Interior Designing App using AR (Augmented Reality)

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Abstract:- Augmented reality in its current form is quite helpful in various ways, It has various applications in productivity, travelling, driving, gaming and interior designing. Thus by using AR concept for interior designing could be more productive and less time consuming with better immersive experience.

Keywords:- Augmented Reality, Interior Designing, 3d models, Furniture.

I. INTRODUCTION

Augmented reality is a concept where it drapes an image generated by computer on user's view of the real word, thus providing a composite view, It can allow users to view objects in a three dimension format without physically having the object. It will thus help a given user make better decision, save time and also save resources. Due to this nature of augmented reality it has a greater applicability in the interior designing field. Thus by using real time tracking and simulate the placement of furniture which has a wide commercial use.

II. AR IN INTERIOR DESIGNING

The three dimensional feature of augmented reality is perfectly suited for the purpose of an interiors designing. Generally the planner has to place different furniture in the given space to check whether the given furniture fits and is according to the users liking, which indeed could be a challenging task in itself demanding a lot of time and effort. Thus to avoid all this user can simply use the app to place the furniture virtually and view it in directions via their smart phone. It will save user their time and energy and prove to be rather convenient and easy to use.

III. FEATURES OF THE APP

A. .Easy UI

It is an easy to use app without complex UI, It has been designed with the concept of simplicity as per the convenience to the user.

B. Wide variety

It has a wide variety of furniture to choose from thus giving the user a range of options to choose from as per their liking and select it accordingly.

C. Better tracking

It has a better real time tracking of the environment thus scanning the area before placing the furniture for better accurate placement of the furniture. Poonam Vengurlekar Guide, Department of Computer Engineering in Diploma Thakur Polytechnic Mumbai, India

a) Advantages Of The App

• Simple to use

The app has been designed in a such way that it has a simple UI and a very simplistic approach towards the design of the app making it easy for the users without complicating it.

• Saves Time

It's just a click away from previewing your desired furniture without spending too much time.

• Interactive idea presentation

It would be easier for designers to present their innovative ideas to prospective clients.

• Profitability

Ar visualization help the clients to make better and quick decisions increasing the probability of closing the deal faster and successfully

• Increased customer retention rate

The interior designing app will not only attract new clients but also retains the old customers.

b) Disadvantages Of The App

• Not available on all devices

Thus the app has been developed for android version 5 or above and thus it cannot work on the older devices or the devices who lack ar core

• Low performance level

Thus on few devices with old/slow cpus can find it difficult to run the application without any lags or glitches leading to a low performance level

• Battery Intensive

AR processing requires a lot of computing power and thus can lead to battery drainage if used for a longer period of time.

VI. DIAGRAM TO ILLUSTRATE THE WORKING OF THE APP

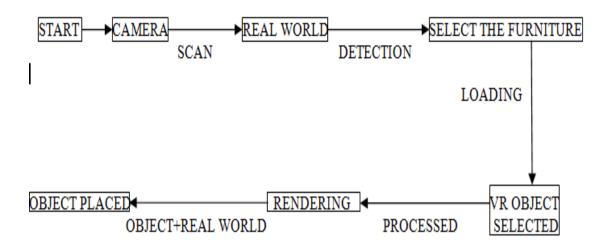


Fig. 1

IV. OUTCOME

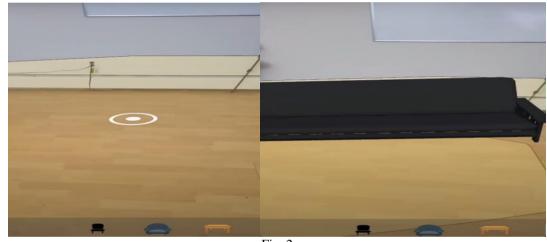


Fig. 2

V. CONCLUSION

In this study we explain as to how the app works , its Features ,advantages and disadvantages and how AR Plays an important role in the interior designing Industry and thus has a huge potential. Even tho AR Being raletively new it has many application which

Have been benefical and fruitful just like this Interior Desining app.

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