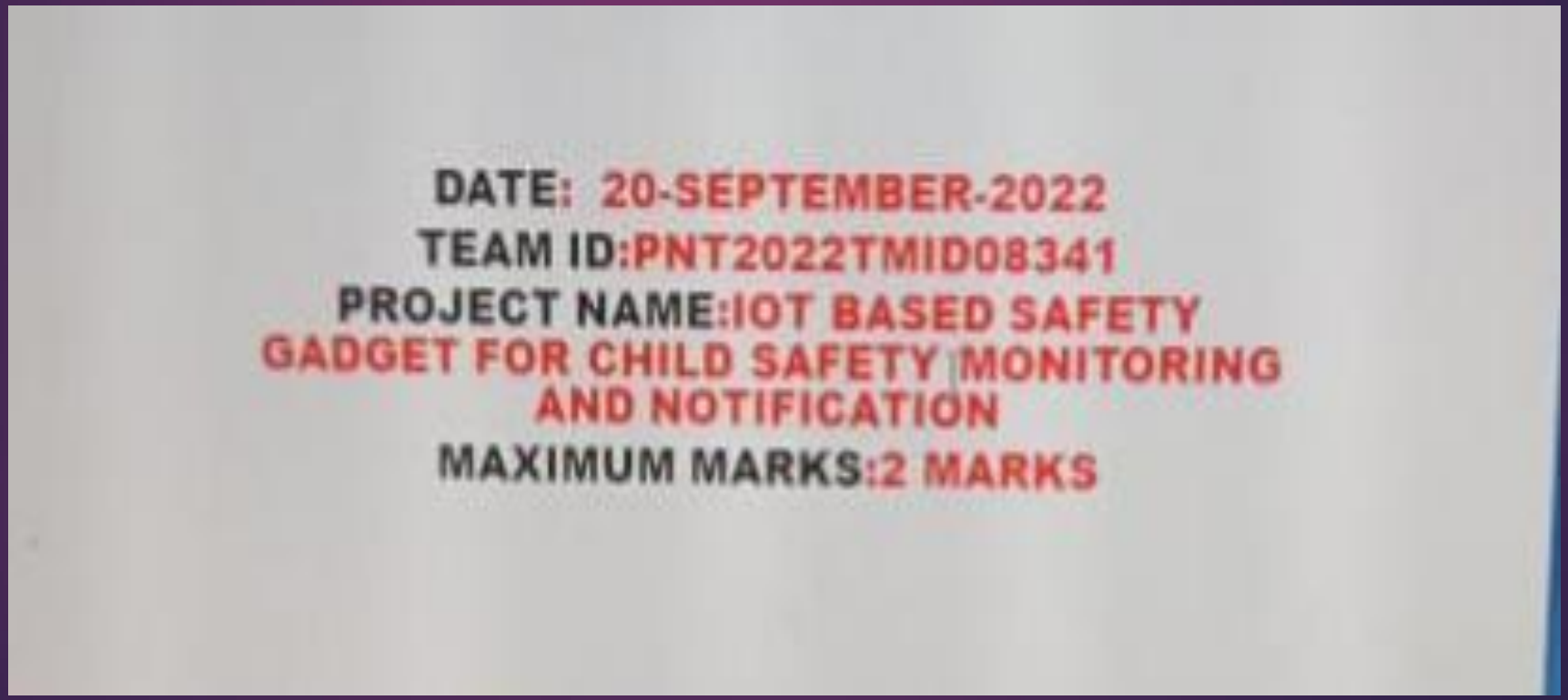
Ideation phase



LITERATURE SURVEY

Title 1: RFID-based System for School Children Transportation Safety Enhancement
Author: Anwaar Al-Lawati, Asma Al-Belushi

Description: The system is divided into two parts: a bus system and a school system. The system detects when a youngster boards or exits the bus via the bus unit. This information is sent to the school district, which determines which students did not board or exit the bus and sends out an alert message. The system is managed by a web-based database-driven application that delivers useful information about the youngsters to authorized personnel. To validate the system's functionality, a complete prototype of the proposed system was created and tested. The findings indicate that the technology has the potential to improve daily transportation safety

Title 2: Design and Development of an IOT based wearable device for the Safety and Security of women and girl children

Author: Anand Jatti, Madhvi Kannan,P Vijayalakshmi

Description: Analysis of physiological signals in concert with body position is used to attain the goal. Galvanic skin resistance and body temperature are the physiological signals studied

raw accelerometer data from a triple axis accelerometer is used to estimate body position. Following the acquisition of raw data, activity recognition is performed using a customized machine learning algorithm. Wirelessly transferring sensor data to an open source Cloud Platform allows for real-time data monitoring. The data is analyzed in MATLAB at the same time. This equipment is set up to continuously monitor the subject's vital signs and to intervene if a dangerous scenario arises. It accomplishes this by detecting changes in the monitored signals, and then taking appropriate action by sending notifications/alerts to selected personnel.

Title 3: Child Safety Wearable Device
Author: Akash Moodbidri, Hamid Shahnasser
Description: The main advantage of this wearable over others is that it can be used with any cellphone and does not require an expensive smartphone or someone who is particularly tech adept to use. The goal of this device is to make it easier for parents to locate their children. There are various wearables on the market right now that can track a child's daily activity and also aid locate the child using the device's Wi-Fi and Bluetooth capabilities.

Title 4: Smart Intelligent System for Women and Child Security
Author: Sunil K Punjabi, Suvarna Chaure
Description: The women's and children's security system, which enables for fast replies to any harassment in public areas, societies, and so on. Women are subjected to unethical physical harassment all throughout the world, and children should never be left unattended at a social gathering or outside the home. Both issues are addressed by our project. A pressure switch will be built into a portable device.