PIX-BOT

Setting the Scene

Curiosity is a diving force for over all development in children which needs to be Nurtured with care. Unlike the past, world today has gotten busier. Making it harder for parents to be more involved in their development On top that for better or worse the world is getting smarter, driven by tech and information. Modern mystical concepts like Ai and digital assistant are slowly becoming an integral part of day-to-day life.

Trying to isolate kids from this addictive technology in fear of its bad influence would be impossible.

Instead, wouldn't it be great if there was a better way for children to interact with this growing world of technology ?

What if there was a way to satisfy their curiosity without having to use a phone or laptop.

What if there was a way to keep track of your child's interests and behavior.

What if there was a toy that could understand, adapt and grow with your child.

What if the toy was like a pet this able to assist the kids and also teach them responsibility along the way.

Imagine if the toy was like a smart assistant for kids that would try indulging kinds in new topics by giving out random facts or facts about something from an ongoing conversation.

Imagine if the toy was able to answer age appropriate questions from kids and keep track of things that the child finds interesting.

Imagine if the toy could help the child keep up with a schedule and monitor them when using a device with screen

Research

The most well-known Robotic toys "Furby" introduced in 1998 was able to captivate the market selling on about 40 million units. Back then majority of its buyers were between 16-20 but since then tech has come a long way with humanoid remote-controlled robots as well as electronic pets and bots with Ai.

The smart toys of today can provide a personalized experience to kids with having a range of technology's integrated into them.

Some of these technologies include:
Speech and image recognition.
Web searching functions.
RFID functionality.
IBM Watson's natural language processing technology.
Adoption of STEM (Science, Technology, Engineering, and Math).
Real-time tracking of children's activities.
Capability to store personal data.

Miko
£169
Claims
Dance master
Ask Question's
Multilingual
Integrated learning
Parental control
Tele connect

Click Bot
£335-820
Claims
Modular up to 50 predefined shapes
Different levels of Programming
Build in emotions
personality Editor

Honey Bot
£172- 185
Claims to
Teach common sense,
Tele connect
Childs best friend
3D animation
Storyteller
Entertainment

Wink Bot
£142
Claims
Programmability
Modularity
Pet like
Games to improve motor
Skills

Design Aim

To develop a smart assistant for kids that is gender neutral in appearance and able to blend with other children's toys. It should be easy to carry and able to withstand impacts.

The toy would give random facts to children while Interaction or answer their questions in a simple manner.

Should also be able to assist children that have speech related issues or behavioral problems.

The assistant could assign tasks given by parents and as rewards they could receive pocket money or fav food for dinner.

It could also assist kids in revision before exam or practicing before a speech.

Interaction

An AI that can connect to internet, so it is able to search answer to questions and deliver them in a way they are understandable. Ability to determine changes in speech patterns and facial expressions to understand mood and behavior. Able to deliver facts and news based on interest also notify about bad weather and schedule. Additional physical modification and to further customize your Bot.

Security

To address the rising concern regarding leak of personal data and privacy a secure system needs be in place that can process different parameters without leaking it to a 3rd party.
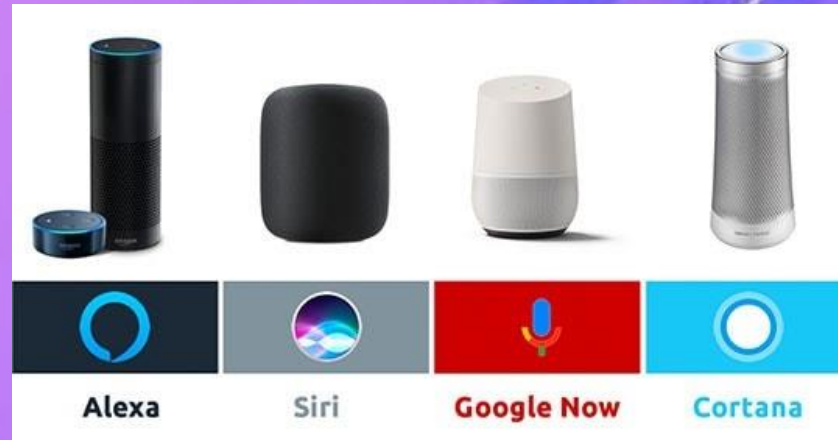
Growth

Parents able to monitor and track development of children with the help of AI to increase or decrease the level at which info is to give to the child.

Behavioral monitoring could help in detecting psychological conditions that sometimes might go unnoticed like ADHD

As kids grow they could learn to make use of variety of sensors in the toy by adding additional code.

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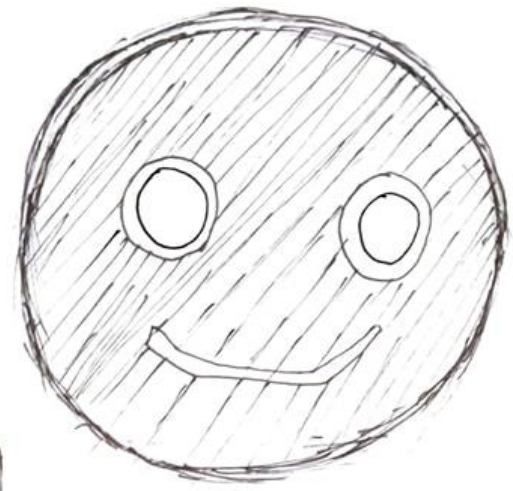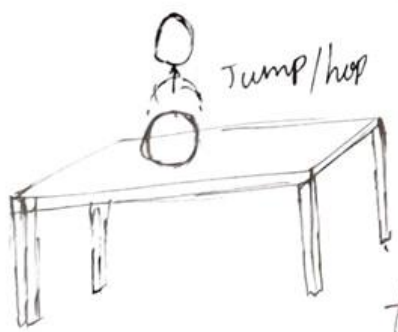https://www.irobot.co.uk/roomba?gclid=Cj0KCQiAmeKQBhDvARIsAHJ7mF7H_8AuGNtO5twjaaX09xjIAHVKIzUa9nmiKfoAiLg-5AnJ7lwgiB4aAgr_EALw_wcB
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Core Processor

Semi sphere
display

Charging Dock

Jump/hop

shock proof
transparent coating

~~Filled with a non newtonian fluid~~

NON Newtonian fluid

Filled

rubber coating/casing

antena / shock absorber

core