

CLASS DIAGRAM:

DATE: 6/10/12/25

Registration Number: FA22-BSE-159

Name: Talha Rehman

Model

Schedule

• Schedule id: string

• Device id: string

• start time: Date

• ending time: Date

→ is Active (Current time: Date)

✓ Control operation of

Device

deviceid: string

type: string

status: Boolean

energy Consumed: Double

turn On(): void

turn Off(): void

get status(): Boolean

Calculate Energy Usage(): Double

↙ logs energy consumption

Energy Usage

usageid: string

energy Consumed: Double

time stamp: Date

Calculate Total Usage(): Double

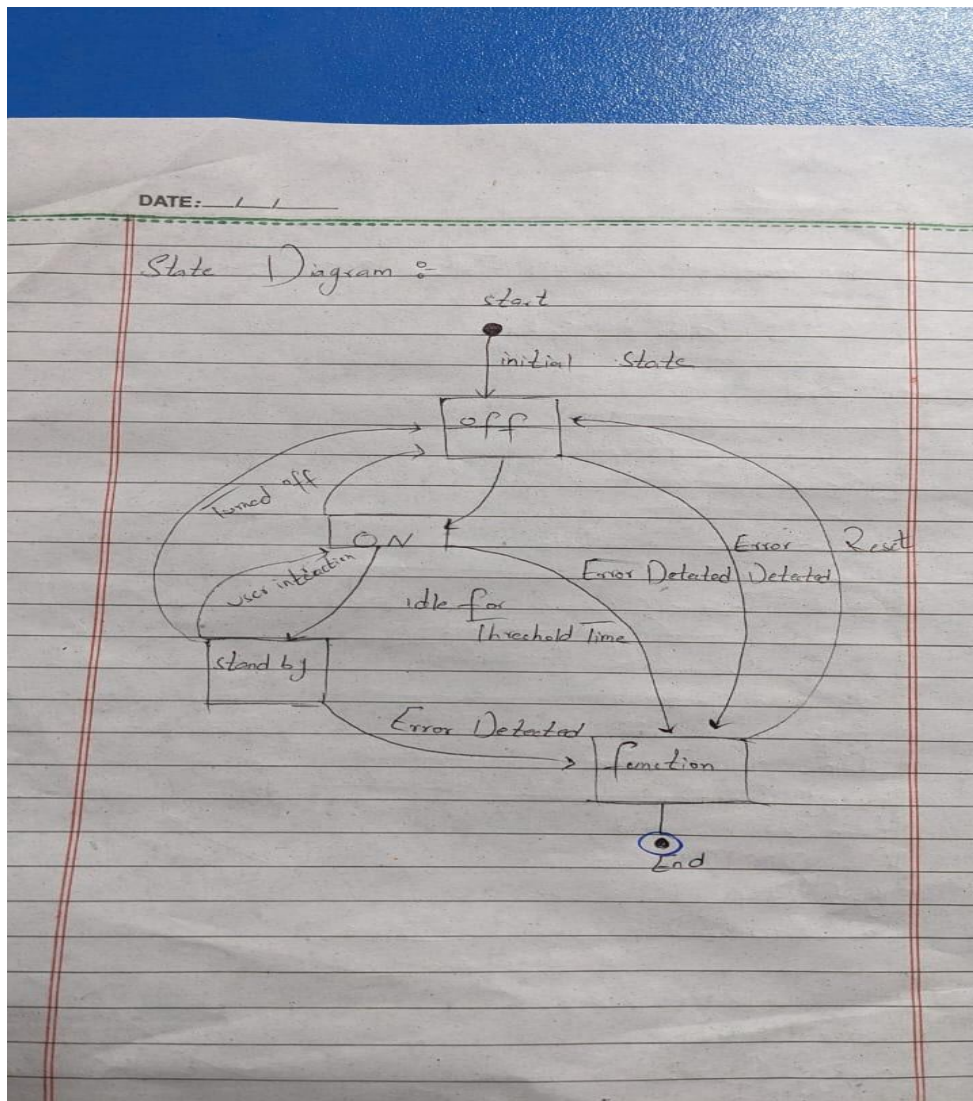
log Usage (device: Device): void

store and retrieve

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STATE DIAGRAM:



ARCHITECTURE DIAGRAM:

DATE: / /

Architecture Diagram:-

Sensor

Temperature
Sensor

Light Sensor

Motion Sensor

Controllers

HVAC Controller

Lighting Controller

Appliance Controller

