction process will be uploaded to WeChat, and the problem will be solved by collective power.

**CONSTRUCTION QUALITY INSPECTION SYSTEM PLATFORM**

Figure 2. Quality monitoring.
CONSTRUCTION QUALITY INSPECTION SYSTEM BROUGHT ABOUT BY THE CHANGE

From "Extensive" to "Fine"

Talk about project management, many people have this problem: The vast number of drawings is unorganized and cannot be found at the time of use. After the completion of the project, the data is often lost and often causes unnecessary problems.

"Internet + platform" is the medicine of the disease, easily solved this "stubborn disease", the designer can upload drawings and changes [6], the parties of the project can download and download by themselves, the document can also be stored on the platform for centralized storage, online access, and one-click archiving.

In the past, the photo of the problem in the construction site usually needs to be uploaded to WeChat group or QQ group after the photo of the mobile phone has been taken by the on-site manager. The information is not only distributed but also difficult to manage. Today, all information is uploaded to the public, so that everyone can access it and save manpower and resources.

From "Complex" to "Simple"

"In the past, it was difficult for project managers to look at the BIM model, who needed help with guidance, and had high requirements for computer versions and configurations" Shenzhen university “Xili” campus BIM project manager Tian Zhengjia said.
Nowadays, whether the construction personnel are doing the construction reference or the BIM engineers do the model review, through the "Internet + platform" can be simple, quick access.

It has become a realistic problem for enterprises to transform and develop by adopting standardized process management and using Internet technology to reduce costs and improve efficiency. Therefore, it has become a new trend in the construction field to use the powerful force of internet technology to subvert the traditional operation and management mode of the construction industry.

The "Internet +" construction means to optimize the allocation of resources to build the future "Internet +" construction mode. The “Internet +” construction is an effective support for the use of interconnectedness, integration, data and intellectualization. Through technological innovation and management innovation, enterprises and personnel can be promoted.

During the process, the integration of various hardware providers, software providers, all kinds of professional service providers, material suppliers and Internet service providers, credit bureaus, and even financial institutions, for the industry's enterprises, and provide various services, efficient sharing of information between different participants, accurate transmission, feedback, etc., correct its basic characteristics are interconnected, integration, digital and intelligent. This could be the new future of the construction industry after resource optimization.

CONCLUSIONS AND SUGGESTIONS

In general, the benefits of using Internet + technology are there:

(1).The use of mobile Internet technology to provide inspection tools for field managers and improve the efficiency of inspectors' work, so as to "standardize" the work of on-site inspectors.

(2).The record of on-site inspection and the problems found are uploaded to the cloud platform in real time, to avoid the second entry, the flattening of data upload! Effectively solve the problem of quality, safety and technical field information source.

(3). Use the cloud platform, the relevant leaders of the project department, branch and head office can always master the progress of the project department, the inspection situation of quality and safety, and the risk situation.

(4).Implement effective management of project quality and safety inspection personnel, promote the management personnel to be responsible and responsible.

(5).To provide a comprehensive knowledge base of laws, regulations, norms, standards and other comprehensive information.
REFERENCES