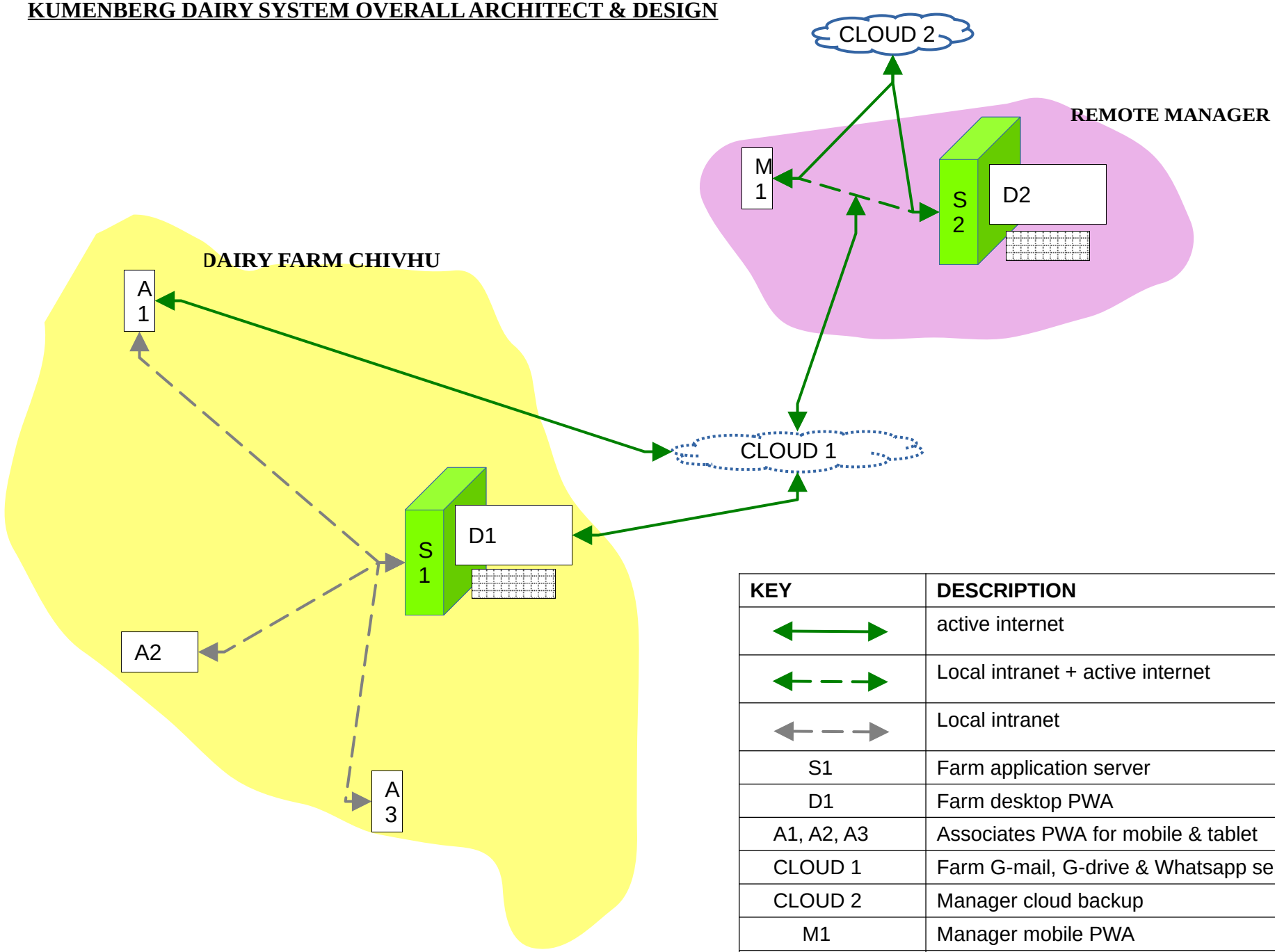
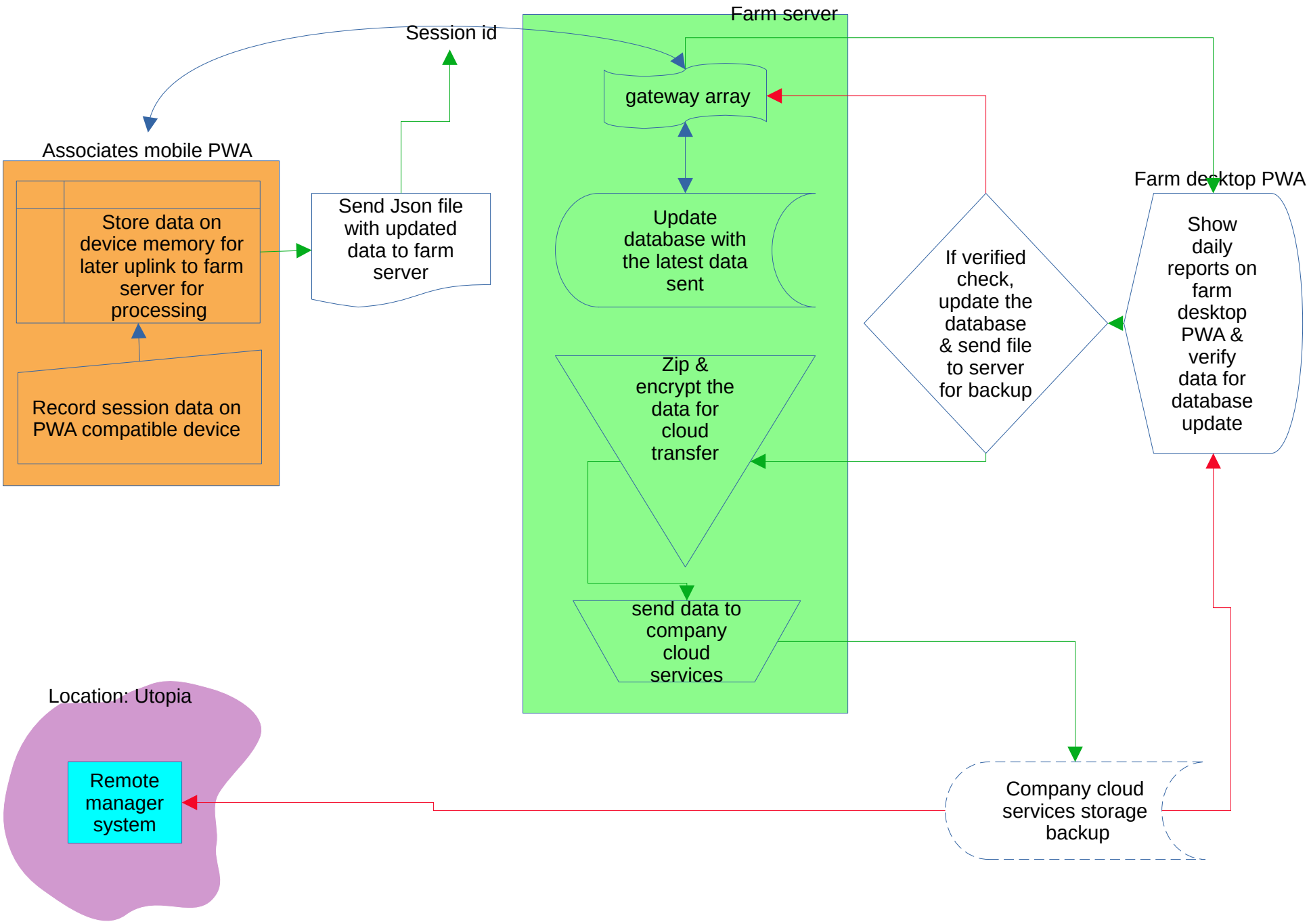
KUMENBERG DAIRY SYSTEM OVERALL ARCHITECT & DESIGN

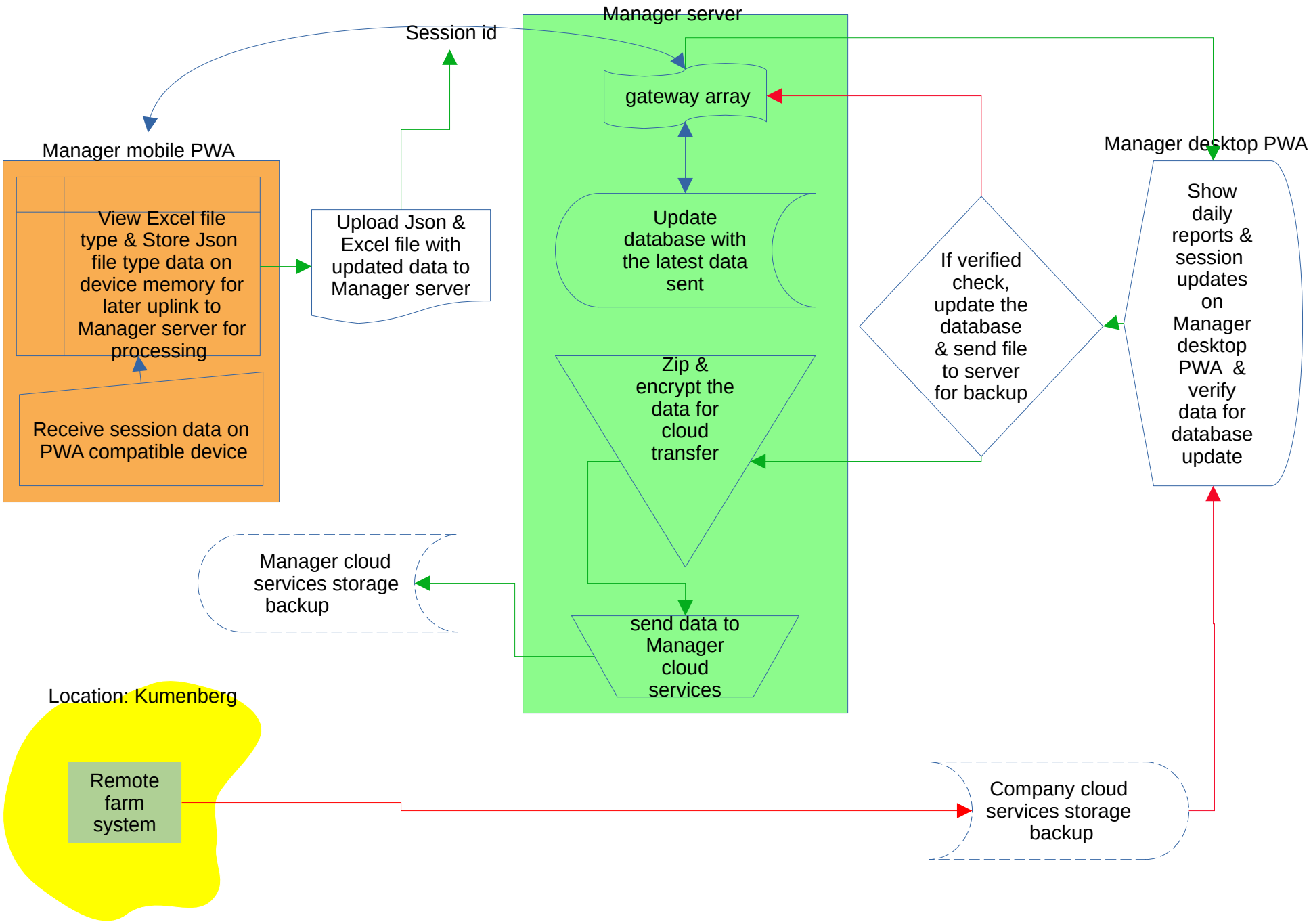


KEY	DESCRIPTION
⟷	active internet
⟷	Local intranet + active internet
⟷	Local intranet
S1	Farm application server
D1	Farm desktop PWA
A1, A2, A3	Associates PWA for mobile & tablet
CLOUD 1	Farm G-mail, G-drive & Whatsapp service
CLOUD 2	Manager cloud backup
M1	Manager mobile PWA
S2	Manager application server
D2	Manager desktop PWA

FARM SYSTEM LOGIC FLOW



MANAGER SYSTEM LOGIC FLOW



PROCESSING

- **Data processing management**
  1) **Gateway Array:**
     - **Farm Uplink module**
       - Uploads data on local network & manages synchronization & verification of data upload on local server with PWA device for data integrity
       - Zip data for upload to company google cloud account

STORAGE

- **User data management**
  - **Auth module**
    - Fingerprint database
    - Access log
    - Session id

- **Dairy data management**
  - **Health module database**
  - **Delivery module database**
  - **Herd module database**
  - **Production module database**

OUTPUT

DAIRY SYSTEM HARDWARE & SOFTWARE REQUIREMENTS

HARDWARE

- **Mobile phone**
  - Android version >= 8.0.0
  - Biometic sensor (optional)

- **Desktop computer x2**
  - >= Core i5
  - >= 8Gb RAM
  - >= 1 Terabyte SSD
  - >= 10m NIC

- **Hotspot & Network Extenders**
  - >= 10m range
  - >= 20 users

SOFTWARE

- Farm PWA compatible on Mobile & Desktop platforms
- Farm application server
- Farm email account & cloud storage

- Manager PWA compatible on Mobile & Desktop platforms
- Manager application server
- Manager email account & cloud storage