V.S.B ENGINEERING COLLEGE,KARUR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAYA THIRAN

TITLE : IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

DOMAIN NAME :INTERNET OF THINGS

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PROBLEM STATEMENT

THE MAIN OBJECTIVE OF THIS SYSTEM IS TO PROVIDE THE SAFETY TO CHILD WHICH IS LOST IN MAJOR CROWED AREA. NOW A DAY, CHILD ARE NOT SECURED THEY ARE FACING MANY ISSUES REGARDING THEIR SECURITY. THERE ARE NUMBER OF SECURITY SYSTEMS FOR THE CHILD SECURITY PURPOSE. IN ORDER TO OVERCOME SUCH PROBLEMS THE CHILD SAFETY WEARABLE SYSTEM IS IMPLEMENTED. THIS SYSTEM IS NOT REQUIRED ANY EXPENSIVE TECHNOLOGY AND IT IS USER FRIENDLY FOR BOTH EDUCATED AND UNEDUCATED PEOPLE. THERE ARE MANY WEARABLE DEVICES ARE AVAILABLE IN THE MARKET TO TRACK THE CHILD USING WI-FI AND BLUETOOTH BUT THE WI-FI AND BLUETOOTH ARE THE UNRELIABLE MEDIUM FOR THE COMMUNICATION BETWEEN PARENT AND CHILD. IN THIS SYSTEM WE USE THE TEXT SMS AS A MODE OF COMMUNICATION BETWEEN PARENT AND CHILD THERE IS MINIMUM CHANCES OF FAILING COMMUNICATION AS COMPARED TO WI-FI AND BLUETOOTH. IT ALSO INCLUDES SOS LIGHT AND BUZZER TO PROVIDE SECURITY TO THE CHILD IN REAL TIME SITUATIONS AND IT HELPS TO PARENTS TO CHECK THE CONDITION OF CHILD USING ANDROID APPLICATION.

Problem-Solution fit canvas 2.0

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

Parents are the customers who want their kids to be safer by tracking them.

6. CUSTOMER CONSTRAINTS — CC

Not all the time the parents are able to take care of their child sometimes it may be difficult for them. They also miss their kids or kidnapping is happen now-a-days.

5. AVAILABLE SOLUTIONS — AS

We are providing a GPS and GSM module in the form of toy or it may be a watch or the things that is always with the children. It may be help full for the customers to track their kids. We also provide so extra specifications too.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

According to the surrounding area, children should be take care by their parents. Wearing of gadget won't affect the children or women health.

9. PROBLEM ROOT CAUSE — RC

Sometime the patents are unable totake care of their child and they may have a chance of missing them too.

7. BEHAVIOUR — BE

Finding the missing child is the major risk but this may help to find them. It also detects their heart beat and temperature so we can be one step ahead in taking care of the children.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS — TR

Some of the triggers are advertisements in the television and information from the experts.

4. EMOTIONS: BEFORE / AFTER — EM

Without this divice if they miss their child it is too difficult to find but with the help of this device or gadget it is easy to find them by using this customers will be very much satisfied.

10. SOLUTION — SL

If they miss their child or if they want to take care of their child they can use this gadgets. It is very much usefull for them to track their kids. We can also find where they are roaming by the GPS fixed in that.

8. CHANNELS of BEHAVIOUR — CH

8.1 ONLINE

With the help of the online websites the customers can gain some knowledge about this.

8.2 OFFLINE

While a customer is buying a product they may be given all the instructions about the device and how to handle.

Extract online & offline CH of BE

AMALTAMA