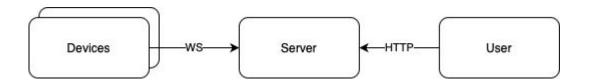
Server and device interaction

LEGO IIoT interview

and acvice interaction

Central server

- User interacts with server
- Devices connect to the server
 - Devices shouldn't and can't expose themselves on the network



Server API

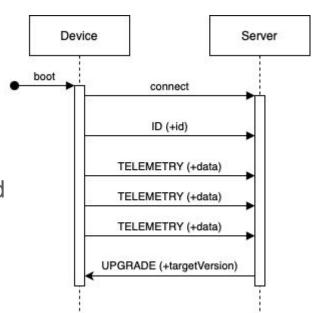
Express based HTTP API for managing IIoT devices

- GET /devices
 - Returns list of connected devices along with the latest telemetry data
- POST /devices/:id/upgrade
 - Send command to specific device to self-upgrade to targetVersion

Device communication

WebSocket based for fast two way communication

- ID Device identifies itself to the server
- TELEMETRY Device periodically sends telemetry data to the server
- UPGRADE Server tells a specific device to upgrad to a targetVersion



Potential improvements

- Database for persisting state
- Authorization and authentication
- OpenAPI input/output validation and documentation
- MQTT for commands and events instead of WebSockets
- Logging and tracing for monitoring server
- Tests unit / integration / e2e