Swimlane Activity Diagram

User	Mesh Node App	Gateway Node	Cloud Backend (AWS/Azure)
● Launch App → Compose and Send Message	Check Nearby Peers → Peer Found? (Yes → Send Message via Mesh / No → Store Message Locally) → Internet Available? (No → Continue Mesh Mode / Yes) → Deliver to Destination Node	Sync Stored Messages with Cloud (Upload/Download) → Distribute New Messages to Mesh Network	Receive / Store / Retrieve Messages → Sync with Cloud Database
Receive and View Message → ◉			