A logo for college computing

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**Assessment Cover Page**

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I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

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PROJECTION OF FUTURE HOUSING RELOCATIONS IN THE CITY OF BEIJING

# Introduction

In this project, one of the most evident urban phenomena in the last decades in Beijing is being detected, this is the process of urban renewal of the city center, which CLOU has been managing to renovate inside the Capital Square Beijing and what they want to achieve with this is to reposition and improve the public space. Clou is managing through various processes to illuminate the office lobbies with a modern design language, introducing the concept "*The City Lantern*".

On the other hand, it is no secret that "*In 2019, Chinese economic growth was 6.1%, falling to the lowest level in 30 years. However, GDP*per capita*grew, surpassing 10,000 Americans for the first time.* *In the last year, the world's second largest economy has suffered a reduction in internal and external demand, which has been aggravated by the tariff war with the United States. All this can be seen in the reduction in government investments in infrastructure, which fell from 4 to 3.8% in one year, as well as a decrease in investments in the real estate sector, which fell from 10.2 to 9.9%.*” Zhicheng (2020). Chinese growth of 6.1%, the lowest in 30 years. What economic growth can generate is that most of the raw material products increase and this could cause greater unemployment for those people who work in this sector, since all this generates lower incomes and thus triggers the country's economic decline.

# Objective

In fact, what this project aims to achieve is to generate a notable impact on the real decline and abandonment that is being observed in houses and apartments. Additionally, in this Data it is observed that some houses were built since 1960 and through this it is intended to analyze the number of times these houses have been remodeled to date, according to the structure of the building.

## Problem Definition

Actually, the goal of this project is to be able to determine the perimeter areas that are most experiencing abandonment according to the year of construction and the number of renovations, or any type of repairs that have been made to the buildings in order to find the necessary results on what is the area of the buildings that is showing the greatest deterioration. In this way, measures can be taken to analyze what could be the possible causes that could be prevented so that the infrastructure looks more modern and more useful over the years.

### Scope

Regarding the methodology, according to the information observed it would be said that it is a segmentation methodology, which seeks to group the potential years of greatest activity and in this way be able to obtain more relevant information on whether there are similarities or if they have one or more aspects in common with the previous years. Moreover, the main idea is to improve the functionality of homes, updating their interior as a facade of the buildings since this could improve the appearance of the homes and make better advantage of the property.

In order to obtain more accurate data on the amount of money spent in recent years per house, to achieve this, it would be necessary to review the budgets on the estimated cost of the raw material that has been invested in the house, in addition to the price of labor according to the work that has been done within the property, whether in plumbing, painting, lighting, electricity, gas or remodeling that has been carried out within them. Then, having this information, a percentage of money could be considered for the unforeseen events that occur over time. However, in order for this budget to be accommodated as best as possible, it should be taken in account that this budget will vary according to the location of the place, the size of the house, the number of people who inhabit the place and the number of renovations that have been carried out to date, in addition to the materials that are selected, among other factors.

### Data Sources

The database that will be worked on focuses on the information that we were recommended to take from the university website in the Strategic Thinking course. The teacher shared a dataset with different links and one of them is Kaggle. In fact, once on the page, we searched the building databases and found that this is one of the most comprehensive and has a wide variety of information.

Housing price of Beijing from 2011 to 2017, fetching from Lianjia.com

A screenshot of a website

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### Ethical Considerations

The project of future housing relocations in the city of Beijing does not have any problem associated with the data that is being taken since all the information will be taken from this page: Beijing housing price from 2011 to 2017, obtaining from Lianjia.com. as far as it has been observed its database is public and this information does not contain confidential data, nor user privacy, in terms of social impacts it would be a good tool to apply in society but it would not be a tool to generate panic in society.

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# References

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