UO-TECH

SKYTRAC Hack-a-thon

ABBREVIATIONS

LCP: Link Control Protocol

PPP: Point-to-Point Protocol

AP: Authentication Protocol

NCP: Network Control Protocol

Systemd: System Deamon

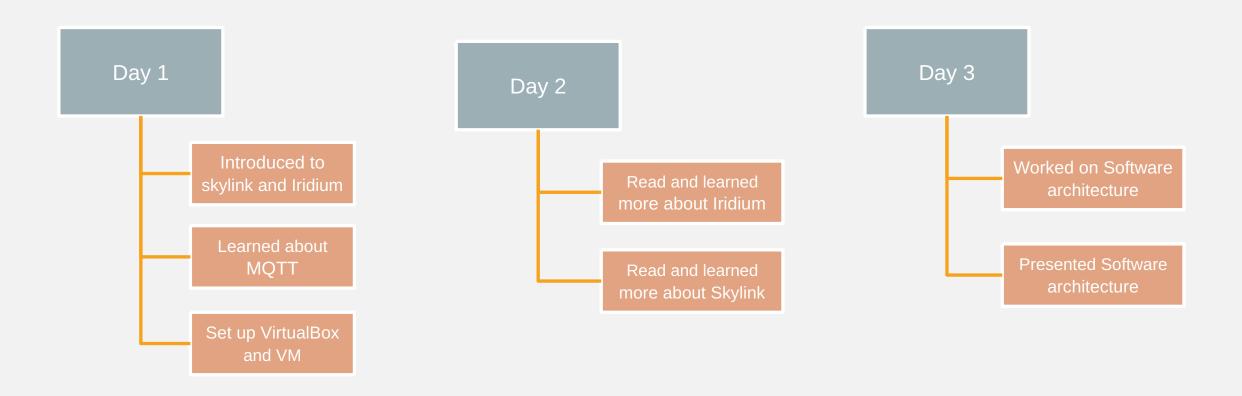
LTE: Long Term Evolution

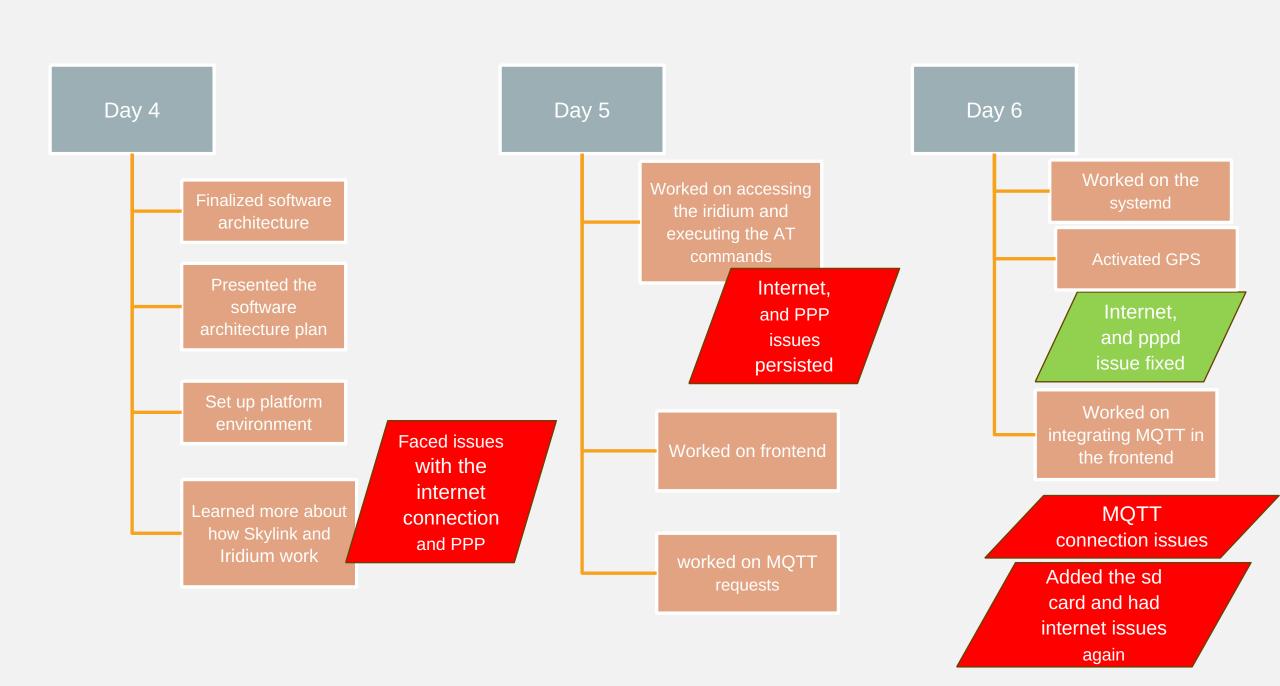
REST: Representative State Transfer

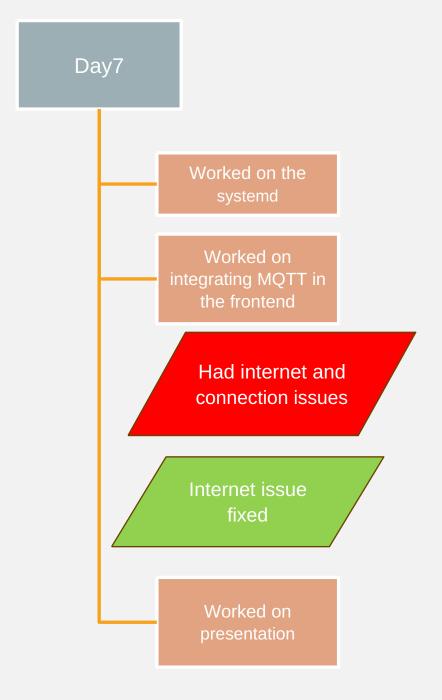
JSPR: JSON-based Serial Protocol for REST

LCR: Least Cost Rounting

OUR JOURNEY







CORE COMPONENTS OF THE IMPLEMENTED SOFTWARE

Daemon/Modem Manager

- Initiate the system
- Runs and monitor other components

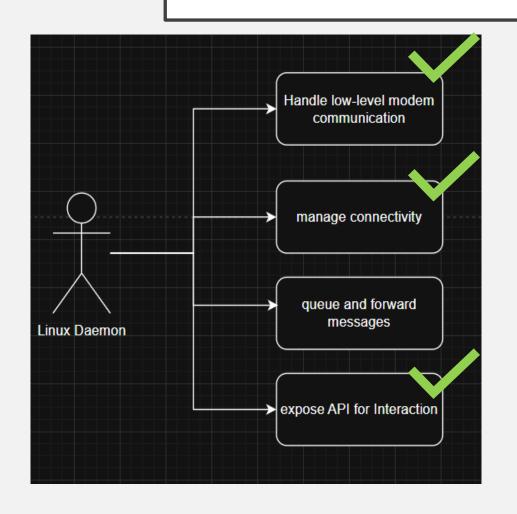
Network Request Handler

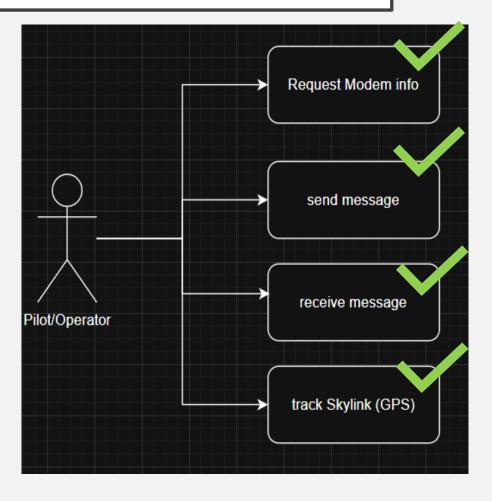
- Uses MQTT
- Handles data transmission
- Reads responses and processes them
- Uses sockets for network communication

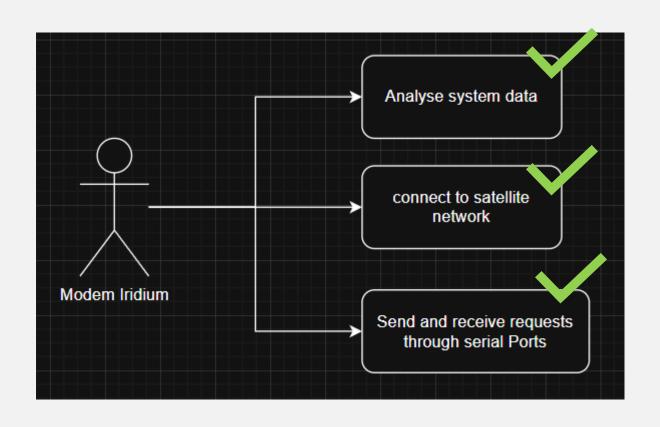
Serial Communication Handler

- Reads responses from the modem
- Manages timeouts and retries

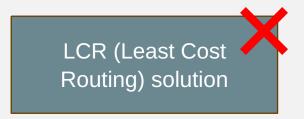
USE CASES







IMPORTANT INFO



V1 CHECKLIST

Full-stack website

Linux daemon

Communication set up between the website and the daemon

Linux-based system embedded into Iridium through Ethernet

System works independently

V2 CHECKLIST

VoIP (voice over IP)

GPS