



# Faculty of Mass Communication

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## **A medical mattress project for children "baby safe " to measure the heartbeat, oxygen rate and temperature of the child**

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### **❖ Idea of the Research Project (baby safe):**

**The project is related to sustainable development and community service, which is** the Baby Safe mattress. It is a medical mattress for children, the purpose of which is to protect the child from any emergency situation, whether it is an increase in the child's temperature, an irregular heartbeat, or a decrease in the level of oxygen in the blood through sensors located in the mattress. It issues alerts to the mother through a loudspeaker or through the mother or father's phone by downloading a special program for the mattress to inform them periodically about the health of their child.

### **❖ Aim of the Research Project (baby safe):**

**One of the goals of serving working women and providing family safety is that the research project aims to** provide comfort for the mother and father and safety for the child by following up on his health status during sleep or waking up and making sure that the child's condition is safe through the sensors in the rank that constantly send updates on the child's condition. The application is available on the parents' phones, and if an error occurs in the child's pulse,



oxygen, or temperature, alerts are sent to the mother or father's phone to inform them of the location of the defect.

❖ **Stages of Carrying out the Research Project (baby safe):-**

- 1-After suggesting the idea among the work team members
- 2- It was implemented in a maquette that expresses and about the sensors and the sounds of alerts that come out of it to warn about something that is happening
- 3- A website has been created for the product to be sold on the Internet
- 4- Create pages on social networking sites (Facebook and Instagram) to promote the product and explain it to the consumer
- 5- Proposing sales development plans for the product, for example: by making contracts with outlets selling children's products to display our product in their showrooms

❖ **A Practical Experiment for (baby safe): -**

The mattress is tested and its features intellectual and technological developments are presented to the guests.

❖ **A Suggested visualization: -**

The idea of the project can be implemented on the ground with the targeting of certain parties (children's hospitals, homes, nurseries) and the development of sensors that actually measure the three jobs and make an application connected to them and to the parents' phones, but the idea of implementing it on the ground needs funding because the issue is expensive due to the lack of Having this idea before.

❖ **Proposal**

The project idea can be implemented through the work of a small funded project and can promote to target homes, hospitals and nurseries.