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(57) Abstract :

The proposed system offers a dynamic and user-centric communication platform with a variety of components that enhance the overall communication experience. The communication platform serves as the core, allowing users to create, join, and participate in different communication channels while dynamically changing channel properties during social interactions. The User device (102) provides a user-friendly interface for managing channels, while the Property Management Tools and Interfaces (116) empower users to view, edit, and customize properties. The Real-Time Communication Components (110) ensure instant updates to all participants when property changes occur. Additionally, the system includes search and filter tools for users to find and join channels matching their interests, while file and media sharing features facilitate efficient knowledge-sharing. The architecture incorporates robust security measures, redundancy, and scalability to safeguard user data and ensure high availability.

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