Interior Décor using Augmented Reality

Azim Ahmed Bijapur[1], Khan Arkaan[2], Shaikh Abuzar[3], Bhabal Rohan[4]

Students, B.E. Department of Computer Engineering[1,2,3,4]

M. H. Saboo Siddik College of Engineering, Mumbai, Maharashtra, India

Abstract: *Augmented reality helps us to visualize computer-generated content in our physical space. Often, when you buy furniture or any other decorative item, you regret that purchase as it did not suit your home space. The inability to place that object in your home space before buying it, probably due to the size of the furniture or some other reasons renders this problem. Augmented reality can help to solve this problem. Using AR one can view 3d models of furniture in their home or office environments and purchase them accordingly. This can help businesses to reduce the return rate, and increase order and cart conversion rates of the products thereby improving customer experience and benefiting the retailers.*

Keywords: Web-based AR, Markerless AR, Model viewer web component, WebXR Device API.

REFERENCES

[1]. Overview of ARCore and supported development environments. (n.d.). Google Developers. https://developers.google.com/ar/develop

[2]. Immersive Web Developer Home. (n.d.). https://immersiveweb.dev/

[3]. Augmented reality with model-viewer. (n.d.). Google Developers. https://developers.google.com/ar/develop/webxr/model-viewer

[4]. Corporation, M. (n.d.). What is Augmented Reality (AR) | Microsoft Dynamics 365. https://dynamics.microsoft.com/en-us/mixed-reality/guides/what-is-augmented-reality-ar/

[5]. The ROI on AR: How Augmented Reality Is Boosting Ecommerce Sales. (2022, April 29). Shopify. https://www.shopify.com/blog/ar-shopping

[6]. Omniaz.io. (n.d.). https://www.omniaz.io/news/top-10-augmented-reality-use-cases-in-the-furniture-industry-in-2021

[7]. H. (2021, May 20). Augmented Reality (AR) in Interior Designing. Queppelin. https://www.queppelin.com/augmented-reality-ar-in-interior-designing/

[8]. J. Hui, "Approach to the Interior Design Using Augmented Reality Technology," 2015 Sixth International Conference on Intelligent Systems Design and Engineering Applications (ISDEA), Guiyang, China, 2015, pp. 163-166, doi: 10.1109/ISDEA.2015.50.

BIOGRAPHY

- Azim Ahmed Bijapur, B.E Computer Engineering [Third Year], M.H.Saboo Siddik College of Engineering, University of Mumbai[CGPI – 9.44]

- Khan Arkaan, B.E Computer Engineering [Third Year], M. H. Saboo Siddik College of Engineering, University of Mumbai [CGPI – 8.43]

- Bhabal Rohan, B.E Computer Engineering [Third Year], M. H. Saboo Siddik College of Engineering, University of Mumbai [CGPI – 8.81]

- Shaikh Abuzar, B.E Computer Engineering [Third Year], M. H. Saboo Siddik College of Engineering, University of Mumbai [CGPI – 8.73]