Main Components

- **Web page**
- **KNLP** — Natural Language Processing
- **KCP** — Command Processor
- **KCM** — Communication Module
- **KDP** — Data Processor
- **KLDB** — Logging & DB
- **RabbitMQ**

Connection labels:
- Command info / For logging
- Voice data
- Translated command
- Command
- Flask
- Web user response
- Logging info
- DB data
- Service specific command
- All services data

DB Schema

KServiceResponse
- responseID
- timestamp
- eventID
- responseData

KServiceStatus
- serviceID
- serviceType
- lastHeartbeat

KUsersData
- userID
- userType
- kUsername
- kPassword
- emailUsername
- emailPassword

KEventsData
- eventID
- timestamp
- targetService
- commandID

KNlpStatus
- nlpRequestID
- inputData
- isCommandFound
- probabilityPercentage
- commandID

KServiceConfig
- configID
- timestamp
- configData (Json)

KCommandMap
- commandID
- commandInfo

KAlarmTriggers
- triggerID
- serviceType
- triggerData
- action

KServiceSpecificsData
- serviceType
- data (Json)

Devices services:

KIRC - IR Controller
KRC - Radio Controller
KWD - Water Detection
KSD - Smoke Detection
KMD - Motion Detection
KVL - Voice Loud
KSR - Sound Recorder
KVS - Video Streamer
KML - Machine Learning
KMLA - Machine Learning Advanced
KPUC - Power Unit Controller
KMC - Mobile Controller
KSS - Sound system

Server services:

KNLP - Natural language processing
KCP - Commands Processor
KCM - Communication Module
KDP - Data Processing
KLDB - Logging & DB

Device service boxes

- **KIRC** — IR Controller
- **KRC** — Radio Controller
- **KWD** — Water Detection
- **KSD** — Smoke Detection
- **KMD** — Motion Detection
- **KPC** — Phone Call
- **KSR** — Sound Recorder & Recognition
- **KVS**
- **KML**
- **KMLA**
- **KPUC**
- **KMC**
- **KSS**

Per-device connection labels (repeated): Service Specifics DB-data, [service] command, [service] Response