



Xi'an Jiaotong-Liverpool University

西交利物浦大学

CPT208 Portfolio Group Proposal

Home-Agent VR: AN AI-Agent VR Apartment Viewing System for University Campus Vicinity

Module: CPT208 Human-Centric Computing

Group ID: Group B4

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Home-Agent VR: AN AI-Agent VR Apartment Viewing System for University Campus Vicinity

With the increasing demand for exploring housing options near university campuses, we propose the development of an AI-driven Virtual Reality (VR) apartment viewing system aimed at substituting the process of apartment viewing in the vicinity of campuses with VR technology . The primary stakeholders of this system include prospective university students and their families, real estate agents, and property owners near university campuses.

Existing systems face challenges such as a lack of immersive and interactive platforms for remote exploration and reliance on traditional methods for accessing property information. To address these issues, the new system will support real-time interactive virtual apartment tours facilitated by VR technology. Users will also benefit from natural language communication with AI agents, enabling personalized queries and more personal exploration processes.

In conclusion, the proposed AI-Agent VR apartment viewing system offers a transformative solution to the challenges faced by individuals seeking housing near university campuses. By leveraging VR technology and AI agents, we aim to provide an immersive and interactive experience for users while offering a novel platform for real estate agents and property owners to showcase their listings.

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