

# SECURE ARCHITECTURAL DESIGNS USING NFT'S

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**Abstract-**The growth in technology is leading everything to shift towards an online platform or towards a virtual platform which gives you a different and unique identification on a social and online platform. As an architect we feel bad when someone steals or copies our design to stop that from happening and give the designer a unique identity of his or her work on a virtual platform which is safe and secure, which provides security through Block chain Technology, one such solution is NFT'S. NFT provides the user an online platform which is secure and gives the user a unique identity of his work.

**Keywords:** NFT's, architecture, Block chain, designs.

## 1. INTRODUCTION

Architectural designs are being copied and the designers or an architect is not even the credit and any kind of prior information about their design being copied. Designers do not have any kind of legal proof or any kind identify that their design belongs to them. The solution to the problem is NFT's and how it is safe using block chain technology and it also gives you a platform to sell your design, it also gives every user a unique identification of their design, video, etc. The block chain based technology is changing the world and how the world sees a artwork is also changing. NFT's is basically a unique token for every individual artwork and for individual user. NFT's are the new era for owing digital asset that gives you the right to sell it and then the person who bought the NFT owns the artwork with a unique identity of its own.

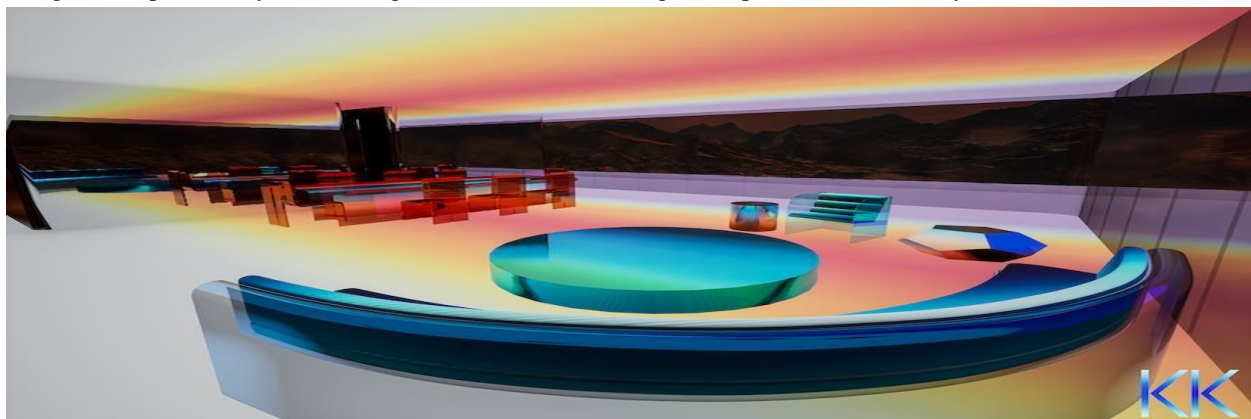
## 2. CYBER SECURITY IN ARCHITECTURE

### 2.1 Issues

Architectural Designs of famous architects are being copied without their permission or concern as there is no kind of proper documentation of their design or any proof to justify that's their design. The most recent controversy over Zaha Hadid's design "copycats" in China, some of the architects copied the design and some architects make minor changes and also don't take concern from the original designer, so there is a need to stop this and also there are no strict rules against this in India. While architects and engineers may own their original model, drawings, they do not own their designs. Copyrights belong to the author of the work, except works "for hire," created as part of the author's employment. There is no way an architect can have his or her design's ownership before implementing the design into a building. If the architect wants make a digital design or a 3d model and sell it online to anyone with his or her unique design without the fear of getting his or her design copied.

### 2.2 Solution

We can associate all the physical designs with a QR code to all the physical architectural design which would showcase the owner of the design (the designer information and building information, year in which it is built, year of design, etc). This method is not secured to a limit so here we can take help of cyber security to secure our designs and get a unique identity of our designs and also sell our design on a platform without any fear.



Reference: [dezeen.com/2021/03/22/mars-house-krista-kim-nft-news/](https://dezeen.com/2021/03/22/mars-house-krista-kim-nft-news/)

**Fig. 2.1 Mars House was sold in an NFT auction**

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The solution is NFT's(Non- fungible token) are a kind unique and not interchangeable it uses block chain technology to store the data so it is extremely secure and the architectural design , video ,etc .Nft also allows the user or the designer to be more creative and gives the user freedom to sell his or her design at higher price.

In today's generation NFT's is the new trend everyone is using nft's Recently Amitabh bachchan rolled out his personal NFT collection which was the highest bid for a nft in india the valuation was around \$756,000. Recently artist and an architect Krista kim sold her first "digital and an NFT house " for over valuation of \$500,000 . You can also create virtual land and it can be your digital assets.

This market is growing rapidly and is already over an global market size of USD 20 billion. Large companies such as meta verse , facebook, and many other multinational corporations are heavily involved and on the same hand investing in NFT's .

## CONCLUSION

NFT's and digital artworks are the next big assets and also has great future in it. Art projects, images and games are now worth of several US million dollars. NFT's are safe as they are guarded by bock chain technology which is also used in bitcoin and other famous coins. NFT's also provides the user a unique token and also gives the user to design, create or even sell their artworks .

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