

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511100945 A

(19) INDIA

(22) Date of filing of Application :17/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : A VIRTUAL REALITY FRAMEWORK FOR SMART ARCHITECTURAL DESIGN TESTING

(51) International classification	:G06F0011360000, G06F0030130000, G06F0003010000, G06F0030200000, G06T0019000000	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANKUR CHAUDHARY
(33) Name of priority country	:NA	2)SHALINI SHROTRIYA
(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a Virtual Reality Framework (100) for Smart Architectural Design Testing, comprising a design data import module (110), VR simulation engine (120), environmental simulation module (130), interaction interface (140), testing tools (150), collaboration module (160), and analytics module (170). The system enables immersive visualization, real-time testing, and multi-user collaboration, ensuring design compliance and reducing costly errors before construction.

No. of Pages : 15 No. of Claims : 6