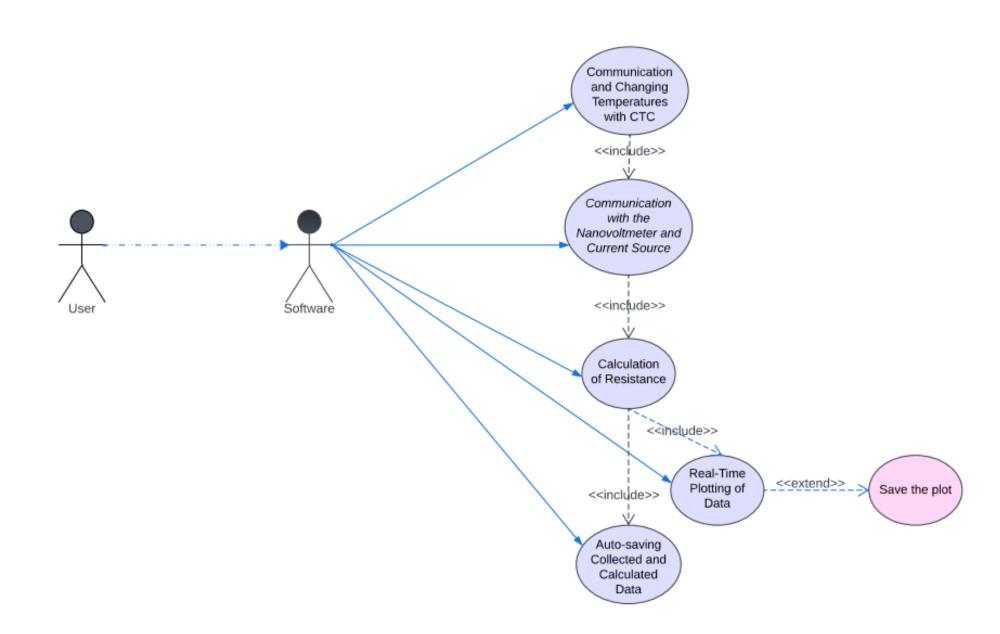
AUTOMATION OF RESISTANCE MEASUREMENT DESIGN ARTEFACTS

11-02-2024

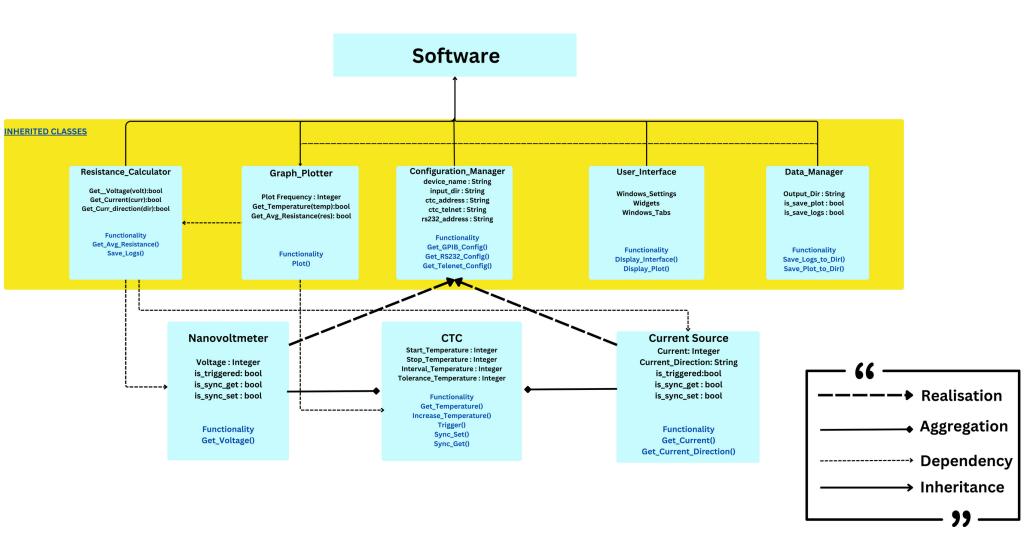
GROUP C

Sai Pranay Deep Saket Meshram Aditi Wekhande Devanshi Chhatbar Jay Solanki

USE-CASE DIAGRAM

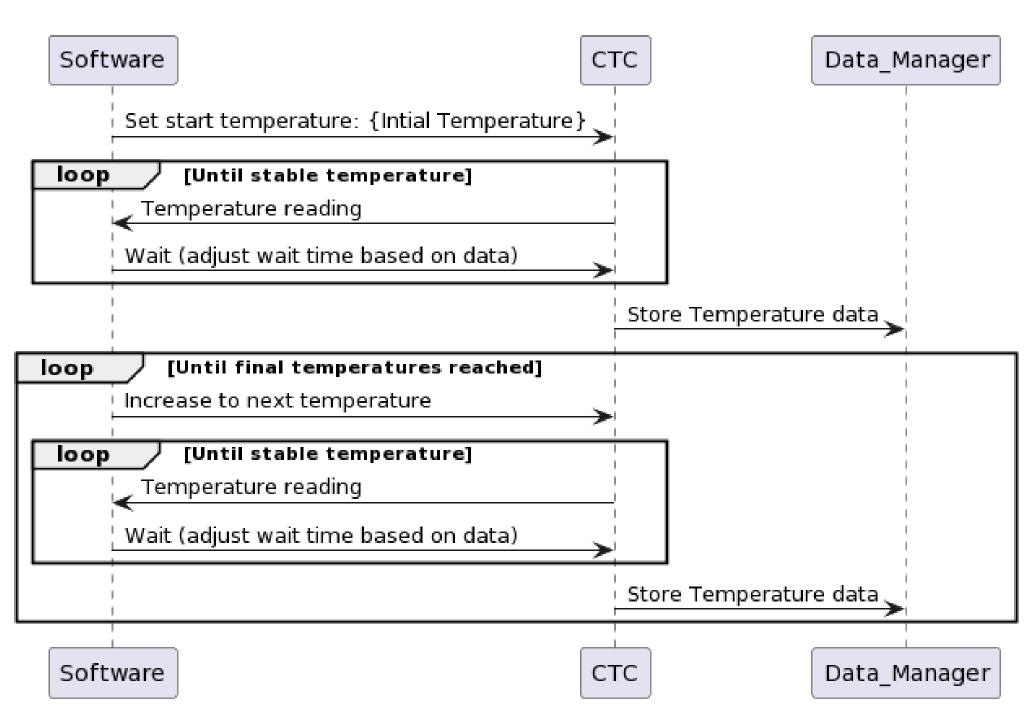


CLASS DIAGRAM

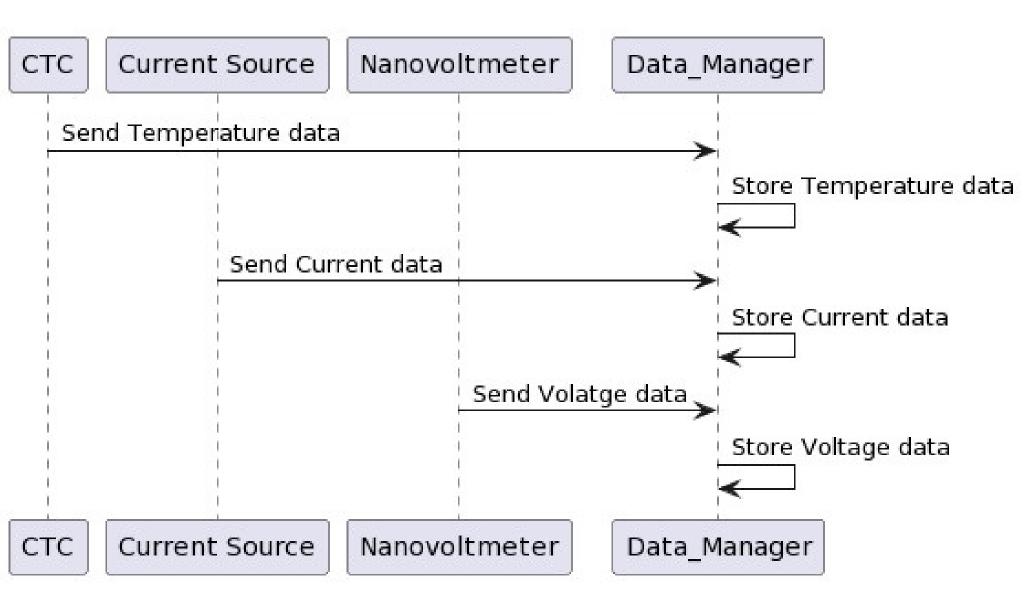


SEQUENCE DIAGRAMS

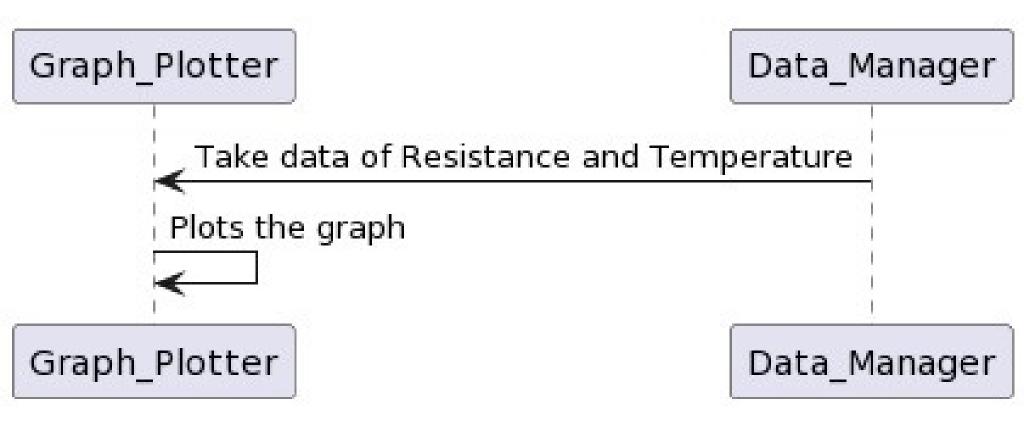
Communication with CTC



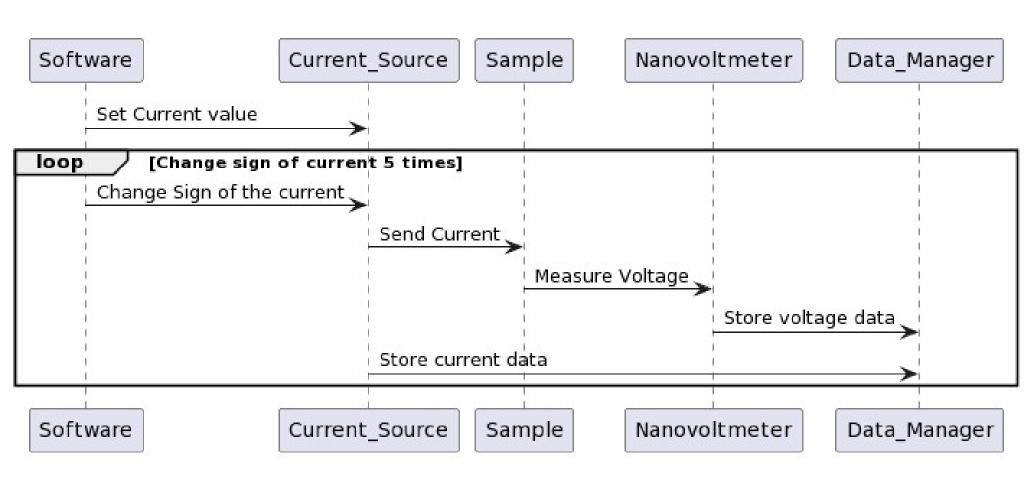
Auto Saving Data



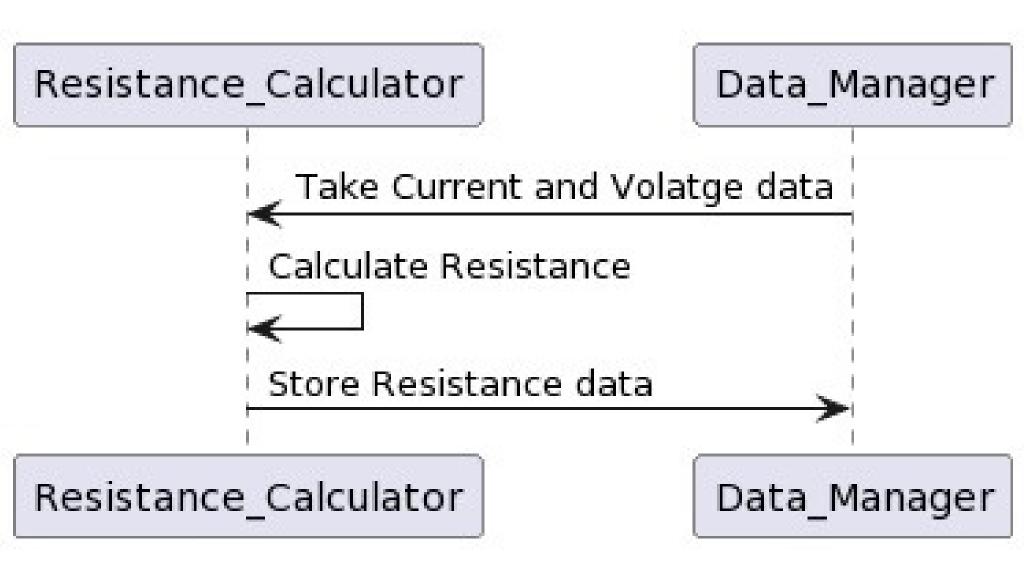
Real time plotting of Data



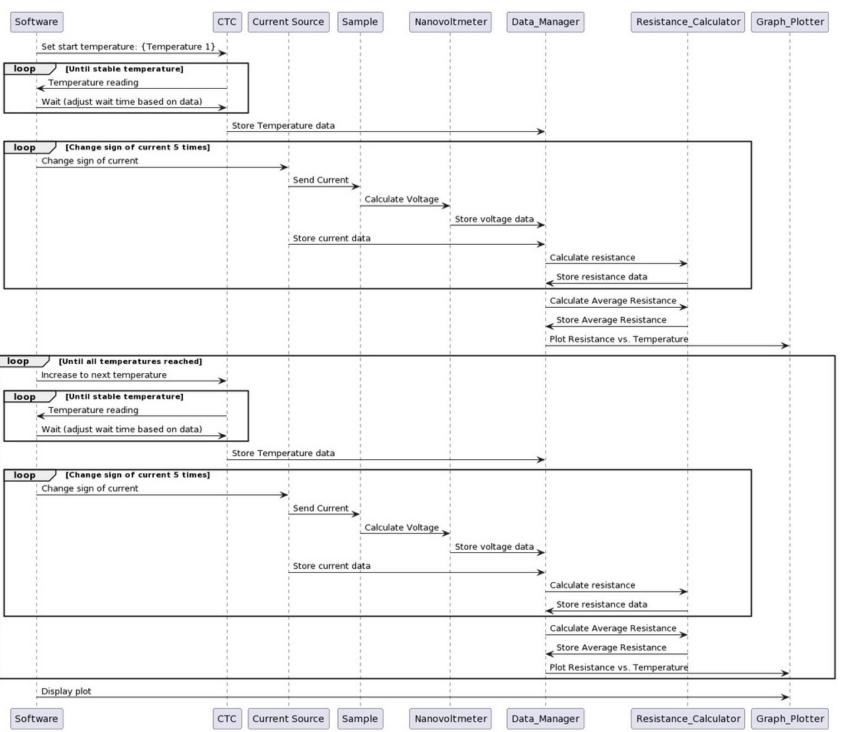
Communication with NanoVoltmeter and Current Source



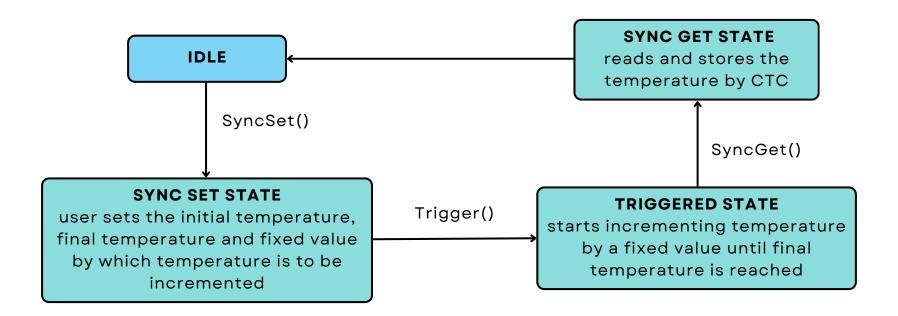
Calculation of Resistance



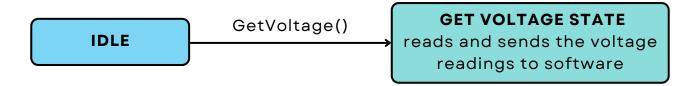
WorkFlow



STATE CHART DIAGRAMS



Nano-voltmeter



Current Source SET CURRENT POLARITY STATE software sets the polarity (+ve or -ve) of input value of current **SET CURRENT STATE** SetCurrentPolarity() software sets the input value of current SetCurrent() **IDLE ACTIVE** GetCurrent() **GET CURRENT STATE** software reads the current Trigger() value from source and stores it

TRIGGERED STATE current starts flowing from source to sample

