Project Proposal

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## OVERVIEW

*This document is submitted as an interim submission of CA project of the Distributed Systems module on the Higher Diploma in Computing specializing in Software Development delivered by Yasantha Samarawickrama.*

# Domain description

# The proposal is to design a Smart Home Automation System, which creates an interconnected environment where smart devices collaborate to enhance the end users living experience within the home.

# The System will consist of three primary services:

# Lighting Service: This will manage smart light bulbs, allowing the end user to turn lighting on/off and adjust brightness.

# Thermostat Service: This will manage smart thermostats, enabling the end-user precise control over home temperatures allowing them to set and adjust temperatures for different zones in their home.

# Security Service: This will monitor smart security devices such as cameras and door sensors, providing the end user real-time updates and alerts.

# Service definition and RPC