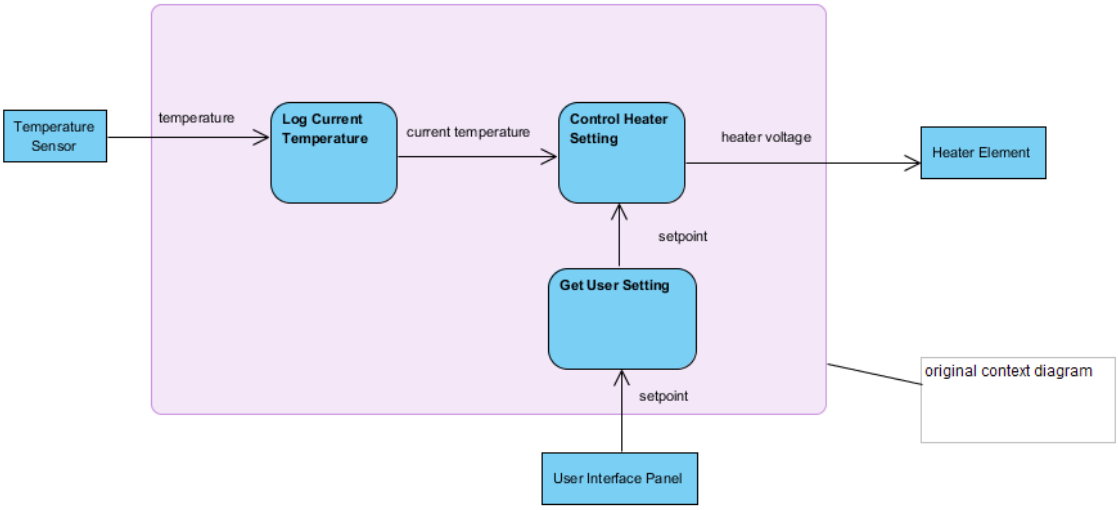
IoT Project Specification Document

Purpose: This document provides a detailed functional description of **what** the application does. It does not describe **how** the application works, which will be described in a design document.

One way of describing application functions is to carry out a "functional decomposition" on the system context diagram that was given in the proposal. Divide the big application "problem" into a number of sub-problems, represented by subsystem blocks. The subsystems can communicate with each other by passing data in dataflow lines.



(Diagram created as an Activity Diagram using Visual Paradigm)

For each subsystem write a chapter with the following sections describing the subsystem:

Name: name of the subsystem

Description: Brief paragraph describing what the subsystem does, not how it does it.

Inputs: List of subsystem inputs and their types (analogue, digital, network message etc.)

Include characteristics such as data frequency, value ranges, if known.

Outputs: List of subsystem inputs and their types (analogue, digital, network message etc.)

Processing: Describe in high-level terms the processing activities that are carried out by the subsystem. The processing can be described using techniques such as pseudocode, activity diagrams, data flow diagrams, decision tables, decision trees etc.

Include a chapter describing the **Non-Functional Requirements** of the application.

Include an **Introduction** chapter which is a summary of your proposal, including the context diagram.

Include a **table of contents** and **title page** at the beginning of the document.