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CORRELATION BETWEEN AUTHENTICITY AND CONTEMPORARY IN ARCHITECTURE

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Abstract: This research aims to create new ideas and methods for correlating old and modern architecture. To achieve the research goals, the analyzing study for more recent 5 architectural Omani products and 10 famous architectural examples from all over the world had been done. The main points of analysis are: The different ways of combining Authenticity with contemporary in a way that preserves the historical value of the building in Omani architecture; Contemporary architectural trends (such as sustainability, deconstruction, Functionalism, and organic architecture); and the methods of linking Heritage with contemporary architecture were studied (Contrast and Separation, Correlation with Heritage, Clear Revival, Selection and Collection, Revival, and Abstraction). The main results of the current research work are to focus on and browse the different ideas and methods for linking Heritage with contemporary architecture: contrast and separation, correlation with Heritage, clear revival, selection and collection, and revival and abstraction. Also, the present works recommended using the proposed flow chart to correlate old and new architectural forms. Finally, the most important conclusion of the current work is the relationship between most of the buildings designed based on sustainability, Functionalism, and deconstruction trends during the design process and for organic architecture, it was not used extensively in contemporary buildings, also, for linking heritage methods it was widely used, contrast and separation, correlation with Heritage, selection, and collection, but clear revival, revival and abstraction are used in a simplified manner in case study buildings. By the end of the current work, a flowchart for achieving the correlation described between contemporary and Authenticity in architecture is presented.

Keywords: Authenticity– Contemporary– Omani public building

1. Introduction

Architecture is a product of the culture and development of society and focuses on the personality of architects, implying that society is imprinted by architectural work. This analysis is focused on the subject of originality and contemporary in Omani buildings, and the relationship between originality and contemporary in architecture means that architectural work is suitable to the prevailing intellectual level of society, taking into account forces and variables, with the need to take into account the cultural, social and historical principles of society so that it does not seem odd, a matter that transforms architectural works into cold and dry works, which creates an aversion to them and thus turns people away from them. Taming them and managing them to achieve the necessary objectives. Authenticity refers to two meanings, one of which is sequential and the other methodical, or both. This is because, even though it is reasonably real, Authenticity is dying out in the old, which reflects traditional trends. The contact between Heritage and contemporary gives the architectural results an expressive value that, on the one hand, lies in its connection with contemporaneity and its developmental civilizational value and in its connection with the expression of heritage integration, the process of intellectual connection between Heritage and contemporary through

a group of approaches, and this is achieved by combining the building's facades with traditional elements in a way that retains in the old city the historical value of the area. He does not lose the benefit of the current contemporary buildings. So this study shows us a new perspective that seeks to represent the contemporary perspective of architecture from the outside and from the inside to reflect the originality and integrate them into one building; based on the studies of many researchers, was focused on contemporary buildings or authentic buildings only, without focusing on the merging of originality and contemporary together in one building, so in this research will be addressed the topic of merging between Authenticity and contemporary in Omani public buildings. The current research aims to create new ideas and methods to correlate the old and modern in contemporary architecture. [1] [2]

2. Experimental Work

2.1 MATERIALS AND METHODS.

This detailed point deals with the concepts of Authenticity and contemporaneity and the heritage link element in contemporary architecture. It also explains contemporary architectural trends and some examples of buildings that represent the relationship between Authenticity and contemporaneity. It is explained in the tables and graphs.

2.2 AUTHENTICITY ARCHITECTURE:

2.2.1 Definition: Authenticity, or both together, refers to two meanings, one chronological and the other systematic. This is because, while relatively authentic, Authenticity blends into the old, which reflects traditional patterns. As shown in the (Figure1) [2]



Figure1: Example for Authenticity building [Er-

2.2.2 Element of Heritage in Oman: Since ancient times, Omanis have been involved in urbanization and have mastered the building of Buildings and palaces which have become archaeological evidence of Arab-Islamic architecture in our period.

Omani cities have castles and forts symbolizing their Heritage and culture, striking at the roots of history, and towers were constructed on the mountains and heights overlooking the city, and the rise and growth of the Omani city is also related to the presence of water, which is the falaj, and the fort or the castle is the defense means. The city of Oman is distinguished by the preservation of its architectural splendor, represented by compact houses regularly constructed on the slopes of the mountains and on the banks of the valleys, with balconies, windows, and ornate carved doors. [2]

It is in the Islamic tradition to follow the Omani style. Still, it includes unique Omani elements that can be traced back to castles, local mosques, traditional buildings, open balconies, retractable windows, and roof leveling systems, all of which are elements of the architecture of the castle. [3]

2.3 CONTEMPORARY ARCHITECTURE:

2.3.1 Definition: Contemporary means the suitability of architectural work to the predominant intellectual level of society, taking the forces and variables into account, taming and regulating them to achieve the desired objectives, with the need to take into account the cultural, social and historical values of society so that they do not seem odd and unfamiliar to them, which transforms them into unusual. Cold and dry works of architecture which Causes their repulsion, and so individuals turned away from it Shown in (Figure2). [4]



Figure2: Example for Contemporary building>Error! Ref-

2.4 Contemporary Architectural Trends:

2.4.1 Sustainability: The Arab city is a vibrant example of the sustainability of Heritage or traditional architecture in terms of its planning and the construction of its blocks. The conventional solidarity fabric is considered the best option at the level of urban planning to improve the efficiency of the inner atmosphere by shielding the walls from high thermal changes in summer, winter, night, and day. The first stage of adaptation to the environment is movement in terms of distance, form, length, orientation, and change of direction. Shown in the (Figure3) [5]



Elements of Heritage Architecture reflected the Sustainability of this Architecture

Windows and Openings

The windows and external openings were characterized by their small area, interspersed with decorative treatments and stained glass to prevent direct rays from entering.

Aalghemriaat

They are mainly used to provide lighting as they are openings in the wall covered with stained glass and plaster



Alamriaat

They are used for ventilation, which are small openings in the form of circles or polygons located at the top of walls, ceilings, and domes



Mashrabia

The mashrabiya performs several climatic, economic and social functions; These include: controlling the passage of light, controlling the passage of air and its humidity, and achieving privacy



Shokhshikha

It is the side openings located in the neck of a wooden dome used to cover the main halls, and it helps to provide ventilation and indirect lighting to the hall above it.



Figure3: Example for Sustainable building [Error! Refer-

2.4.2 Deconstruction: Contemporary architecture has been deconstructed in seven major directions. This deconstruction of various practices is based on mapping contemporary architecture in which buildings can be categorized in a specific direction (Figure 4).

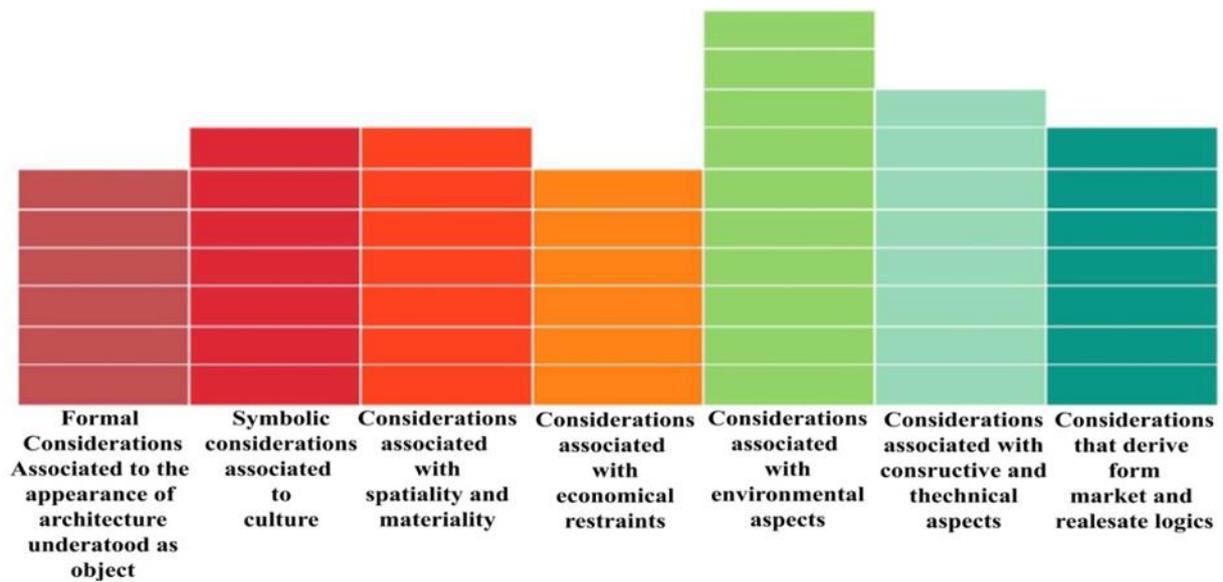


Figure 4. Seven variables that determine contem-

The development of this designation of contemporary architecture starts with identifying the following variables taken into account by architects and defined by our practice: First, those programmatic, constructive, and technical variables; second Spatial, sensory, and physical variables; third, the social variables. Fourth: formal and Fifth aesthetic, symbolic, conceptual, and cultural variables; Sixth: environmental Variables and finally: economic and regulatory [6]

2.4.3 Functionalism: In architecture, the doctrine that practical considerations such as use, material, and structure should decide the shape of a building is distinct from the attitude that design and structure must adhere to a preconceived image in the designer's mind (Figure 5).[7]



Figure5: Example for Functionalism building [Er-

2.4.4 Organic Architecture: A philosophy of architecture that searches for harmony and harmony between nature, an organic connection between man, architecture, and nature. Frank Lloyd Wright notes that organic architecture implies that building styles mimic forms of nature. Shown in the Shown in the (Figure6).[8]

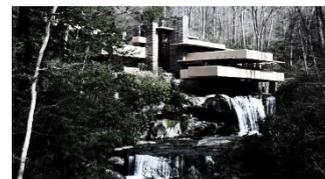


Figure6: Example for Organic building>Error!

2.5 METHODS OF CORRELATION HERITAGE IN ARCHITECTURE:

The significance of the relationship between Heritage and contemporary is due to the relevance of both and the need for their conversation and their involvement in culture in a way that binds them to each of them without prejudice, and this connection is connected to two fundamental factors: a cultural factor that does not deviate from the general structure of society and an influential factor Shown in the (Figure7) [9]



Figure7: Example for Heritage architecture building [Error! Refer-

Architectural Heritage is related to the history, characteristics, and Authenticity of cultures in the form of architectural formations and formations. The relationship between Heritage and modernity, one linked to Heritage and the other linked to contemporaneity, with each of the two dimensions resulting in intellectual beauty and another in beauty, is a two-dimensional operation. In the development of the expressive esthetic value of A translator of fundamental concepts influenced by Shown in (Figure8) [9]



Figure8: Example for Contemporary architecture building [Error! Reference source not found.]

2.5.1 Contrast and Separation: The contradiction between Heritage and contemporary lies in this direction's plastic elements. In the case of difference in the building in all the forming elements, such as rhythm, scale, and porosity, the variance may be total and partial if the difference is only in one of these elements. To draw attention to the contemporary building, the architect contrasts with history, and it may be a quick look that can be easily hidden from the eyes due to the strangeness of the product from the familiar and the neighborhood Shown in (Figure9). [8]



Figure9: Example for Contrast and Separation building [Error! Reference source not found.]

2.5.2 Correlation with Heritage: Depending on the architect's ability and professionalism in achieving this compatibility, compatibility with Heritage is at four stages: The outright revival of Heritage, outright revival of Heritage, Picking, and grouping., Revival and Abstraction., A complete abstraction of Heritage]

2.5.2.1 Complete Contrast: When it is necessary to design a building of a national nature or a distinctive sign and difference in the architectural composition of a building in the middle of the built environment around it, this pattern is used in architectural design, which gives a visual impression and heritage value in the middle of the current environment, and its effect decreases as it decreases. It resembles the setting and suits it. Therefore, we find that many architects appear to vary from each other in general. To give it individuality and draw attention to the building's configuration from its surrounding setting. And another view is that the comparison between buildings from different periods contributes to integration because each of these buildings has a different expression for its age. It is shown in the (Figure10).



Figure10: Example for Complete Contrast building [Error! Reference source not found.]

2.5.2.2 Partial Contrast: In this direction, the architect tries to express his design vision by dealing with Heritage. Still, at the same time, the architecture is visually similar to the ocean since he would use the same configurations or finishing materials to make the building appear from the exterior close to the surrounding architectural landscape Shown in (Figure11).



Figure11: Example for Partial Contrast building [Error! Reference source not found.]

2.5.2.3 Clear Revival: This pattern is seen as a method of copying a specific architectural heritage product because it varies entirely from the heritage building in terms of atmosphere and function. It is only at the formal level without paying attention to the social or cultural aspects aimed at this architectural development, and the architect attempts to step in the same direction. The truth of the matter is that this method of copying seeks to produce a single sound

from the past, thereby leading to the preservation of what was in the past to the detriment of what could be in the future, and it also eliminates the architecture Shown in the (Figure12).



Figure12: Example for Clear Revival building [Error! Reference source not found.]

2.5.2.4 Selection and Collection: This trend is currently prevalent in most Arab nations, in which the architect considers the Heritage a dictionary containing several vocabulary and architectural solutions, some of which can be chosen and used in contemporary architecture as an effort to interact with it. It is important to note that many of these terms have cultural connotations. It is considered by the architect when used in Contemporary architecture, and it's not just geometric relationship formations that are just Shown in (Figure13).

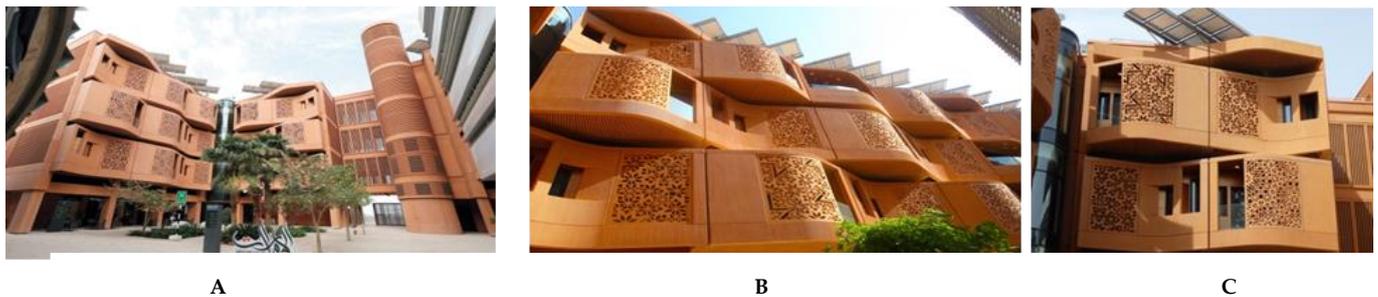


Figure13: Example for Selection and Collection building [Error! Reference source not found.]

2.5.2.5 Revival and Abstraction: This trend depends on a general abstraction of the formation of architecture with a revival of the vocabulary of Heritage used, in which the architect uses heritage vocabulary but reflects the degree of his interpretation of the elements and formations chosen and their social, cultural, and formative meaning of his invention in a contemporary formative context—environmental framework. Most are used by the architect Methods for achieving continuity in this direction with Heritage by several plastic processes: [Unity and similarity, Analogy, Integration, and Camouflage] Shown in (Figure 14)



Figure14: Example for Revival and Abstraction building [Error! Reference source not found.]

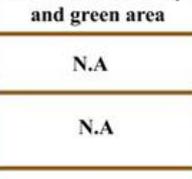
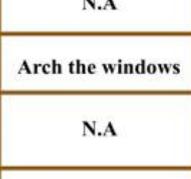
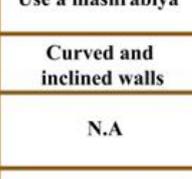
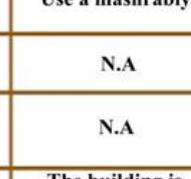
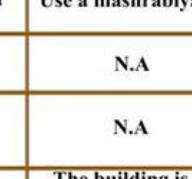
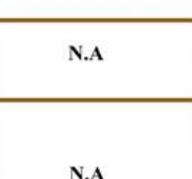
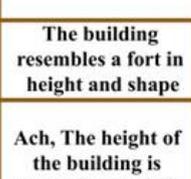
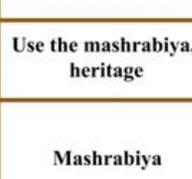
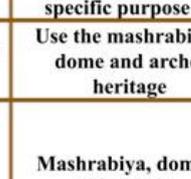
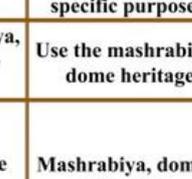
Contemporary Architectural trends							
	Sustainability	Natural lighting and Mashrabiya	Natural lighting and Mashrabiya	Natural lighting	Natural lighting and Mashrabiya	N.A	
	Deconstruction	N.A	N.A	N.A	N.A	N.A	
	Organic Architecture	N.A	N.A	N.A	N.A	N.A	
	Functionalism	The building is designed for a specific purpose	The building is designed for a specific purpose	N.A	N.A	N.A	
	Contrast and Separation	Use the mashrabiya component and the heritage dome	Use the heritage mashrabiya component	N.A	Use the heritage mashrabiya component	Use the heritage mashrabiya component	
	Correlation with Heritage	Complete Contrast	Mashrabiya and dome heritage	Mashrabiya	N.A	Mashrabiya	N.A
		Partial Contrast					
	Clear Revival	Use the mashrabiya and dome element	Use the mashrabiya element	N.A	Use the mashrabiya element	Use the mashrabiya element	
	Selection and Collection		Mashrabiya	N.A	Mashrabiya	Mashrabiya	
Revival and Abstraction	Use the heritage mashrabiya component	Use the heritage mashrabiya component	N.A	N.A	N.A		
Methods of Correlation Heritage in Architecture							
	Sustainability	Use of the mashrabiya and green area	N.A	Use a mashrabiya	Use a mashrabiya	Use a mashrabiya	
	Deconstruction	N.A	Arch the windows	Curved and inclined walls	N.A	N.A	
	Organic Architecture	N.A	N.A	N.A	N.A	N.A	
	Functionalism	N.A	N.A	N.A	The building is designed for a specific purpose	The building is designed for a specific purpose	
	Contrast and Separation	N.A	The building resembles a fort in height and shape	Use the mashrabiya, heritage	Use the mashrabiya, dome and arche heritage	Use the mashrabiya, dome heritage	
	Correlation with Heritage	Complete Contrast	N.A	Ach, The height of the building is similar to that of a castle	Mashrabiya	Mashrabiya, dome and arche	Mashrabiya, dome and arche
		Partial Contrast					
	Clear Revival	N.A	N.A	N.A	N.A	It looks like old heritage buildings	
	Selection and Collection	N.A	Arch	Mashrabiya, dome and arche	Mashrabiya, dome and arche	Mashrabiya, dome and arche	
Revival and Abstraction	N.A	The building resembles ancient castles	N.A	N.A	The building resembles old buildings		
Contemporary Architectural trends							
	Sustainability	Use of the mashrabiya and green area	N.A	Use a mashrabiya	Use a mashrabiya	Use a mashrabiya	
	Deconstruction	N.A	Arch the windows	Curved and inclined walls	N.A	N.A	
	Organic Architecture	N.A	N.A	N.A	N.A	N.A	
	Functionalism	N.A	N.A	N.A	The building is designed for a specific purpose	The building is designed for a specific purpose	
	Contrast and Separation	N.A	The building resembles a fort in height and shape	Use the mashrabiya, heritage	Use the mashrabiya, dome and arche heritage	Use the mashrabiya, dome heritage	
	Correlation with Heritage	Complete Contrast	N.A	Ach, The height of the building is similar to that of a castle	Mashrabiya	Mashrabiya, dome and arche	Mashrabiya, dome and arche
		Partial Contrast					
	Clear Revival	N.A	N.A	N.A	N.A	It looks like old heritage buildings	
	Selection and Collection	N.A	Arch	Mashrabiya, dome and arche	Mashrabiya, dome and arche	Mashrabiya, dome and arche	
Revival and Abstraction	N.A	The building resembles ancient castles	N.A	N.A	The building resembles old buildings		
Methods of Correlation Heritage in Architecture							
	Sustainability	Use of the mashrabiya and green area	N.A	Use a mashrabiya	Use a mashrabiya	Use a mashrabiya	
	Deconstruction	N.A	Arch the windows	Curved and inclined walls	N.A	N.A	
	Organic Architecture	N.A	N.A	N.A	N.A	N.A	
	Functionalism	N.A	N.A	N.A	The building is designed for a specific purpose	The building is designed for a specific purpose	
	Contrast and Separation	N.A	The building resembles a fort in height and shape	Use the mashrabiya, heritage	Use the mashrabiya, dome and arche heritage	Use the mashrabiya, dome heritage	
	Correlation with Heritage	Complete Contrast	N.A	Ach, The height of the building is similar to that of a castle	Mashrabiya	Mashrabiya, dome and arche	Mashrabiya, dome and arche
		Partial Contrast					
	Clear Revival	N.A	N.A	N.A	N.A	It looks like old heritage buildings	
	Selection and Collection	N.A	Arch	Mashrabiya, dome and arche	Mashrabiya, dome and arche	Mashrabiya, dome and arche	
Revival and Abstraction	N.A	The building resembles ancient castles	N.A	N.A	The building resembles old buildings		

Table2: Contemporary Architectural trends example

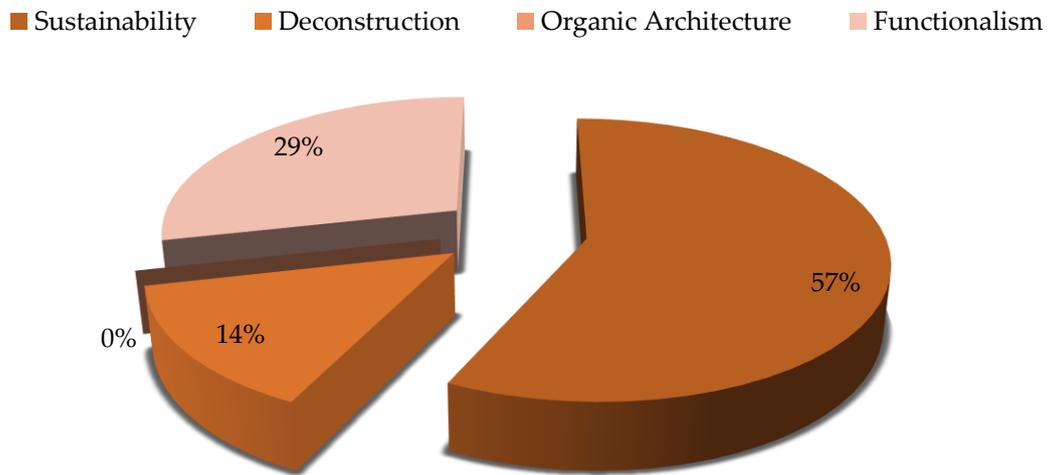


Figure 15: The Ratio of Building use to the ElementsContemporary Architectural trends .

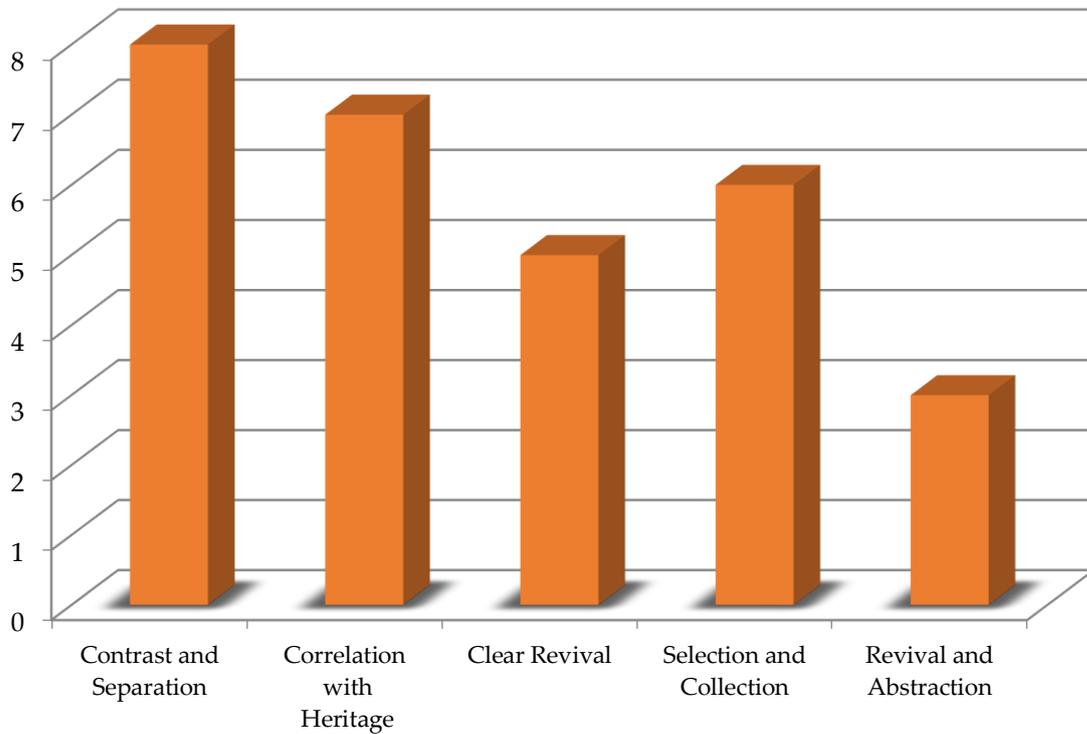


Figure 16: The Ratio of Building use to the Methods of Correlation Heritage in Architecture

2.6 CONTEMPORARY ARCHITECTURAL EXAMPLES:

2.6.1 Introduction to selected Architectural examples: his point illustrates the contemporary Omani buildings that linked the Heritage with the contemporary, as Omani architecture was known to most of the Gulf countries, which preserved the heritage value of the buildings to this day, and the heritage touch is used in contemporary Omani buildings. Among these buildings:

- A. The Royal Opera House11[11]
- B. Qasr Al Alam Royal Palace [10]
- C. Sultan Qaboos Mosque [14]
- D. History of Science Center [13]

<i>Building Name</i>	<i>Building Architect</i>	<i>Location</i>	<i>Photos</i>
<i>The Royal Opera House</i>	Carillion Alawi	Muscat, Oman	
<i>Qasr Al Alam Royal Palace</i>	Contractor: Abu Hatim Co. Designer, Architect: CES	The Heart of the Old Muscat	
<i>Sultan Qaboos Mosque</i>	Mohamed Makiya	Muscat, Oman	
<i>History of Science Center</i>	Hoehler + alSalmly	Muscat, Oman	
<i>Oman Convention and Exhibition Center</i>	Omran Company	Muscat, Oman	

Table3. Contemporary Omani Buildings

						
Contemporary Architectural trends	Sustainability	N.A	N.A	N.A	A mashrabiya was used	Use natural lighting and mashrabiyas
	Deconstruction	Was used throughout the building	N.A	N.A	N.A	Buildings in certain directions
	Organic Architecture	N.A	N.A	N.A	N.A	It was used to harmony with nature
	Functionalism	Been used in the structure	N.A	Been used in the structure	N.A	N.A
	Contrast and Separation	In the dome, window openings and the shape of castles	Use the arch, mashrabiya and wood in the windows	In the dome and the shape of window openings	N.A	N.A
Methods of Correlation Heritage in Architecture	Correlation with Heritage	Complete Contrast	The heritage element was used in the facades	Use of traditional elements such as mashrabiya and arch	Use of traditional elements such as shape of window, doom, and arch	N.A
		Partial Contrast	The building resembles ancient fortresses	The traditional mashrabiya and arch were used	N.A	N.A
	Clear Revival	Dome and shape of ancient castles as a cultural connotation	N.A	N.A	Use Mashrabiya	The Dome and the Mashrabiya
	Revival and Abstraction	The use of the Omani castle shape	N.A	N.A	Modern use of the mashrabiya	Modern use of the mashrabiya

Table4. Case Study Contemporary Omani Buildings

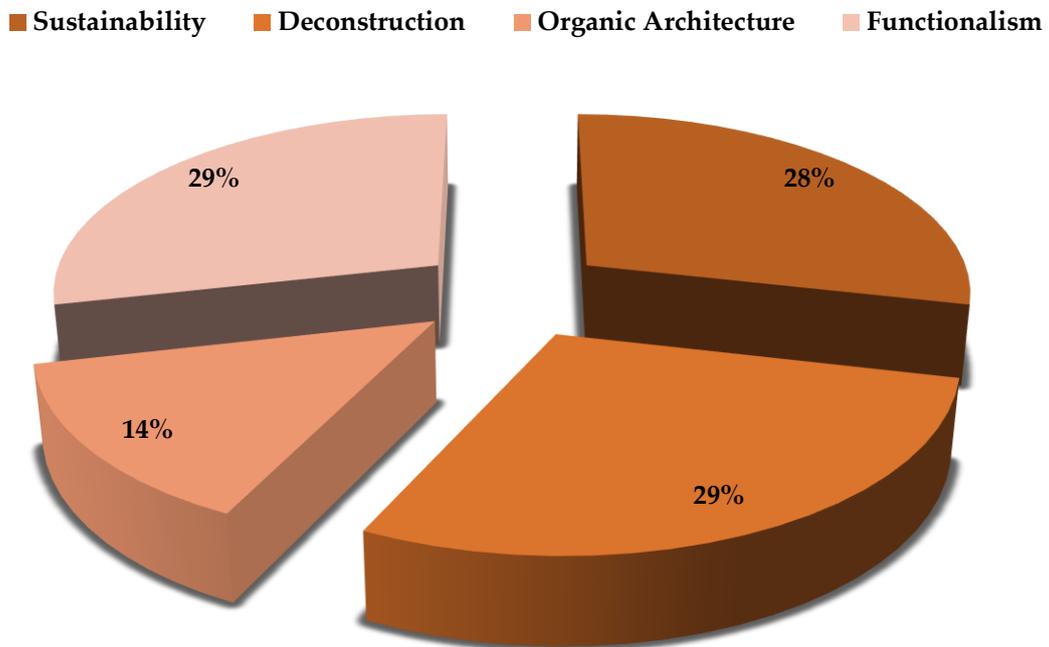


Figure17: The Ratio of Building use to the Elements Contemporary Architectural

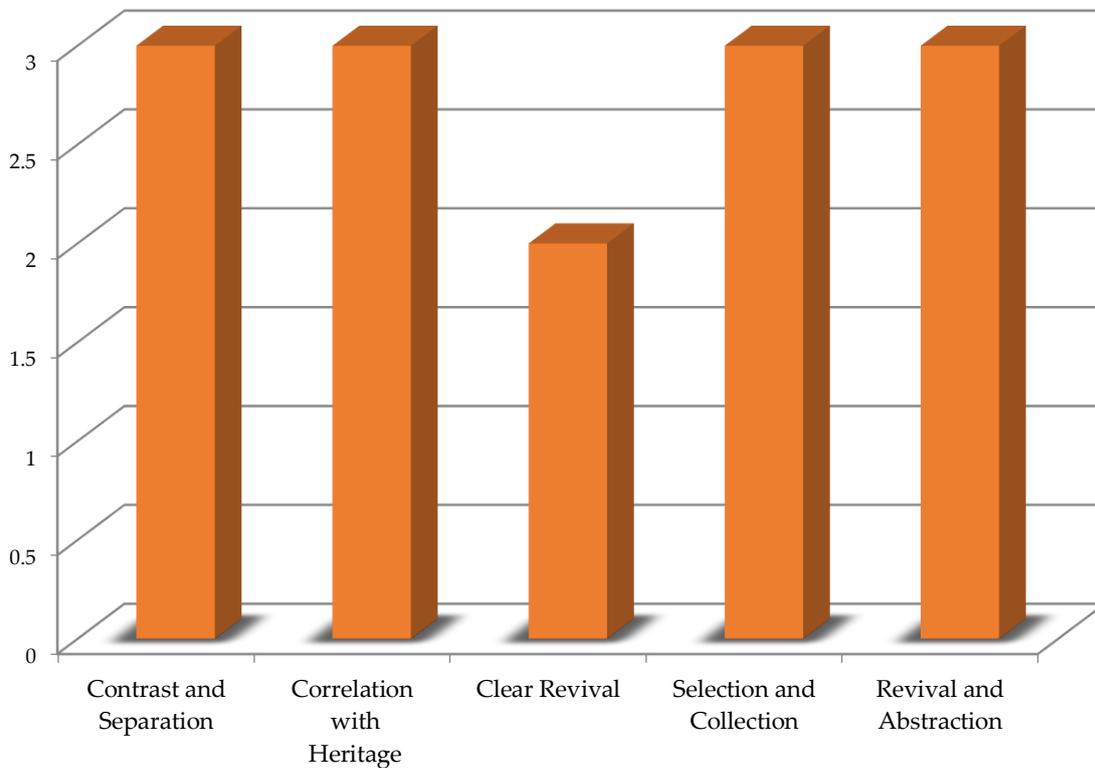


Figure18: The Ratio of Building use to the Methods of Correlation Heritage in Architecture

3. Results & Discussion

- ❖ This point includes the findings concluded in the research. The study has been conducted on the link between originality and contemporaneity in architecture.
- ❖ This research is based on Authenticity and contemporary in Omani buildings and the relationship between originality and architecture.
- ❖ The concept of the contemporary was defined, which means the suitability of the architectural work to the prevailing intellectual level and considering the forces and variables.
- ❖ Authenticity was also defined into two meanings, one chronological and the other systematic, or both. This is because Authenticity fades into the old, even if relatively authentic, which expresses traditional patterns.
- ❖ A study has been made on combining Authenticity with contemporary to preserve the historical value of the building in Omani architecture.
- ❖ Contemporary architectural trends were studied, and several points were mentioned (such as sustainability, deconstruction, Functionalism, and organic architecture).
- ❖ Also, the methods of linking Heritage with contemporary architecture were studied (Contrast and Separation, Correlation with Heritage, Clear Revival, Selection and Collection, Revival and Abstraction).
- ❖ A comparison was made between 5 contemporary Omani buildings and analyzed according to contemporary architectural trends and methods of linking Heritage with contemporary architecture Shown in [Table 5,6, and Figure 19,20,21].

3.1 Figures, Tables and Schemes:

Contrast and Separation	Correlation with Heritage	Clear Revival	Selection and Collection	Revival and Abstraction
8	7	5	6	4

Table5. Contemporary Architectural trends

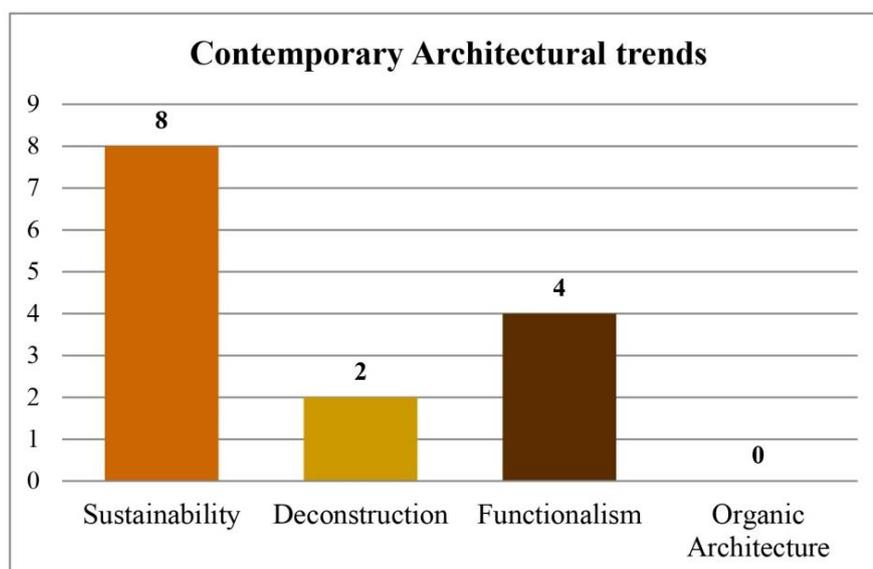


Figure19: The Ratio of Building use to the Elements Contemporary Architectural trends.

Contrast and Separation	Correlation with Heritage	Clear Revival	Selection and Collection	Revival and Abstraction
8	7	5	6	4

Table6. Methods of Correlation Heritage in Architecture

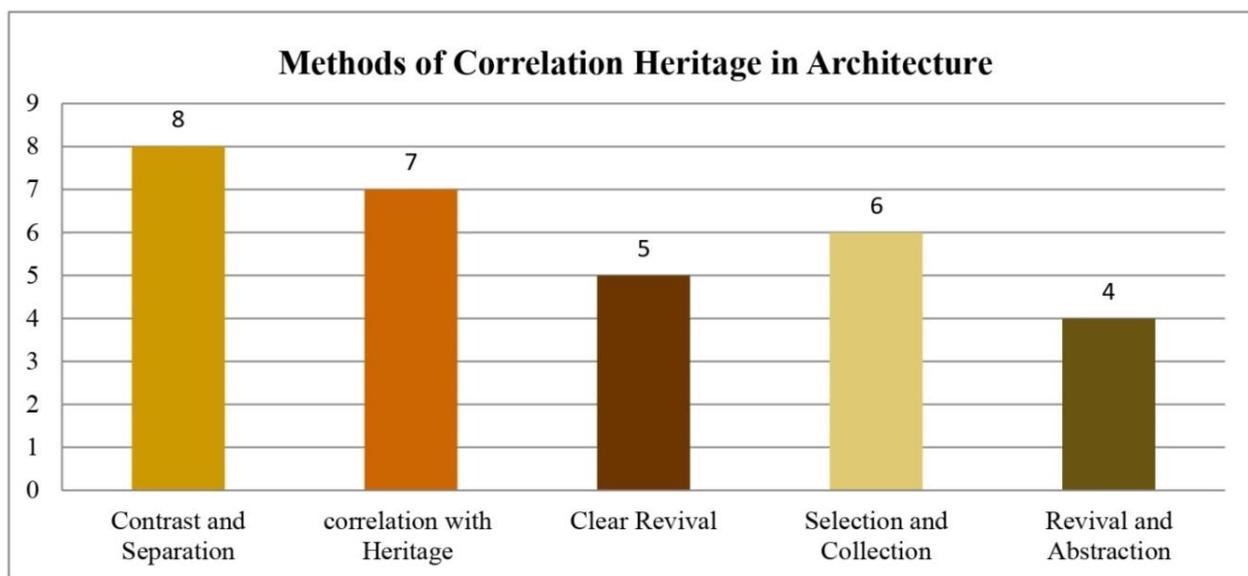


Figure20: The Ratio of Building use to the Methods of Correlation Heritage in Architecture.



Figure21: A proposed Methodology for Heritage Element in contemporary Architecture

4. Conclusions:

This research is based on the theme of Authenticity and contemporary in Omani architecture and the relationship between Authenticity and contemporary in general. The communication between Heritage and contemporary gives architectural forms expressive values and intellectual linking between Heritage and contemporary. And in this way, this research clarified a new point of view that seeks to make architecture reflect the contemporary perspective from the outside and simultaneously reflect the Authenticity from the inside. The integration between both in one building. This current work deals with integrating tradition and modernity in Omani buildings. This research aims to create new ideas and methods to correlate old and modern architecture. The current work presents the different ideas and methods for linking Heritage with contemporary architecture: Contrast and Separation, Correlation with Heritage, Clear Revival, Selection and Collection, and Revival and Abstraction, also the present works recommended using the proposed flow chart for achieving the correlation between old and new in the architectural forms.

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