



Course Name: Mobile Computing for Modern App Development

Course Code: ITA0306

Q: Peer to Peer Interactions

Implementing peer-to-peer inter...	Reliable Connection Handling	Data Synchronization and Consistency	Security and Encryption
<p>← Implementing peer-to-peer interactions in real-time in a mobile app</p> <p>Reliable Connection Handling</p> <p>Data Synchronization and Consistency</p> <p>Security and Encryption</p> <p>User Experience Design (UX)</p> <p>Scalability and Performance Optimization</p>	<p>←</p> <p>Reliable Connection Handling</p> <ul style="list-style-type: none"> Implement a robust connection handling mechanism to deal with scenarios such as device disconnections, network fluctuations, or interruptions Ensures a seamless and reliable real-time experience by addressing common challenges in peer-to-peer networking 	<p>←</p> <p>Data Synchronization and Consistency</p> <ul style="list-style-type: none"> Develop a strategy for synchronizing data between connected devices to maintain consistency across the network. Guarantees that changes made on one device are promptly reflected on all connected devices, supporting collaborative and synchronized interactions. 	<p>←</p> <p>Security and Encryption</p> <ul style="list-style-type: none"> Prioritize security by implementing encryption mechanisms for data transmitted between devices. Protects sensitive information from unauthorized access, ensuring the privacy and security of user data during peer-to-peer interactions.

User Experience Design (UX)	Scalability and Performance Optimiz...
<p>User Experience Design (UX)</p> <ul style="list-style-type: none"> Design an intuitive and user-friendly interface that clearly conveys the status of peer-to-peer interactions and provides users with easy-to-understand controls. Enhances user engagement and satisfaction by offer 	<p>Scalability and Performance Optimization</p> <ul style="list-style-type: none"> Optimize the system for performance and scalability to handle an increasing number of connected peers efficiently. Ensures the app remains responsive and reliable even as the user base and the number of simultaneous interactions grow.

