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## The Designing Dimension And Its Diverse Technical Reflections In The Contemporary Interior Space (A Case Study Of The National Museum Of Qatar)

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### Abstract:

The interior designer deals with various design components and forms because they are based on design and technical principles, in order to reach interior spaces that achieve their designing dimensions, and this is done by referring to change and development that is based on knowledge, experience and the skill in order to reach creativity and advanced technical innovation in the design and implementation of these spaces, so that it can provide the highest levels of fluidity in movement while showing the aspect of safety and security within the internal space. Which requires studying that technical development with knowledge of the achievements of its designing dimensions and the diverse creative technical reflections it shows. Especially at the levels of contemporary interior spaces of museums, depending on the selection of unique design methods with a diverse technical reflection in their output, in a way that represents the design thought that keeps pace with the course of the current area, and leading in the end to attract the viewer to the design idea of display in the contemporary interior space of museums. Accordingly, the problem of the research study was formulated with the following question: What are the achievements of the designing dimension? And What is the role of this dimension of diverse technical reflection in the contemporary interior space of the National Museum of Qatar? While the importance of research contributes to supplying scientific libraries, especially in the field of interior design, with valuable information in the field of knowing the extents of the designing dimension, and the diverse technical reflection it contains at the design level, which can be referred to by specialists in the field of interior design, while benefiting from it theoretically and practically as design methods that can be adopted in the interior design of contemporary museums. While the current research aims to reveal the achievements achieved by the designing dimension, And What does this dimension show from diverse technical reflection in the contemporary interior space (for the National Museum of Qatar). The research study also included the axes of the theoretical framework as well as research procedures, represented by the research methodology based on the descriptive analytical approach (case study), and finally the research study included the extraction of the most important results, conclusions, recommendations and future proposals.

**Keywords:** Dimension, design, technique, diversity, contemporary interior space.

### 1. INTRODUCTION

2. Man practiced the design dimension since his existence on the face of the earth, so he needed to design internal spaces, through the formation of various designs that simulate technical and technological progress so that they meet the diverse needs of the recipient, by relying on the use of materials according to means and methods in a way that keeps pace with technical progress, as they represent means of attraction and excitement in the internal spaces of museums, as well as the design products they achieve with a design dimension that enables the designer to communicate his ideas according to his design vision. While it depends on innovative design dimensions directed to consolidate the idea and employ it within the overall technical output in forms and designs with a diversity of design, as well as the interior designer's focus by the executive aspect, by investing many methods and treatments as a tool to achieve design unity between all determinants of the internal space of museums, and this depends on the designer's creative abilities in order to reach the diverse design product with a design idea, in order to arouse a sense of the physical dimensions of the space, as well as about the diverse aesthetic and functional dimensions of the contemporary museum space.

### **2.1 The research problem and the need for it:**

The interior designer has over the years, sought towards the development of the design dimension of the interior space, by finding appropriate solutions and treatments for each new requirement imposed by the various ramifications of life, and which motivated designers to study these requirements stemming from the urgent need for the interior space. With reference to the functional and aesthetic dimensions, as well as studying the product of technical development in contemporary interior design levels, which showed contemporary design and technical methods and treatments, so that it had a prominent role in imparting functional and aesthetic value, Which was represented by products with diverse design forms in the contemporary interior space of museums, as well as the search for technical ranges with a diverse design dimension and the technical repercussions achieved by this dimension by studying its details in employ it in a way that reflects the diversity in the museum's internal space, to reach an internal space characterized by novelty and innovation, as well as originality and flexibility. This requires the designer's study of the degrees of creative diversity at the design and technical level, to reach diverse design products that reflect the design dimension that keeps pace with the spirit of the times, which in turn is based on clear technical standards followed by the designer to improve the reality of the contemporary interior space of museums, to perform his role at the functional and aesthetic levels. And through that the research problem is manifested by the following question:

What are the achievements of the designing dimension? And What is the role of this dimension of diverse technical reflection in the contemporary interior space of the National Museum of Qatar?

### **2.2 Research importance:**

The research study contributes to providing scientific libraries, especially in the field of interior design, with valuable information in the field of knowing the extent of the designing dimension, and the diverse technical reflection it includes at the design level, which can be referred to by specialists in the field of interior design, while benefiting from it theoretically and practically as design methods that can be adopted in the interior design of contemporary museums.

### **2.3 Research target**

The current research aims to reveal the achievements achieved by the designing dimension, and what does this dimension show from diverse technical reflection in the contemporary interior space (for the National Museum of Qatar).

### **2.4 Research limits:**

- 1- The objective border: The designing dimension and its diverse technical reflections in the contemporary interior space (a case study of the National Museum of Qatar).
- 2- The spatial limit: Determinants of the interior space of the National Museum of Qatar.
- 3- Temporal limitation: The research is determined temporally from the year 2018-2022 AD.

### **2.5 Define terms:**

Dimension: It is (The expressive and clear emotional distance that separates the recipient and the designing work, and is also known as: real discrimination in the design work), [1].

Design: It is defined as (The outcome of the total design operations that the designer accomplishes according to his environment, through shaping it, so that a person can harmonize and harmonize with it), [2].

Reflection: (It is the transmission of the visual or intellectual impact on the pictorial surface, leaving an aesthetic dimension, and this is in accordance with the contexts of the formative building systems of the artwork of the same style and artistic performance), [3].

The technical: (A group of raw materials, materials, machines, methods, means and systems that are included in the design process in order to perform a human service), [4].

Diversity: It is (That visual structure consisting of formal elements governed by the means of organization based on design and linked by constructive relations based on aesthetic and intellectual foundations), [5].

Interior space: It is (The initial element in the list of the interior designer, which is formed through the relationship between the engineering elements according to how we perceive them, and the space may acquire its aesthetic and sensory features from the elements within its field), [6].

Contemporary: It is defined as (Everything related to history associated with its current or present era), [7].

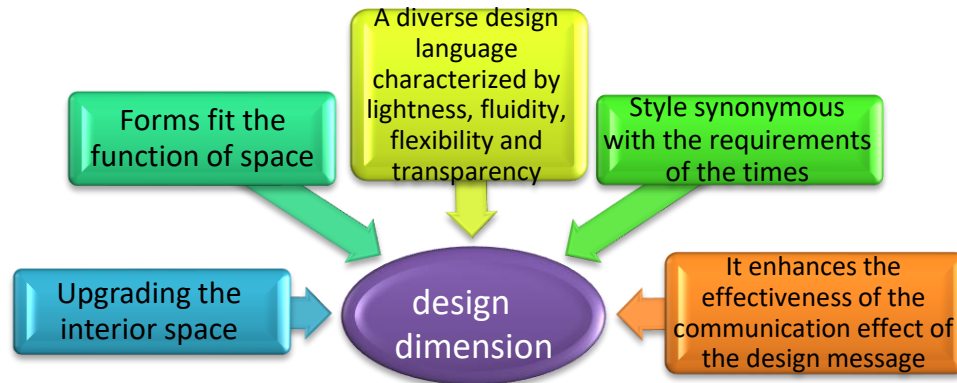
## 2- THEORETICAL FRAMEWORK

### 2-1 The designing dimension and its diverse technical reflections in the interior space:

Represents the design dimension and what it shows from the technical implications in the interior spaces being expressive through (The level of design performance leading to the production of a variety of design vocabulary that is new design language so that it is characterized by lightness and transparency, as well as aesthetics of flow and flexibility, by determining the movement of the elements of the design forms that make up the interior space), [8]. As the design dimension is also a creative feature that enables the interior designer to (find appropriate design forms for the function of the interior space for museums, as well as being a cultural anchor in itself so that it achieves access to upgrading with a contemporary design dimension in the interior space, and this may only be done through developing, the formal design configurations that make up the interior space of museums, and this is according to the designer's experiences based on the cultural and creative foundations that are based on the continuous accompaniment towards contemporary technical renewal), [9]. Through this, the design dimension in the internal space (An intellectual activity consisting of design processes that include a series of principles and functional and aesthetic foundations of various construction, based on the formulation of design solutions associated with the application of technical rules, to bring the internal space completed for museums with design dimensions according to contemporary techniques to the substantive space, So the elements of this design must provide dimensions and foundations that work to link them within formal relationships and patterns with a contemporary expressive meaning. So that it leads to the recipient's understanding of objects and assets within the internal space of museums clearly, as well as achieving the desired utilitarian aspects in the approved design of the museum space, in order to reach design forms designed according to the dimensions and rules of the basic interior design, so that in turn meet the requirements of the interior space based on the ideal and contemporary design diversity characteristics. Through design links and relationships, which determine the types of the general functional and aesthetic structure in the interior spaces of contemporary museums), [10]. While the design dimension and its technical repercussions appear in light of the technical developments that (Take from the requirements of the times as an approach or method, through the distinction of the design dimension in the contemporary interior space of museums with expressive specificity in this field in terms of choosing technical treatment based on implementation and demonstration. With the aim of achieving diversity and creativity in order to attract the satisfaction of the recipient, as technology represents as an active and influential element in the process of design achievement, because it added contemporary methods through which it reflects the product of the dimension design on the entire design process, as well as its vast difference in its structure and in its paths, as well as to the outputs that the interior designer reaches in its implementation or expression through his design idea. As well as through its contribution to the renewal of the design dimension in order to reach the addition of aesthetic and performance touches so that it constitutes a design diversity, as well as being shortened for the designer time and effort in order to improve the reality of the internal space of museums, in order to reach creative achievements with a clear impact on the recipient), [11]. Therefore the design dimension in the inner space plays (A complementary role because it represents a design act so that it gives the design idea a physical existence, expressed about her, using modern materials and tools, according to an advanced design and technical method through which idea is implemented so that it is clearly shown, by studying technical and design variations within an integrated design system), [12]. Especially in the interior space of museums (As an consider it essential aspect to achieve the target and purpose thereof, by fully realizing of the design idea that has been formulated and then created, in order for the designer to finish his design work with the variations that he achieves through diverse design and technical methods, in order to achieve a distinct qualitative appearance at the level of the design dimension so that it would enhance the effectiveness of the communicative effect of the design message and that would be through diverse design and technical treatment, because it has visual and audio effects that have a functional and aesthetic impact on the recipient in the contemporary interior space of museums) ,[13].

It is clear from the above that the design dimension and the technical reflections it shows in the interior spaces represent in itself a design language contributes to the production of a variety of design vocabulary characterized by lightness and transparency, as well as the aesthetics of flow and flexibility, and this depends on the basis of determining the interior designer to the movement of the elements of the design forms that make up the internal space, in order to find design forms suitable for the function of the space so that it achieves the design target is to reach the upgrading of the contemporary design dimension and that is through the development of configurations the design component of the interior space, according to the vision and experience of the built designer on the cultural and creative pillars, the basis of which is the continuous keeping up with the technical renewal as it represents a contemporary formulation of design solutions, and this depends on the application of the rules according to the design development, in order to bring out the design achievement with dimensions and foundations within formal relations and patterns with a contemporary expressive and design meaning, in order to achieve the desired utilitarian aspects that It is based on the characteristics of contemporary design diversity, as

well as considering it a style that is synonymous with the requirements of the times, through its reliance on technical treatments with implementation and demonstration using modern materials and tools, with the aim of achieving diversity and design creativity, which contributes to adding aesthetic and performance touches that enhance the effectiveness of the communicative effect of the relevant design message. The design dimension is reflected in the diverse visual and audio design influences as well as achieving the functional and aesthetic impact in order to and draw the recipient to the contemporary interior space of museums. Look figure [1].

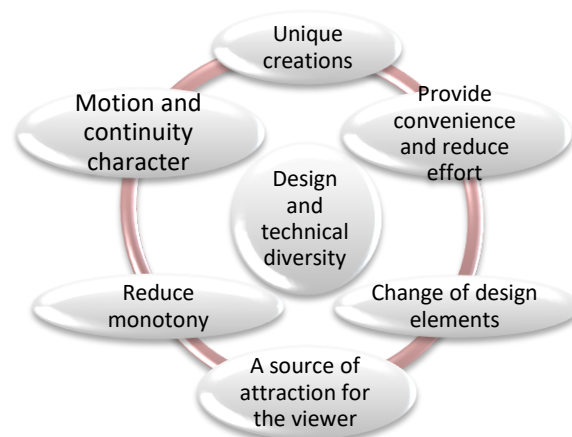


**Figure [1]** Shows the designing dimension and its various technical reflections in the interior spaces (Layout by the two researchers)

## 2-2Design and technical diversity in contemporary interior space:

The design and technical diversity in the interior space is a method based on the study and endeavor of the designer through (The change that occurs in the total components of the interior design or may be a part of it, to contribute to the creation of movement and diversity that gives the character of continuity to the recipient within the space, and this is through the vision and understanding of the designer design requirements, as well as the need for change within the interior spaces of museums, so that this is a reflection of the designer's desire for that design change, and this is done by reaching new diverse design products from previous configurations and presenting them to forms that are a source of attraction for the viewer within the contemporary interior space of museums, [14]. And the design and technical diversity may be related to the culture of the era in one way or another, as well as (Through the diversity of design methods, and what it showed of innovations and technological changes in the internal environment, as well as the awareness and creative intellectual design efforts that the interior designer possessed, so that it was able to harness contemporary materials and materials, and that by adapting it to meet the functional and aesthetic needs of the recipient within the museum spaces), [15]. While the reference to the role of design and technical diversity in interior design lies in the fact that it represents (Design options possessed by the interior designer, most of which fall under the concept of design pluralism, whether in providing the requirements of the design idea or in showing it to reach an organized modal design formation characterized by unity and diversity since its establishment, in order to attract attention and arouse interest, as well as addition aesthetic and artistic values in the museum spaces), [16]. Therefore it can be said that the design and technical diversity represents (Intellectual and skillful control through which the interior designer uses modern materials, in order to reach the design diversification, by relying on the use of his new means and techniques, to implement the design idea, which in turn contributes to achieving the aesthetic and functional goal, in addition to the role of design diversity in reducing monotony, so that the designer seeks diversity to keep pace with his desires for continuous change, so he seriously seeks diversification in uses design so that a source to the needs of the recipient, by employing them in the form of design relationships to serve as structural reinforcement bonds for the design output, because Most of the design work its meaning lies in the designer's study of the complex design relationships in which it was established), [17]. Therefore, it must be noted that the concept of design and technical diversity represents (The culture of the era through its association with the diversity of methods with a designing dimension in the levels of contemporary museum spaces. Therefore, innovation and technological change in society confirm that there are many possible technologies for one function that can provide creative and unique services. In a way through which the recipient realizes the design diversity within the contemporary interior space of museums), [18]. So that the interior designer resorts to design and technical diversity (In order to achieve his basic targets, in order to provide comfort and reduce the effort of the recipient during movement within the museum space, as well as access to the unity achieved in output the design the diverse as a comprehensive whole of the unity of form and style, and the basic idea in order to achieve the follow-up of the recipient's eye for all parts of the design within the contemporary interior space of museums), [19].

It is clear from the above that the design and technical diversity in the internal space represents the feature of change that occurs in the overall elements of the design, in order to create a movement and diversity that represents the character of continuity for the recipient, addition to the output of new design products from previous configurations and convert them into design forms so that they constitute a source of attraction for the viewer, relying on scientific innovations, in order to form design patterns with a distinct organization characterized by unity and diversity which achieves interest and objective response, through options the interior designer based on the use of emerging technologies and materials, in order to implement the design idea, as well as the role of design diversity in reducing monotony within the space, by strengthening the bonds of design output, in order for the recipient to understand the meaning of the complex design relationships in which the space was established, so that it represents the culture of the age expressing the provision of creative and unique services with contemporary innovations and technologies, so that it leads to providing comfort and reducing the effort of the recipient during movement within the internal spaces of museums. Look figure [2].



**Figure [2]** Shows the design and technical diversity in the contemporary interior space (layout by the two researchers)

### 2-3 Indicators of the theoretical framework:

1-The design dimension and the technical reflections it shows in the interior spaces in itself represent a design language contribute to the production of a variety of design vocabulary characterized by lightness and transparency, as well as the aesthetics of flow and design flexibility, and this depends on the basis of determining the movement of the elements of the design forms that make up the interior space, in order to find design forms suitable for the function of the museum's internal space.

2- He depends upscaling and its relationship to the design dimension depends on the development of the designer's vision and experience based on the study of cultural and creative foundations based on continuous accompaniment with technical renewal, which leads to achieving diversity in the formulation of contemporary design solutions, to reach the of the design product achievement with dimensions and foundations within relationships and shapes patterns with a contemporary expressive meaning, within the internal space.

3-The interior designer seeks to show diversity by relying on the design dimension in a manner that is synonymous with the requirements of the times, based on technical and design treatments through implementation and demonstration, using modern materials and tools, so that as to contribute to enhancing the effectiveness of the communicative effect of the design message with a design dimension, this is because it reflects the effects of the diversified visual and audio designs within the interior space.

4- The design and technical diversity in the interior space is fulcrum on the change in all design elements or part of them, in order to create movement and diversity characterized by the nature of continuity for the recipient, as well as producing new design products from designed configurations the previous and converting them into design forms so that they are a source of attraction for the viewer, and that by relying on scientific innovations.

5- The design and technical diversity contributes to the formation of contemporary design patterns, through its reliance on the formalist organization that is characterized by the design unity and diversity in its foundation, which achieves arousing interest and objective response, through the interior designer's choices based on the use of emerging technologies and materials, in order to implement the design idea, as well as the role of design and technical diversity in reducing monotony within the contemporary interior space.

6- The design and technical diversity represents a reflection of the culture of the era in order to strengthen the bonds of design the result, which leads to the recipient understanding the meaning of the complex design

relationships in which he established the contemporary interior space, through the use of innovations and contemporary technologies, so that it leads to the advancement of unique design creations, as well as the provision of comfort and reduce the effort of the recipient during the movement within the contemporary space.

### 3- RESEARCH PROCEDURES

#### 3-1 Research Methodology and Procedures:

Due to the nature of the research, The two researchers adopted the analytical descriptive approach (a case study), which is one of the scientific research methods, in order to reveal the achievements achieved by the design dimension and what this dimension shows of reflections technical diverse in the contemporary interior space of the Qatar National Museum (a model), because this study requires knowledge of all its details, relying primarily on the framework theoretical, leading to a comprehensive achievement of the research objective:

#### 3-2 Research community

Include the research community and its sample to study (Qatar National Museum as a model).

This sample was selected according to the following justifications:

- 1- Relying on the executive selection with a design and technical dimension, and the diverse technical reflections it shows, especially in the subject of interior design (for the Qatar National Museum as a model).
- 2- The selected sample has been designed in a thoughtful manner, according to design requirements commensurate with the achievements of the design dimension in terms of diverse technical reflections on the design level in an impressive way.

#### 3-3 Validity of the research tool

For the purpose of confirming the validity and comprehensiveness of the analysis tool as one of the most important conditions that must be met in the tool adopted by any research study, the validity of the tool used was verified after completing all the research tools, and then the analysis axes form was presented to a group of experts, with Experience in the field of interior design, to express their opinions about its validity in the light of what was presented of their sound scientific observations, and after expressing their opinions in terms of the validity of the paragraphs and diagnosing what needs to be modified. Then it was returned to the experts again, and there was consensus on the validity of its paragraphs by 100%, as in table [1]:

Subtitles	secondary paragraphs	
The designing dimension and what it shows of technical reflections represents	A new design language with a diverse vocabulary through	Lightness Transparency flow Design flexibility
Upgrading and its relationship to the design dimension is done through	Keeping pace with contemporary technical renewal Formation of Formalism patterns with contemporary expressive meaning	
The designing dimension and its link to the methods and requirements of the times, and this is by studying the designer to	Technical and design treatments based on implementation and display based on	The use of modern materials, raw materials and tools
The diversity designing and technical in the interior space through	Enhancing the effectiveness of the communication effect of the design message	The change in the design elements based on
The diversity designing and technical and their role in forming contemporary design patterns And it depends to	The diversity of movement that is characterized by continuity	Previous design configurations based on
The importance of the diversity designing and technical and their contemporary reflection in interior design because for contributes to	Design forms that are sources of attraction	Organize formality based on
	The designing unit	Strengthening the bonds of design output through
	Excitement and response	Providing unique design creations through
	The use of innovations and contemporary technologies	
	Providing comfort and reducing effort to the recipient	

Table No. [1], shows the final analysis form (layout by the two researchers)

### 3-4 Description and Analysis: Qatar National Museum

#### First: The general description:

The Qatar National Museum is located in the State of Qatar - Doha, where the museum was opened in 2019, refer to the display of series of developments in the history of the State of Qatar. It was designed by the French (Jean Nouvel), whose design was inspired by the shape of the desert rose. In general, the general description of the museum showed a total area It is estimated at 143,145 square meters, while the general description of the internal space for the museum is that it consists of 1,892 concrete pillars made of reinforced concrete, with the designer adopting on fiber technology (UHPFRC) with a thickness of 40 mm and a light color, in addition to being divided into 7,600 pieces of various shapes. The design was designed to be veining like a desert rose, as the general description of the interior space showed to the designer's study of the dimensions of high-tech development based on passive building systems (PASSIVE SYSTEM), on which based on it designed the museum, in order to reduce energy consumption in general, while the general description of the space the interior is of for the structure that does not correspond to a specific geometric shape and in a design manner with a horizontal projection and an abstract vertical section, in addition to being composed of four levels above the ground with a height of 40 m, and a total vertical area of 52167 m<sup>2</sup>, with the adoption of a method of interlocking 539 discs with convex faces and different sizes, where they represent this as a communication technique by referring to decentralization and asymmetry with the adoption of the intersection between the formal bodies, leading to the fluidity and flexibility among the various design forms with a design dimension and the technical reflections they show, to represent a diverse design reflection with a technical dimension in the interior spaces of the Qatar National Museum, source:

<https://2u.pw/hwYewHQ>.

#### Second: Analysis:

The main axis: The designing dimension and its diversity technical reflections in the contemporary interior space (as a case study for the Qatar National Museum).

Their designing dimension and its technical reflections emerged through the designer's adoption of a new design language with a variety of vocabulary within the internal determinants of the museum, this is in order to achieve the characteristics of technical diversity by adopting the studied lightness that is based on a series of variety functional and aesthetic principles and foundations, as well as referring to transparency in design through the adoption of design relationships between elements of creative technical activity within the internal determinants of the museum, while the idea of the interior designer also emerged through the referring to the flow through the appropriate design forms for the function of the space, as well as emphasizing the flexibility of the studied design through the clarity and simplicity of the design in technical performance within the interior spaces of the National Museum of Qatar. See figures [3], [6], [7], [5].

As baptized the interior designer to studied the upgrading and its relationship to the design dimension, this is done through continuous keeping up with technical renewal based on the study of cultural and creative foundations, through technical diversity in formulating contemporary design solutions within the determinants of the museum's interior space, as well as referring to its reliance on formalism patterns with a contemporary expressive meaning based mainly on contemporary design methods, so that it showed its interdependence within design relationships in the interior space of the National Museum of Qatar, see Figure [3], [4], [8].

The designing dimension and its connection with the methods and requirements of the era also emerged, and this done through the designer's study of the technical and design processing, based on implementation and display in the museum's internal determinants, through the use of materials and tools based on technological development, in order to achieve the desired utilitarian aspects with the addition of a variety of aesthetic and design touches performance, within the levels of the ceiling and wall designs of the museum, as well as enhancing design message the effectiveness of the communication effect of the, through the effects of the designing dimension and the diversity it reflects in visual and auditory design, in order to attract and dazzle the recipient for design output in the interior space of the National Museum of Qatar, see Figure [4], [5], [8].

The design and technical diversity also contributed to the internal determinants of the National Museum of Qatar, in achieving design change based on design elements, through the realization of the interior designer to the diversity of movement, which is characterized by the nature of continuity, and this is based on the designer's vision and understanding of the design requirements within the museum's interior space, as well as studying of the previous design configurations based on certain design forms that constitute in which a sources of the attraction, and that is based on scientific innovations according to the concept of studying contemporary technical treatments within the internal determinants of the National Museum of Qatar. See Figure [3], [5], [6].

While the design and technical diversity showed their clear role in forming contemporary design patterns in the interior space of the National Museum of Qatar, and this is done through formality organization in order to achieve the design unity by relying on the interior designer's choices, based on the use of emerging technologies and

materials within the internal determinants of a museum, as well as referring to the study of excitation and response in order to reduce monotony within the interior space of the National Museum of Qatar, see Figure [3], [6], [4]. The importance of design and technical diversity and their contemporary reflection in interior design also emerged by strengthening the clear design output links within the museum's interior space, and this is based on the use of innovations and contemporary technologies, through the designer's study of the possible techniques for a single function within the contemporary interior space of the museum, this is in addition to the designer's sense of the importance of design and technical diversity by providing unique design creations, and that's for provide comfort and reduce effort for the recipients, due to the diversity of design uses, so that it is a source to meet their needs in the contemporary interior space of the National Museum of Qatar, see Figure, [6], [7], [5].



Figures [3], [4], [5], [6], [7], [8] Illustrate the designing dimension and its diversity technical reflections in the contemporary interior space of the National Museum of Qatar.

Source: <https://2u.pw/hwYewHQ>

#### 4- RESULTS:

1- Achieved of the interior designer to study the designing dimension through what he showed of contemporary technical reflections within the internal determinants of the Qatar National Museum, with his emphasis on showing a variety of functional and aesthetic principles and foundations, by employing characteristics based on diversity in design depending on (lightness, transparency, fluidity, design flexibility), than led to the display of clear and simple design forms at the level of design and technical performance, with its suitability to the function of the contemporary interior space of the National Museum of Qatar.



2- The idea of the interior designer emerged through his ability to study design and technical upgrading with reference to their relationship to the designing dimension, through the reflection shown by technical diversity in the formulation of contemporary design solutions, this achieved continuous keeping pace with the contemporary technical renewal within the internal determinants of the museum, as well as choosing contemporary design methods based on the designer's study of cultural and creative foundations, this achieved formality patterns of contemporary expressive meaning within the interior spaces of the Qatar National Museum.

3- The interior designer had the ability to achieve the desired utilitarian aspects while adding a variety of aesthetic and functional design touches, this is through his emphasis on the connection of the design dimension according to the methods and requirements of the era, especially in levels of ceiling and wall of the museum, as well as relying on a study the technical and design treatments based on implementation and display, through the use of modern materials, raw materials and tools, which contributed to achieving and enhancing the effectiveness of the communication effect to message design based on the effects of the designing dimension, which represents diversity design visual and audio and what it reflected of a clear attraction and pull for the recipient within the contemporary interior space of the National Museum of Qatar.

4- The role of diversity design and technical was based on the designs of the internal determinants of the National Museum of Qatar, this is done through the vision and understanding of the interior designer in showing the diversity of the movement that is characterized by the nature of continuity based on design change in the design elements within the museum's interior space. In addition to its reliance on scientific innovations according to contemporary technical treatments, which contributed to the achievement of new design products by relying on Previous design configurations based on design forms, so that it is a source of attraction within the interior spaces of the Qatar National Museum.

5- Studying the interior designer to diversity design and technical and their clear role in forming contemporary design patterns within the internal determinants of the National Museum of Qatar, this is done by showing the designer the formality organization based on approved design options, using emerging technologies and materials, this led to the realization of the design unity in the interior space of the museum, with the designer's quest to reduce monotony while showing excitement and responsiveness within the contemporary interior space of the National Museum of Qatar.

6- Emphasizing the importance of diversity design and technical and their contemporary reflection, through the study of the interior designer to the possible techniques for one job within the internal determinants of the museum, this was evident by strengthening the bonds of the design output, through the use of the interior designer to innovations and contemporary technologies, which achieved the provision of unique design creations based on the diversity of design uses, so that it is a source to meet the needs of the recipient, which led to providing comfort and reducing effort the within the internal spaces of the Qatar National Museum.

## **5- CONCLUSIONS:**

1- Achieving the design dimension and its technical reflections in the interior spaces of the museum , depends on the level of design and technical performance leading to the production of a variety of new vocabulary with a design language that relies on employing the characteristics of diversity by adoption mainly on (lightness, transparency, fluidity, design flexibility), in order to achieve appropriate design forms for the function of the museum's interior space, by relying on the diversity structural functional and aesthetic principles and foundations, which in turn determines the movement of the elements of the design shapes that make up the interior space.

2- The study of upgrading and its relationship to the design dimension is based on contemporary technical innovation, by relying on the cultural and creative foundations that are based on continuous keeping up with the times based on the vision and experience of the interior designer, which leads to achieving diversity in the formulation of contemporary design solutions, in order to reach the output of the design achievement with dimensions and foundations within formality relations and patterns of contemporary expressive meaning, and this is done by referring to contemporary design methods, so that it works on its interdependence contemporary design relationships within the interior space.

3- The reality of the design dimension and its connection to the methods and requirements of the times depends on the technological development to reach diversity and technical creativity in order to attract the satisfaction of the recipient, through the reliance of the interior designer on the renewal and distinction of the designing dimension in a manner that is synonymous with the requirements of the times, and this is done by using modern materials and tools, by relying on technical and design treatments based on implementation and display, in order to reach the desired utilitarian aspects while adding a variety of aesthetic and performance design functional, so that it enhances the effectiveness of the communication effect of the designing message with a design dimension, in order to attract and pull the recipient to the inner space.

4- The reference to the characteristic of diversity design and technical in the interior space, be through a change in all or part of the design elements, and this is based on the designer's vision and understanding of contemporary

design requirements, so that it achieves the creation of movement and design diversity, that it is characterized by the nature of continuity for the recipient, which in turn leads to producing new design products from previous design configurations and converting them into design forms so that it is a source of attraction for the viewer, by studying scientific innovations according to contemporary technical treatments.

5- Emphasizing the depth diversity designing and technical and their clear role in creating contemporary design styles, by owning the interior designer to design options, so that most of them fall under the concept of design pluralism, which in turn leads to showing the distinct organization, and this is done through achieving the design unity based on diversity in its establishment, by relying on the use of emerging technologies and materials, down to achieving attention and objective response, this depends on his new means and techniques to implement the design idea, which will reflect the impact of this on reducing monotony within the contemporary interior space.

6- Studying the importance diversity designing and technical and their contemporary reflection in interior design, by achieving the aesthetic and functional goal that expresses the culture of the era through its association with the diversity of design methods and contemporary technology, this is in order to strengthen the bonds of the design output, which will have an impact on the recipient's understanding of the meaning of the complex design relationships with which he established the interior space, as well as adopting possible technologies for one job in order to reach unique design creations, this is in order to provide comfort and reduce effort for the recipient during movement within the contemporary interior space.

## **6- RECOMMENDATIONS:**

1- The research study recommends focusing on the intellectual design horizons with mental perceptions, this is done by informing the designer of the latest ranges of the designing dimension, to allow him wide areas in the implementation of innovative designs and their diverse reflection the technical level in the interior design of contemporary museums.

2- The research study recommends the need to study the detailed achievements at the level of the design dimension, through the diverse technical reflections that this dimension shows with the aim of providing an intellectual design base through which the design vision is presented, as a message to be delivered by the designer to achieve communication with the recipient.

## **7- Future proposals:**

1- Emphasis on studying: The technical horizon and its creative impact on the levels of internal determinants of the National Museum of Qatar (as a case study as a model).

2- Emphasis on the study of: The designing pattern and its aesthetic reflections on the identity of the interior spaces of the Qatar National Museum (as a case study as a model).

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