

A Smart IoT Baby Monitoring System Based on Raspberry Pi

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The Project

In my project I will be creating A Smart IoT Baby Monitoring System using Raspberry Pi. My aim in this project is to create a Smart IoT Baby Monitoring System which is a quality product that can be a competitor in the baby video monitoring system market which also solves the problems which come with the offerings of the rest of the products in the market.

Problem Solver

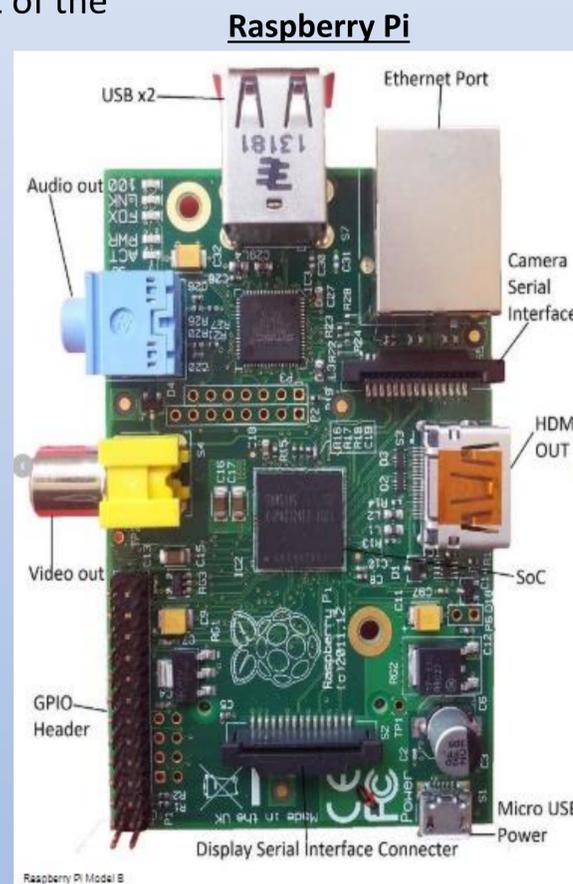
There are many problems in the baby monitoring system market one of those is the poor quality, to solve this my Smart IoT Baby Monitoring System will have to fix the problems of poor quality output which is prevalent in many systems especially the products in the lower price range, by using the local WIFI network and a good quality camera.

Furthermore in my project I will be addressing the security issues which are well known in the baby monitoring market which can cause problems of security and privacy in family homes, by adding security features such as firewalls and keeping the connection within the local network.

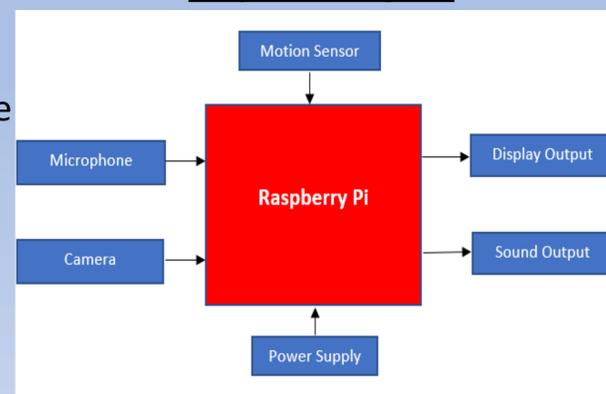
Also many of the decent quality baby video monitoring systems come at a higher price range which means those products are not available to afford, from this product it will solve the problem of parents who don't have much disposable income and also offering a cheaper alternative which is hopefully more available to everyone.

Inspiration

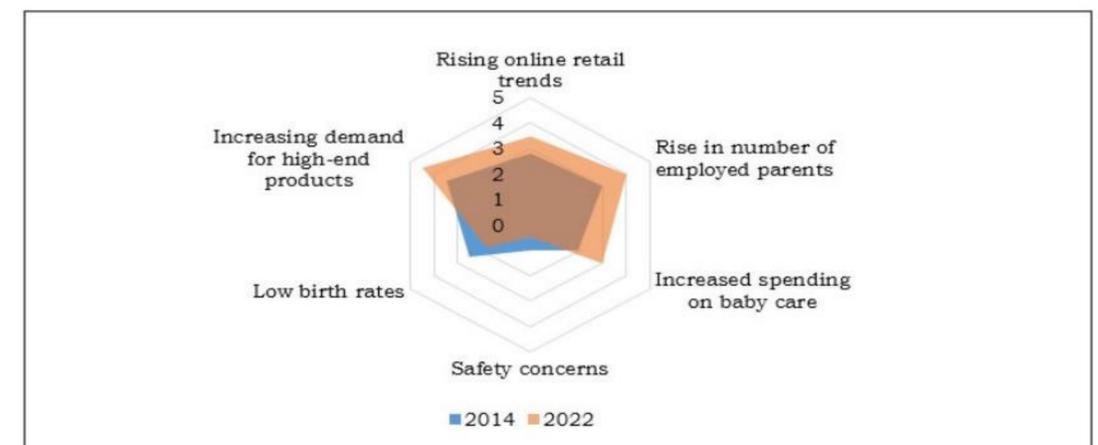
I have decided to undertake this project after doing my research for the final year project I had come across many different project which are similar to this for example a CCTV system. I had continued my research and found that there were many problems prevalent in the baby monitoring system and that maybe my project idea can be used as a solution to fix these problems. Also my supervisor had given me the idea of using the Raspberry Pi micro computer for my project as a way to further my computing knowledge and to also challenge myself and make use of a resource which I would not normally have the option to use.



Proposed Diagram



TOP FACTORS IMPACTING EUROPE BABY MONITOR MARKET



Method

To undertake my project I will be using the Raspberry Pi micro computer as the system for creating the smart baby monitor due to its mini size and features such as wireless access. The programming language which will be used is Python as it is the standard language which comes with the Raspberry Pi. I will also make use of a camera with USB connection such a good quality webcam for the video monitoring and also microphone to record sound. There may also be space for a temperature sensor which could be of good use.