



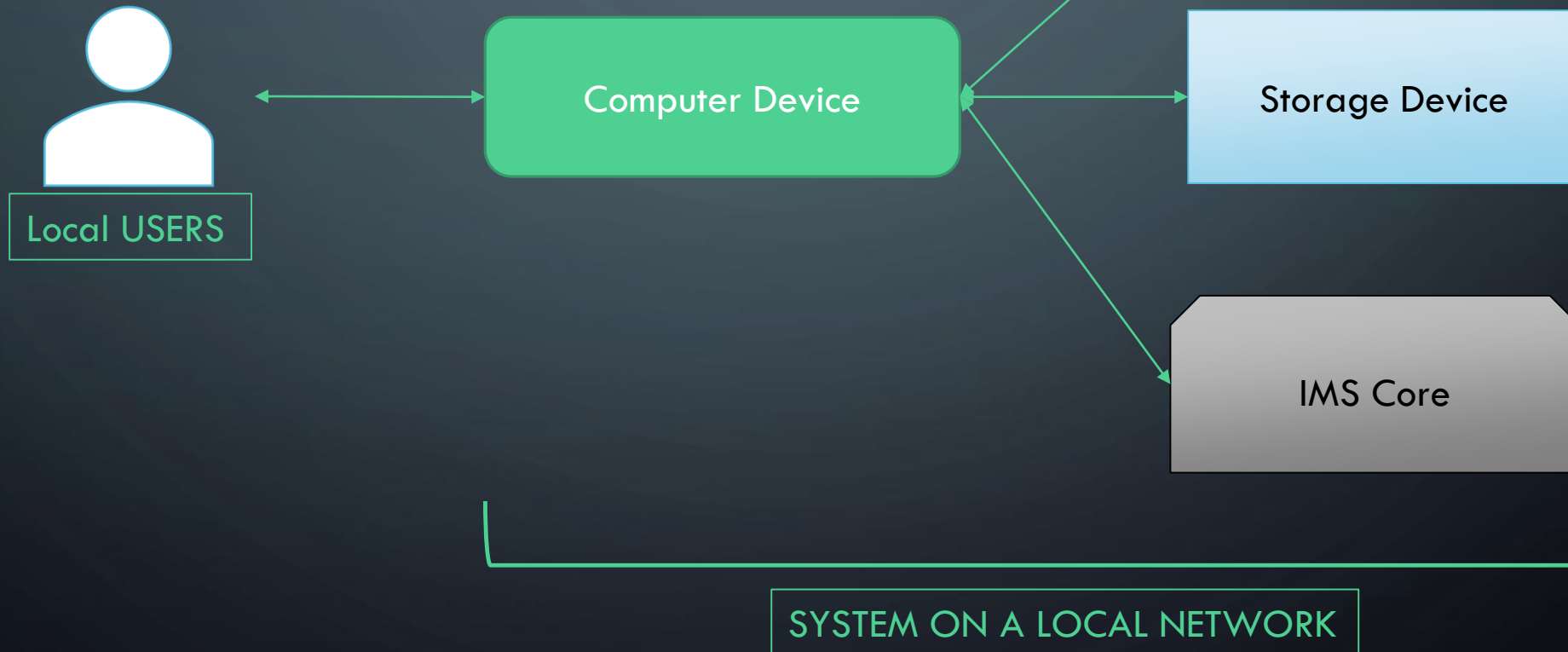
INTEGRATED LOCAL IP MULTIMEDIA SUBSYSTEM FOR HOME ENVIRONMENT

MOISE BAUMA - 087893

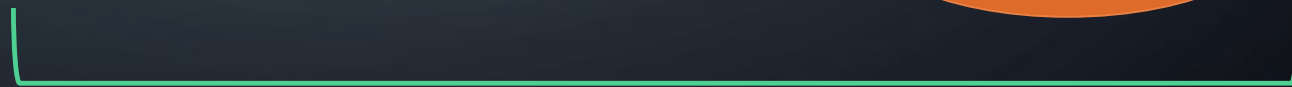
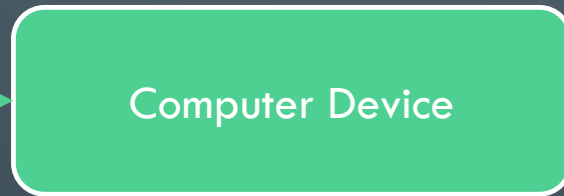
CONCEPT NOTE

- The idea of this project is to design and to build a local IMS system that integrate GSM capabilities, like making calls, receiving call and Short Messages Services.
- This proposed system will have a local storage that will be share among users and an integrated local IP Multimedia System, that will provide video call, instant message and VoIP to the users, who are within the local network.

DESIGN



SERVICES



SYSTEM ON A LOCAL NETWORK

JUSTIFICATION (WHY?)

- Communication and sharing of information have been key to almost everything, from a small group of people to big companies. At same time it becomes very difficult and expensive to communicate and share data, for a group of people or small businesses
- This system will be of great benefit to family and other persons living or staying together.
- A user can just call the system if not sure about who is in the house and the call will be sent to everyone who is connected to the local network (IMS).
- No need to wait or around with the storage device, just connect the device to local network

COMPONENTS

Computer device (Raspberry Pi)



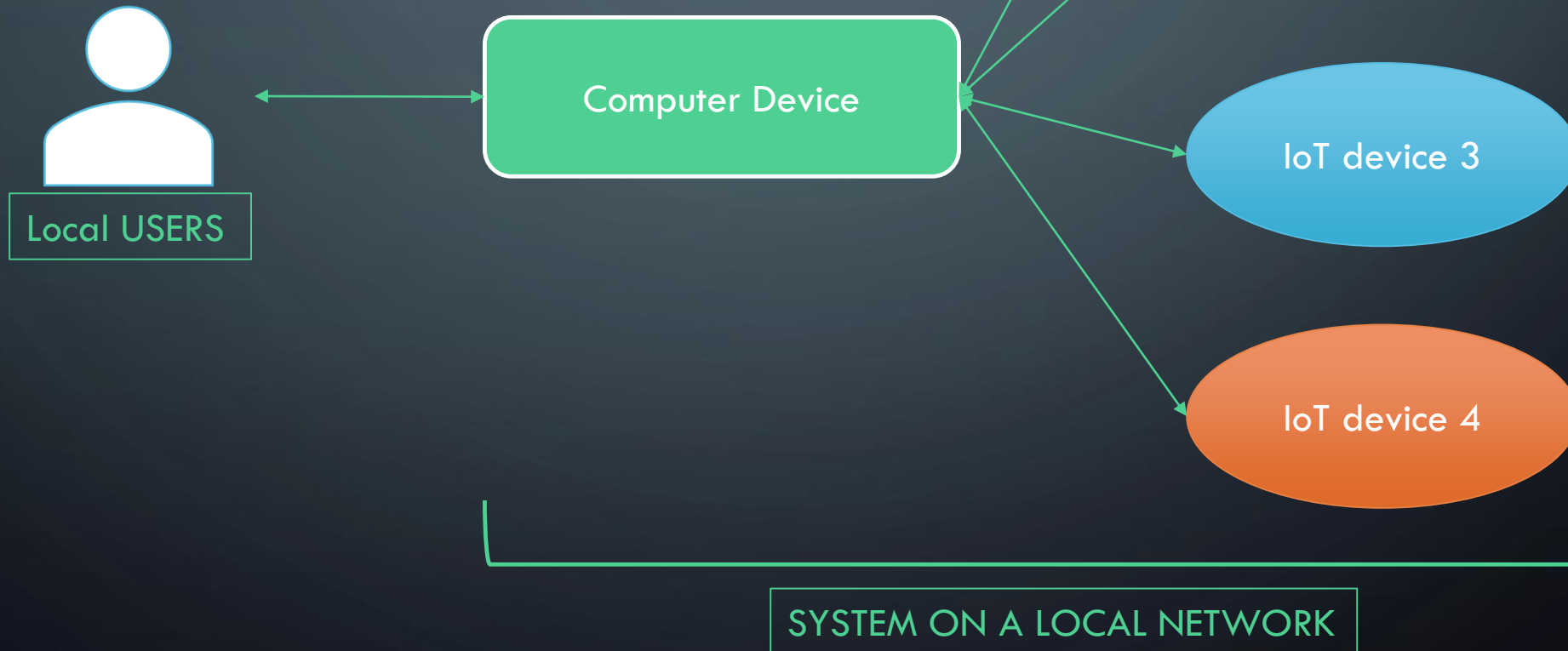
GSM Module



Storage devices



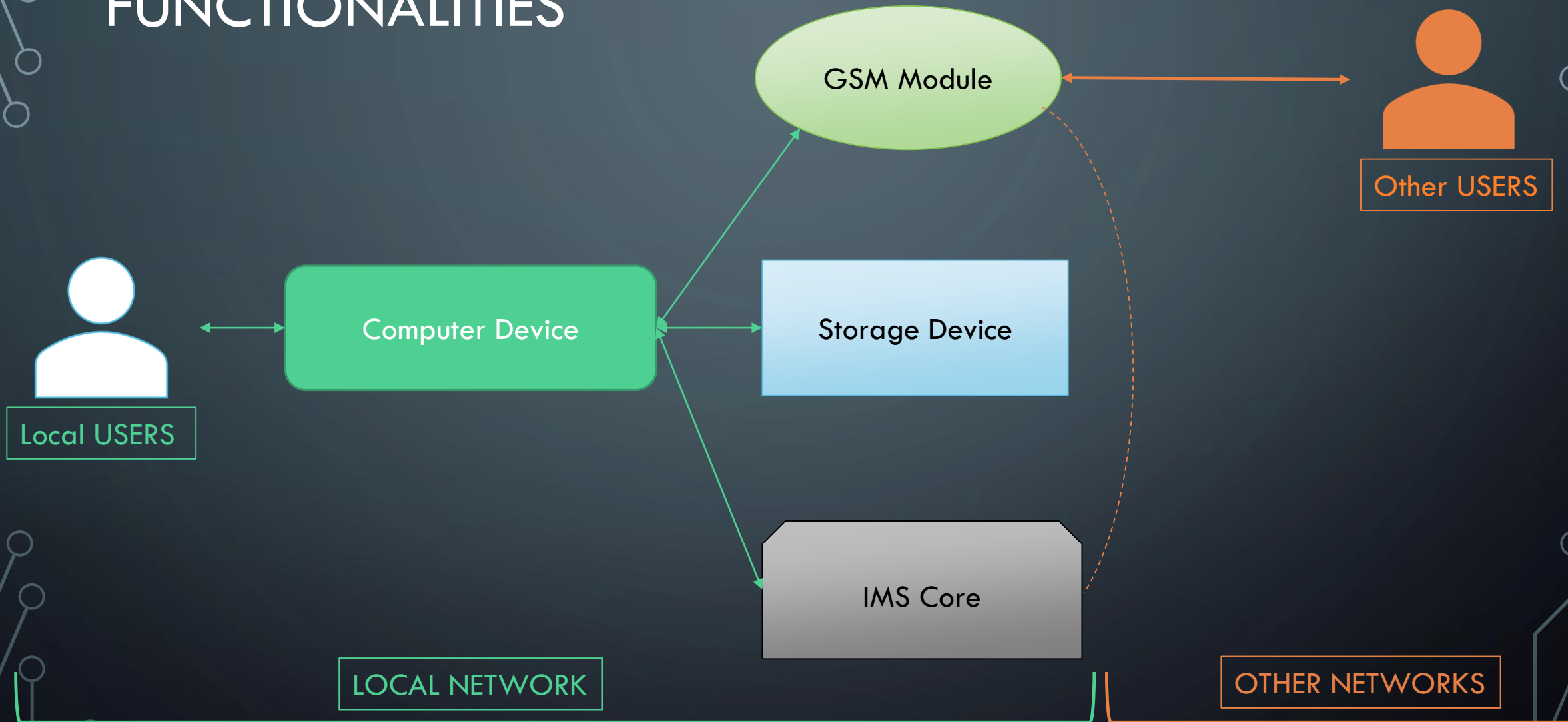
INTERNET OF THINGS (IOT)



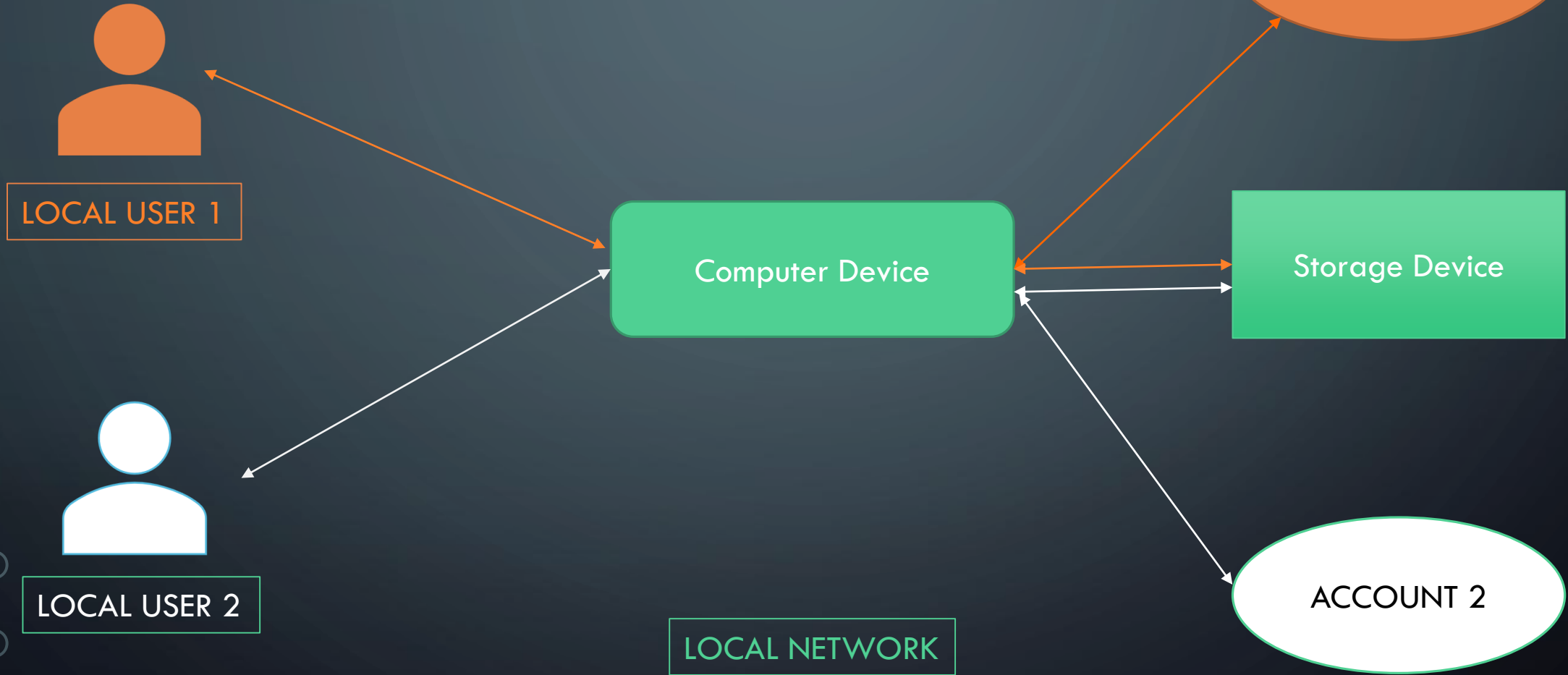
FUNCTIONALITIES

- The user will be able to call or text other users within the local network.
- A User who is within the local network can make GSM calls through the IMS local system.
- The user will be able to share file or document using the local IMS or by coping it to the local storage.
- A user who is out of the local network can make a GSM call to the system and it will be transmitted to all the user connected to the local network.
- The users can access the local storage. Storage device will be only accessible within the local network

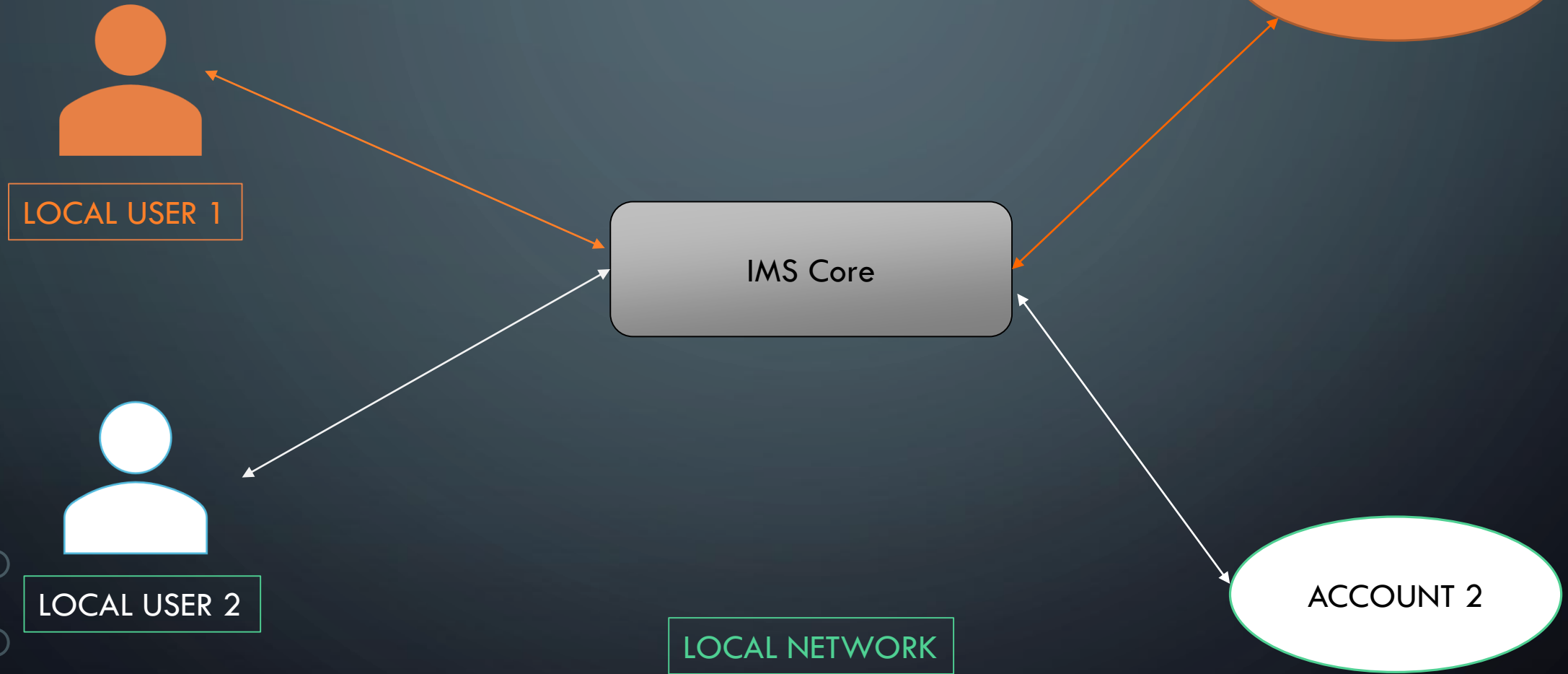
FUNCTIONALITIES



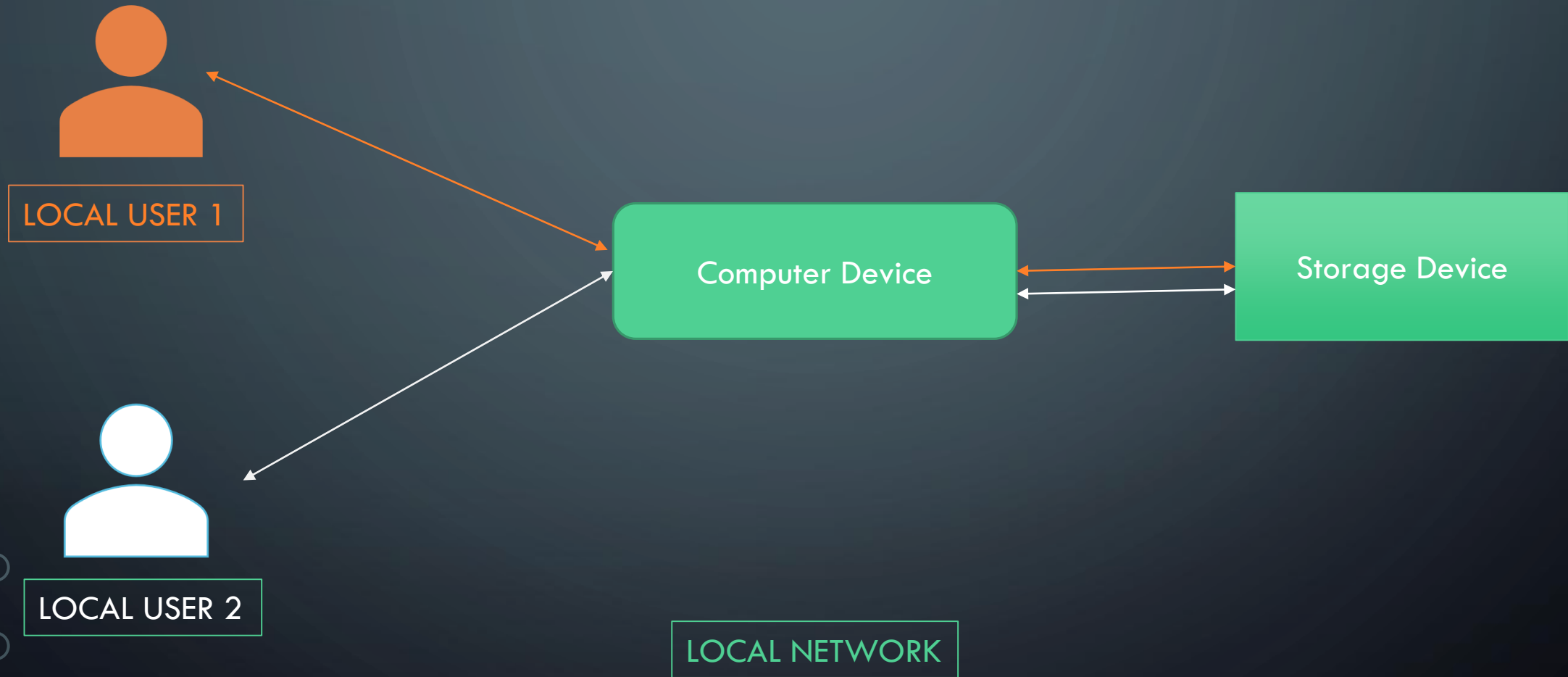
PRIVACY (COMPUTER)



PRIVACY (IMS)



LIMITATION (STORAGE)



The background is a dark blue gradient. In the four corners, there are white, stylized circuit board traces. These traces consist of straight lines of varying lengths and angles, ending in small white circles, resembling electronic components or nodes on a circuit.

THE END

THANKS FOR YOUR TIME AND ATTENTION