

# Resource planner

1. Human Resources:
  - Project Manager
  - Software Developer(3)
  - Quality Assurance Specialist(1)
  - Manufacturing Coordinator(1)
2. Hardware Resources:
  - Jacket Material
  - Gas detection sensor, Impact sensor, GPS module, temperature and humidity sensor
  - Arduino UNO
3. Software Resources:
  - Integrated Development Environment (IDE)
  - Sensor Data Processing Software
  - Communication Protocol Software
4. Training Resources:
  - Training Materials
  - Training Sessions
5. External Resources:
  - Manufacturing Partner
  - Logistics Partner
  - Sensor Suppliers
  - Legal Consultant
6. Budget Allocation:
  - Hardware and Sensors : 3000
  - Human Resources: 5000
  - Software Development : 1000
  - External Resources: 2000
  - Training Resources: 1000
7. Timeline for Resource Allocation:
  - Project Initiation: (8/1/24)
  - Research and Development: (22/1/24)
  - Design and Prototyping: (15/2/24)
  - Sensor Selection: (25/2/24)
  - Integration and Testing: (1/3/24)
  - User Testing: (16/3/24)
  - Manufacturing and Quality Control: (2/4/24)
  - Training and Implementation:(17/4/24)
  - Evaluation and Feedback: (22/4/24)
  - Project Closure: (29/4/24)

**Risk Mitigation:**

❖ Delays in Sensor Delivery

Identify alternative sensor suppliers or consider using readily available sensors.

❖ Technical Challenges in Sensor Integration

Conduct thorough testing and prototype iterations to resolve technical issues.

❖ Quality Issues in Manufacturing

Work closely with the manufacturing partner and implement stringent quality control measures.

❖ Insufficient User Training

Develop comprehensive training materials and conduct multiple training sessions.

❖ Regulatory Compliance Issues

Seek legal advice and ensure the project complies with all safety regulations.