**Requirements**

**Introduction**

The project name is vehicle seat heat monitoring system. in this project first sensor will sense that in vehicle passenger is seated or not,

and if it is found that passenger is seated then we need to set temperature accordingly. based on that controller will set heater up-to required temp.

and accordingly. Then heater will generate heat and LCD display will show required temperature value.

**features:**

1. System will detect passenger is seated or not.

2. Sensor sense the accurate and precise reading.

3. Heater will maintain required temperature value.

4. Low cost.

5. Robust system

**SWOT Analysis-**

**Strengths**-

1. Easy to monitor.

2. flexible

3. Easy to understand for measured values.

4. User friendly and comfortable.

**Weakness-**

1. If in vehicle temperature is high controller is not so much useful.

2. If any sensors not work properly effects on entire system.

3. It is difficult to maintain temperature in summer.

**Opportunity**-

1. Passenger can adjust temperature accordingly.

2. Vehicle owner modify entire system if it is required.

3. If any sensor is not working we will get error message on display.

**Threats**-

1. It is difficult to measure front and back end temperature in one sensor because in front end machine is mounted on chassis and that’s why front end temperature is high and back end temperature is normal, if we measure both temperature on time its required to add alternative optional sensor.

**4W1H**

**what-**

What are the benefits of this project?

**which**-

Which components are required?

**Where-**

Where the entire system we implement?

**Why**-

Why system is required?

**How**-

How it works?