SYNOPSIS OF THE PROJECT

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Shared folder/git repository details	https://github.com/anakhapavi/MainProject
Project Title	Smart Baby Cradle

Description of Project:

Cradle is a device that is used to put babies to sleep. Cradle has a side- to-side rocking motion that eases the baby and put it to sleep. It takes lot of efforts from parent to physically rock the cradle to generate swinging motion. When baby is kept inside the cradle need to be constant monitoring parent to keep to track of baby's activity. The proposed idea in this prototype of smart cradle will allow the cradle to efficiently integrate itself with a smartphone typically android device. An Arduino microcontroller will be used to assemble all the sensors and hardware component required. Constant monitoring of the baby inside the cradle will be done. If any activity such as urination or baby waking up from sleep occurs a notification through an SMS will be sent to the parent's device. The Smart cradle will also have additional features such as rocking the baby automatically via geared motor mechanism. The cradle is suitable for parents who are not able to invest all their time at home sitting near the baby. Other applications of this cradle can be at a maternity hospital as an assistant to the staff who are responsible to look after the baby. The components used here are: **Arduino Uno, Sound Sensor, Moisture Sensor, DHT11 Sensor, Relay Switch, Motor.**