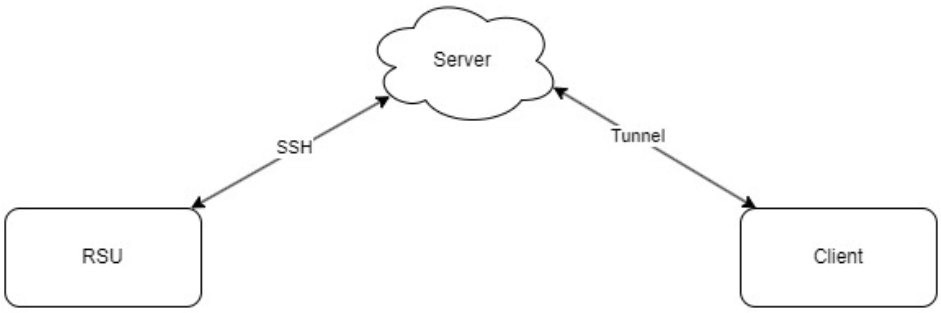
Project Report: CBR3A – UB Site

Activity 1

Making remote access for IoT gateway

Design



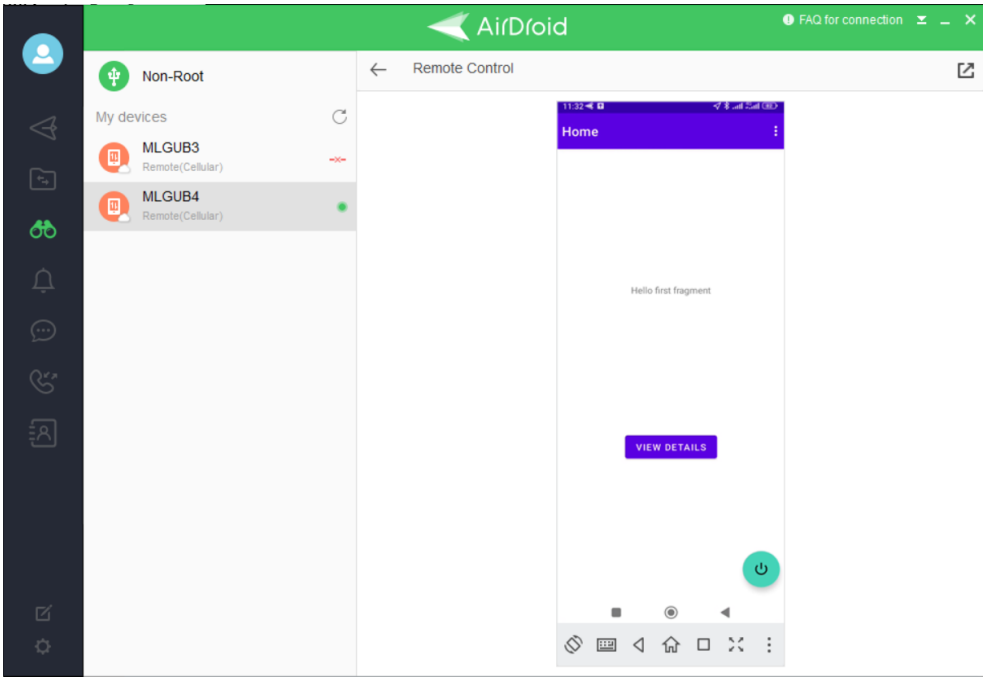
For Android devices, remote access is managed using the AirDroid app. AirDroid provides an intuitive interface for remotely accessing and managing Android devices. It connects directly to the internet, allowing clients to control devices without a dedicated server. AirDroid simplifies file management, messaging, and device operation from another computer or smartphone, ensuring easy and secure access.

Method

To implement remote access for Android smartphones, the AirDroid application was utilized. This app, available on the Google Play Store, enables users to manage and control Android devices from other devices, such as laptops or smartphones, without requiring physical proximity. AirDroid simplifies

device management and monitoring, making it an efficient solution for systems that involve connected devices.

Implementation



The implementation process began with downloading and installing AirDroid from the Google Play Store. After installation, the app was launched, and the user logged in using their AirDroid account credentials. Following successful login, the AirDroid Control Add-On was installed to enable full remote control capabilities without requiring root access on the Android device.

Next, the app's settings were configured to activate the remote control feature. The "require confirmation" option was disabled to ensure seamless connectivity without interruptions. Additionally, all permissions requested by AirDroid were granted to enable full functionality of the remote control feature.

Experiment

Once the configuration was complete, the Android device could be accessed and controlled remotely using AirDroid. This setup was tested for efficiency and reliability in managing devices deployed in the field. The system successfully allowed users to monitor and control Android devices without physical interaction, ensuring smooth operation and improved management of connected systems.