

# Team: Light & Dark

---



**Srishti Singh**



**Urvvi**



If you're wondering what we are up to...

---

Identifying influencing factors for well-being and education of children with Special Needs during the COVID-19 pandemic.





Kick-starting with the theme of 'Adapting to the Changing times – Creating Awareness, Facilitating Learning and Education for Children with Special Needs' we immediately referred back and are recollecting our personal experiences and insights from BM Institute of Mental Health, Ahmedabad, from pre Covid times.

We had spent an entire month to learn and engage with the children, teachers and parents there!



CREATIVE

ANKUR - BELGAUM

Current challenges?

Which students are most vulnerable?

Advantages of remote learning?

Parents view point

How were remote classes being conducted?

What tools are most commonly used for their development?

How do you think I should go about the project? Can I collaborate with Ankur

Key skills to develop for these children.

Speech + physio therapy - most important occupational

physiotherapy  
speech therapy  
vocational independent (daily acts)  
learning difficulties  
parent support

- No technology products
- parents main role
- always someone to be with them & operate systems
- One on one
- Bygger Fonts, audible, able to handle
- short, sound & colour → attractive
- Tactile learning very important
- Whatsapp, connection
- Most spl children have siblings
- Initial enthusiasm, (2 activities per week)
- Parents don't have enough time
- Many equipments at schools - spoons, chairs, toys, walker
- Gpe faster when school start.
- Audio is very important
- [One to one + Tactile.] most important
- Sand - therapies  
clay (different kinds) cognitive development
- Learning disabilities (start)
- Headgear mouse, battery chair
- Youtube videos cater only to masses.
- Speech therapy online, no other therapy

Spl educator  
therapist  
Health coordinator.

Individual education plan

- generalised sessions
- learning not taking place
- Learning with other children (understanding among children)
- Inspiration abroad
- Wooden toys - cutout puzzles
- No plastic beads, blocks
- Big size, thicker size crayons
- tactile / texture balls. Lots of colour & paint.
- children love getting hands dirty
- colour therapy (scribbling on paper)
- See & feel what teachers talk about visual + tactile + audio.

ARTS BASED THERAPY (BM INSTITUTE)

creativity  
expression  
problem solving  
through

MUSIC  
drama  
painting (art)

water colour - anger - no control / things will change

INCREASE & DEVELOP

Easier to express more impactful constant improvement

A happy child is a learning child

CWSN constantly feel threatened with different / same environment thus having very small attention spans.

CHILDREN FOLLOW WHAT ELDERS DO,  
CHILDREN MAY NOT LISTEN TO ELDERS

SATYA SPL SCHOOL - PONDY

- Parents always involved
- gap between what child needs and what they are capable of doing
- Parent unaware of child's abilities
- Low income beneficiaries
- Assistive paper technology + junk materials
- Very expensive
- always shortfall of items. (nothing child friendly)
- Cloth books, sensory kits, western items
- Online sessions for urban children
- Survival kits, toy kits (based in sometimes)
- Tab lending project, pre loaded material + activities
- Using water /atta, interpretation by mothers
- only speech therapy
- How do you keep the child occupied? Mother (many other work at home)
- Not able to concentrate online.
- Run around, play outdoors, missed
- Siblings involved, fathers involved, skills improved for teachers / mothers,

- Magnetic clay, clay, paints, toys, flash cards, straws, plastic items, many no. of items.
- Rural population (stones, sticks)
- Replicable, available everywhere, low cost, aesthetic → interest
- Education, sensory - tactile
- Skills to concentrate, complete an activity, short time span, duplo blocks (very liked).
- 10min max
- Material - relate to, easily available, indigenous
- individual education plans
- ability appropriateness vs age appropriateness
- bamboo / cloth
- mobility in toys.
- Tab lending project
- ANAZ - Yellow
- Bloss angel
- New activities
- Slow learners (Lungs of dropping out)
- daily living activities
- Individual Ed. Plan
- 7 kids - 1 teacher

Existed to see teachers in the videos

Virtual Reality Center.

As part of our primary research, we have been talking to various caregivers including Parents, Educators and Therapists....We could see a lot of interesting insights coming in and a ray of hope in each of the caregivers as they showed their immediate support towards the cause!





Above you can see our key findings from hours of hard work and a lot of reading (yes the process is still ongoing as the more you read. the more hungry you get!). If you are getting hungry, feel free to check out the links below to get more information on our findings.

UNICEF. COVID-19: Considerations for Children and Adults with Disabilities. 2020. <https://www.unicef.org/disabilities/>

UNICEF. Progress for Every Child in the SDG Era: Are we on track to achieve the SDGs for children? The situation in 2019. <https://data.unicef.org/resources/progress-for-every-child-in-the-sdg-era-2019/>.

Save the Children. Understanding UN activities for Child Rights. 2018. <https://www.savethechildren.in/resource-centre/articles/understanding-un-activities-for-child-rights>

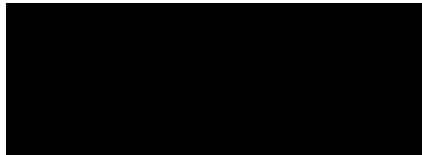
Global Education Monitoring report. Inclusion and education:ALL MEANS ALL. 2020. UNESCO. [https://unesdoc.unesco.org/in/documentViewer.xhtml?v=2.1.196&id=p::usmarcdef\\_0000373718&file=/in/rest/annotationSVC/DownloadWatermarkedAttachment/attach\\_import\\_7f053edb-de47-40f5-8f69-5f500df1e977%3F\\_%3D373718eng.pdf&updateUrl=updateUrl6697&ark=/ark:/48223/pf0000373718/PDF/373718eng.pdf.multi&fullScreen=true&locale=en#p36](https://unesdoc.unesco.org/in/documentViewer.xhtml?v=2.1.196&id=p::usmarcdef_0000373718&file=/in/rest/annotationSVC/DownloadWatermarkedAttachment/attach_import_7f053edb-de47-40f5-8f69-5f500df1e977%3F_%3D373718eng.pdf&updateUrl=updateUrl6697&ark=/ark:/48223/pf0000373718/PDF/373718eng.pdf.multi&fullScreen=true&locale=en#p36)

India Report-Digital Education. June 2020. Department of School Education and Literacy, Ministry of Human Resource Development, Government of India, New Delhi. [https://mhrd.gov.in/sites/upload\\_files/mhrd/files/India\\_Report\\_Digital\\_Education\\_0.pdf](https://mhrd.gov.in/sites/upload_files/mhrd/files/India_Report_Digital_Education_0.pdf)

Dr. Nidhi Singal. Education of children with disabilities in India 2009. UNESCO. <https://unesdoc.unesco.org/ark:/48223/pf0000186611>

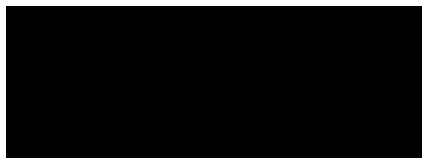
SDG2020. Quality Education. 2020. <https://www.un.org/sustainabledevelopment/education/>

Alvernia University. Technology Tools That Are Making a Difference. 2019. <https://online.alvernia.edu/articles/5-assistive-technology-tools-that-are-making-a-difference/>

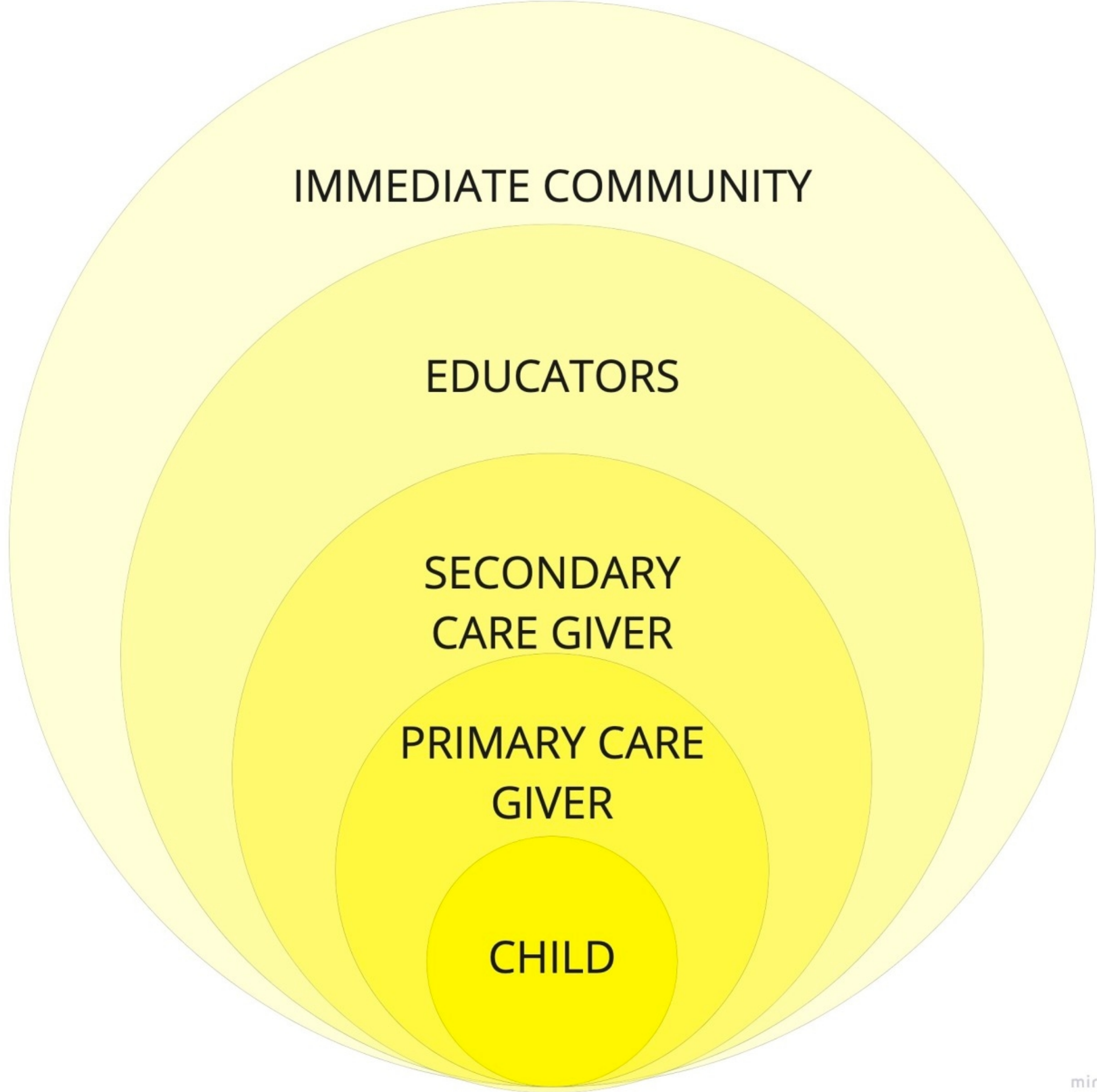
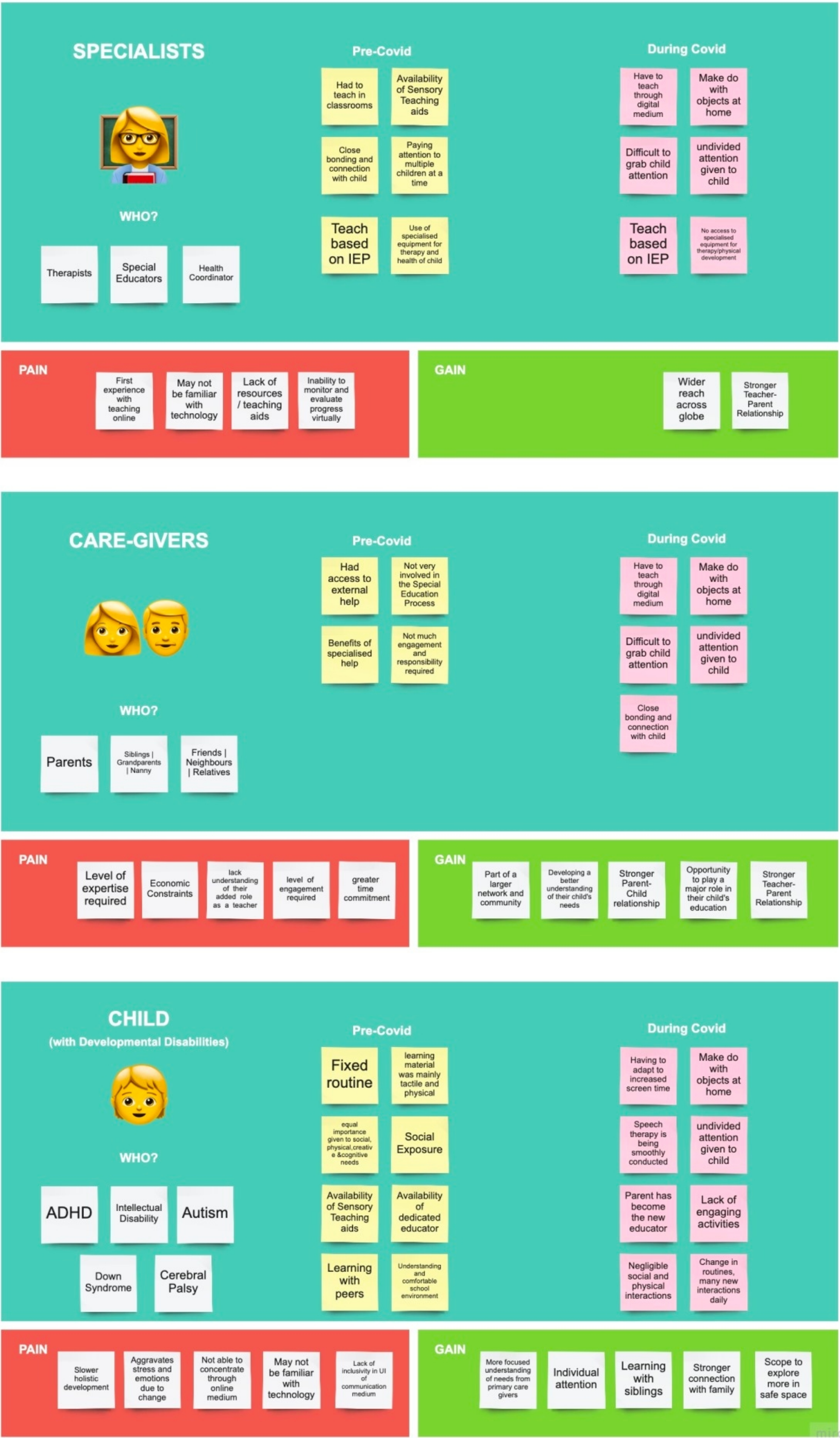


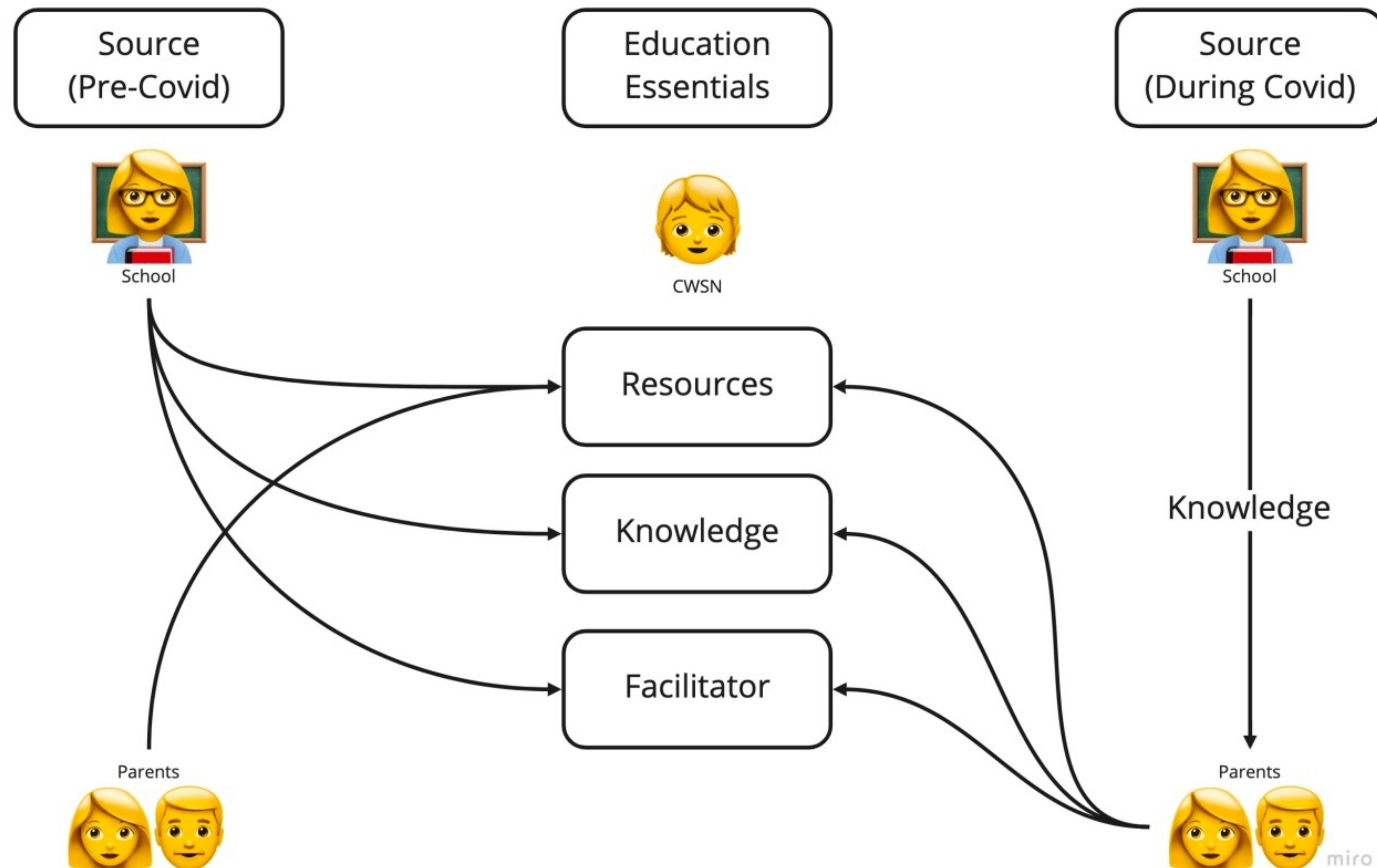
Problem Statement – “How might we transfer the responsibility of quality education for children with developmental disabilities from special schools to homes?”





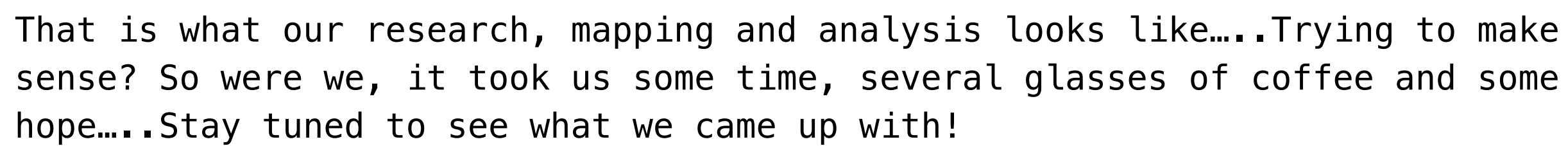
Understanding the Stakeholders of the Special Education System.





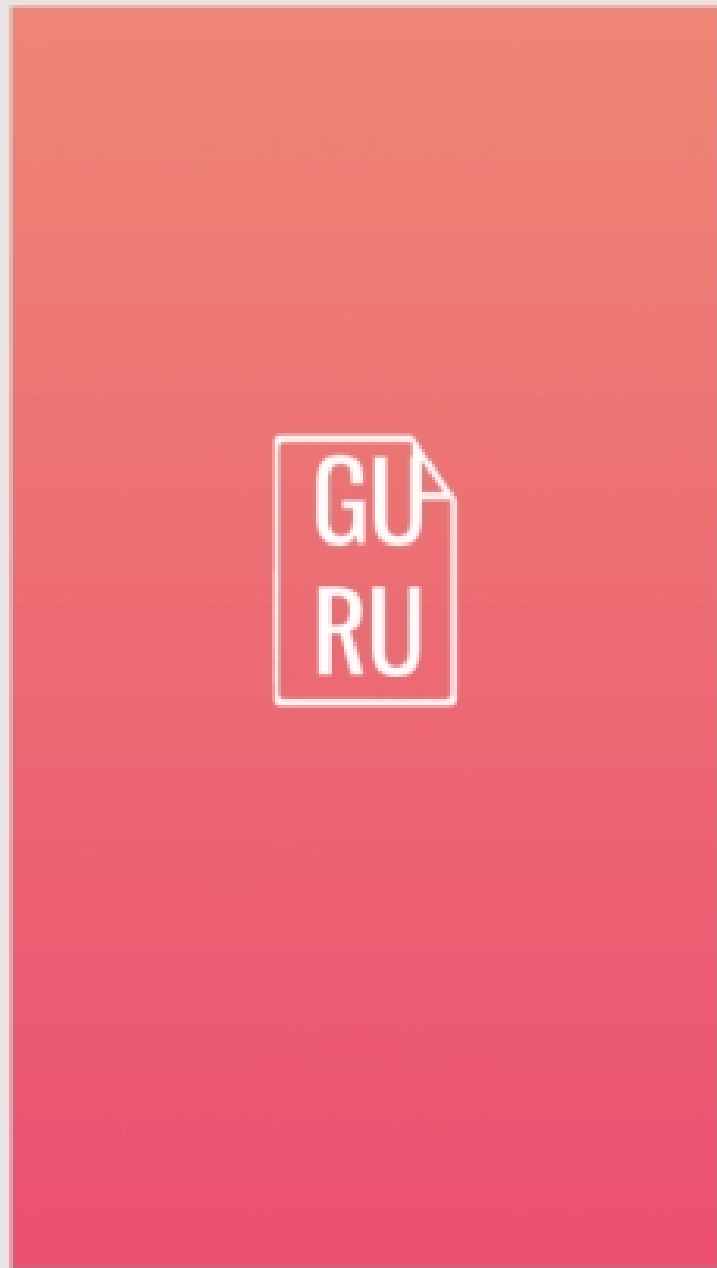
Connecting the dots always reveals something in the bigger picture and we are wondering how we can impact it!



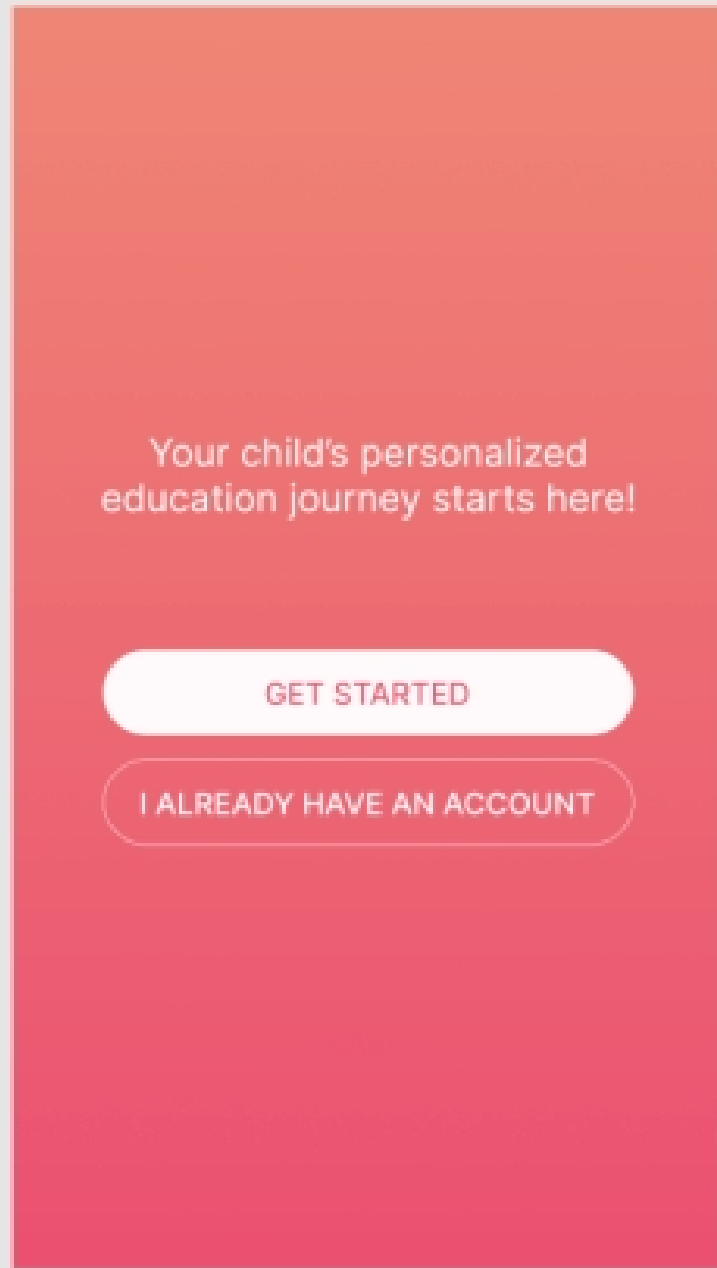




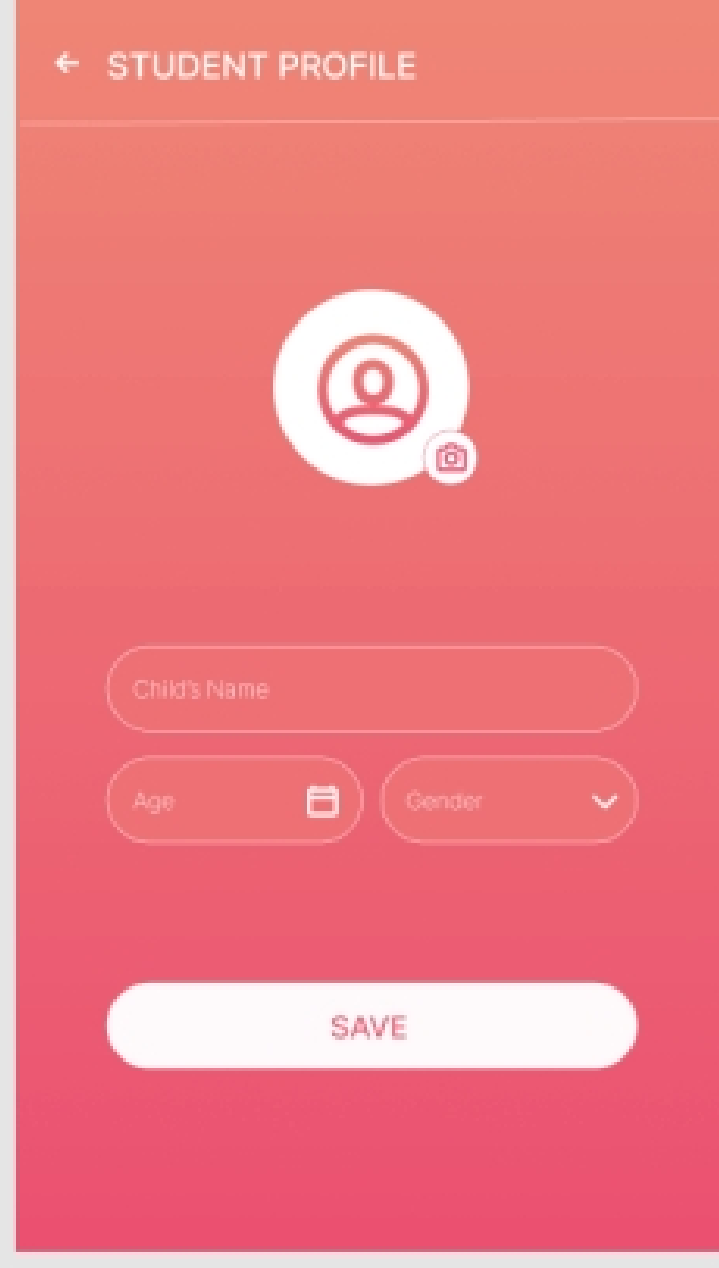
1



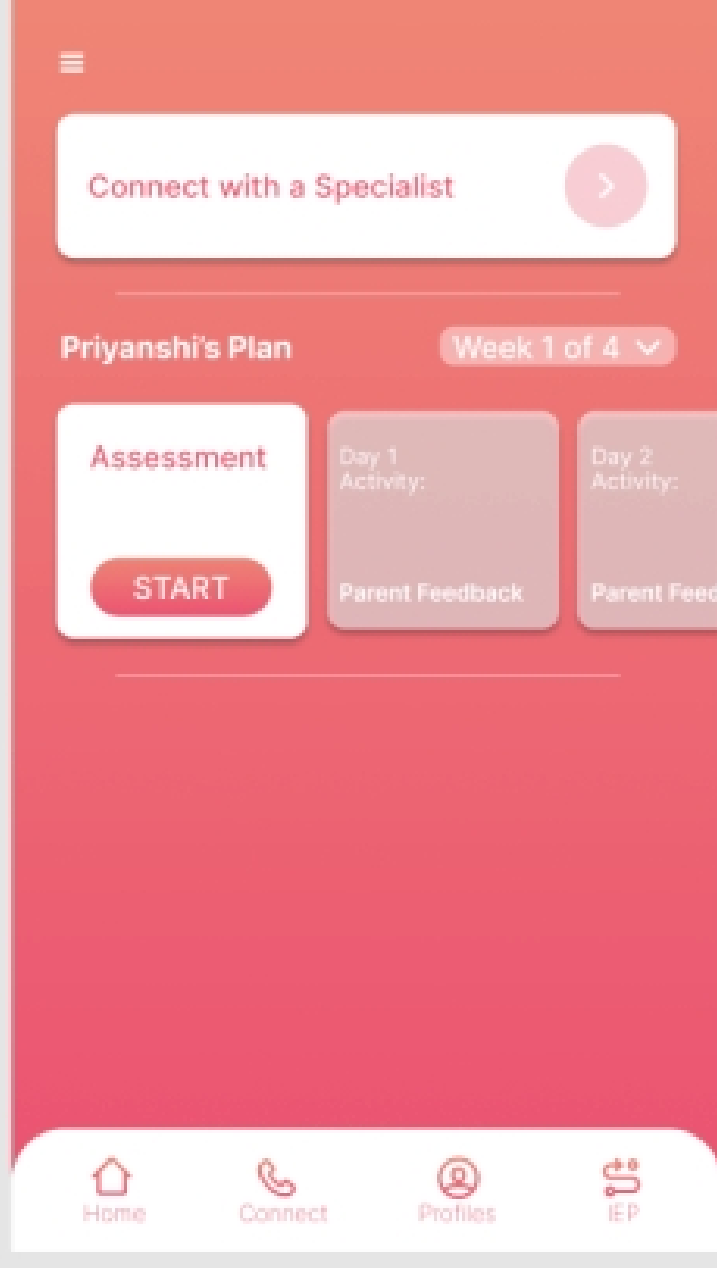
2



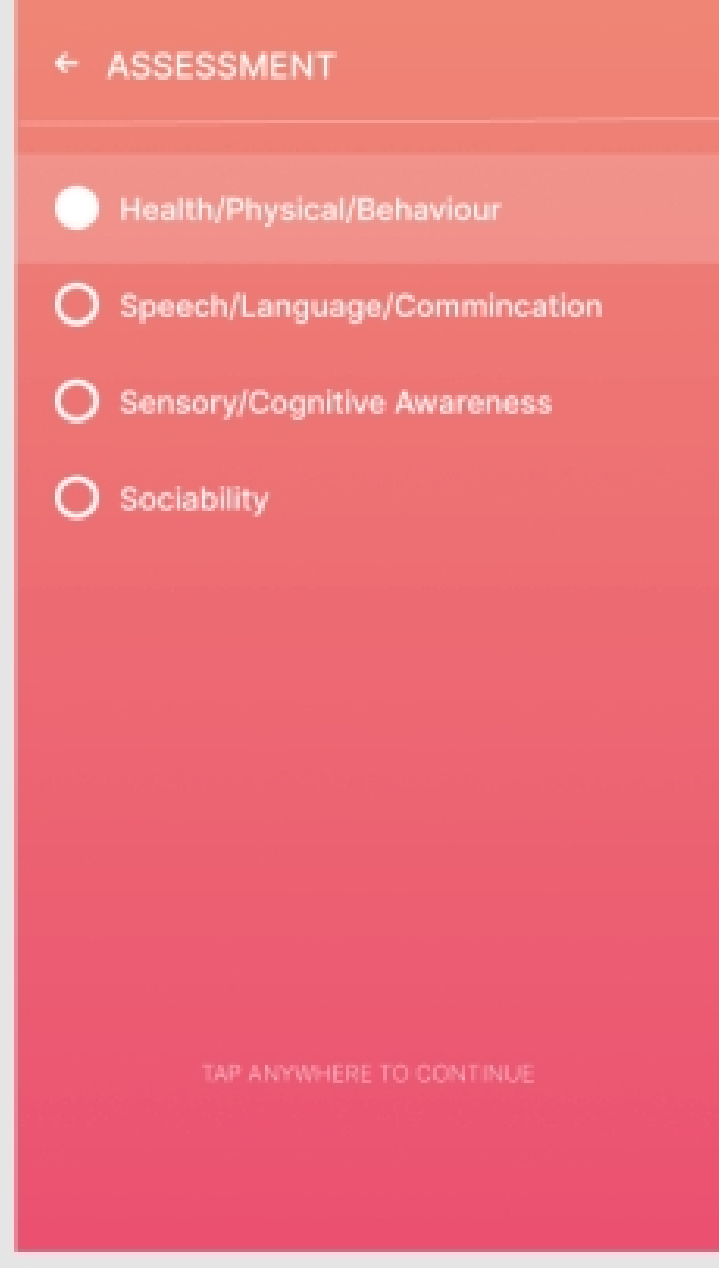
3



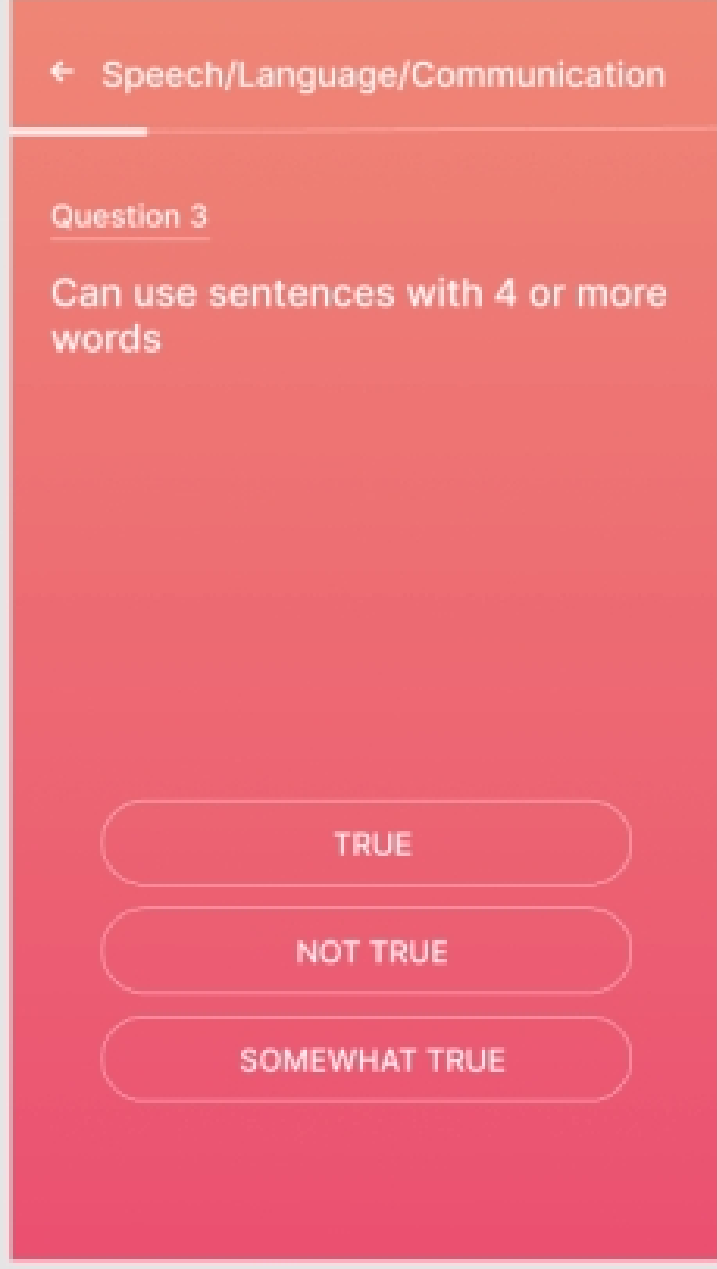
4



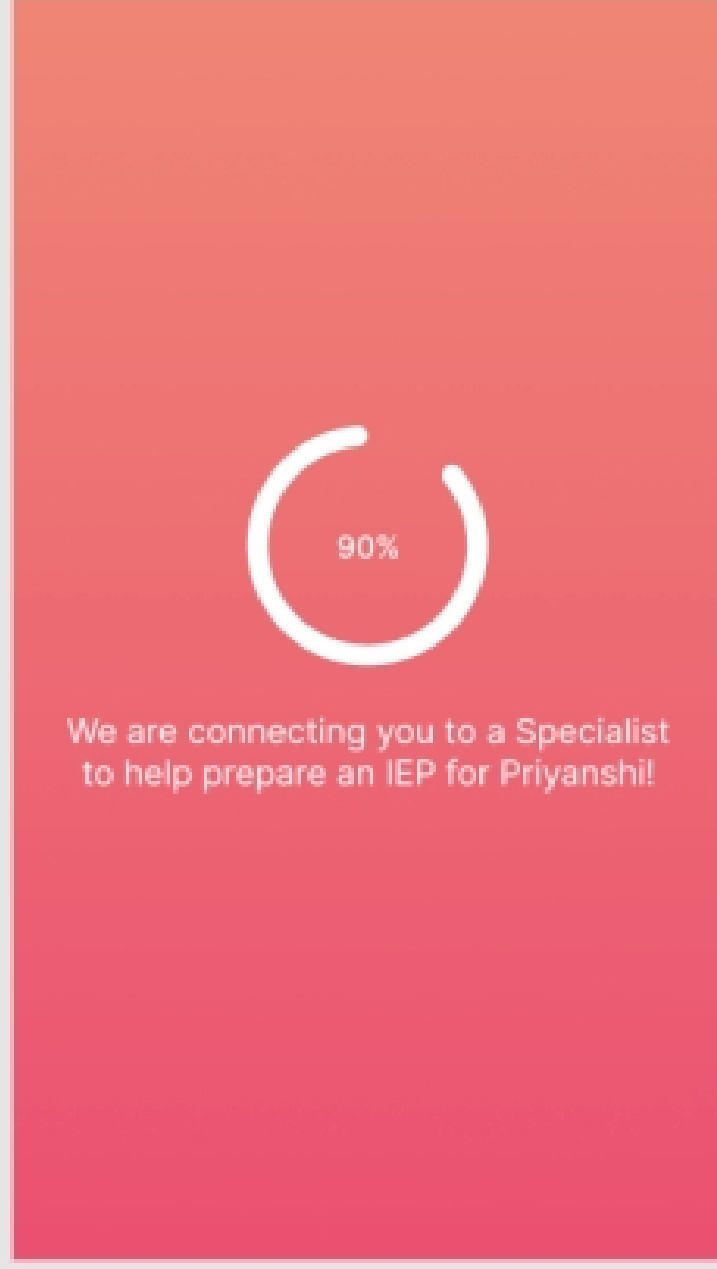
5



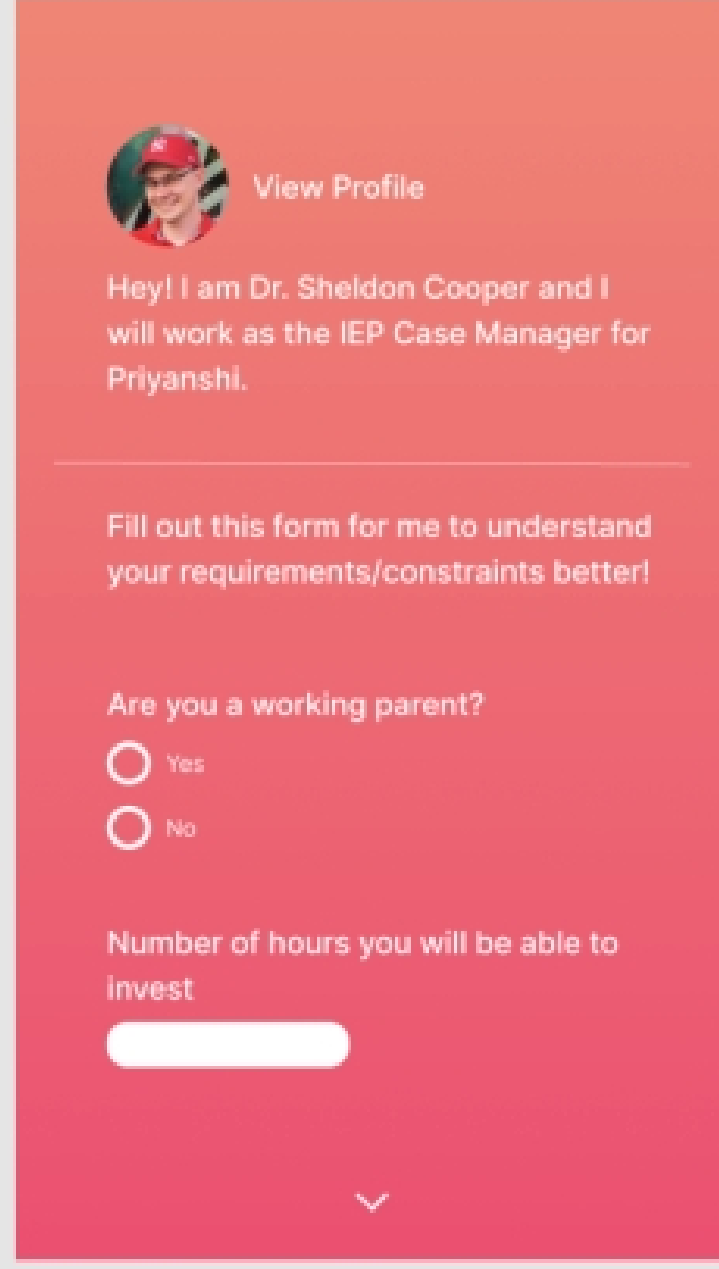
6



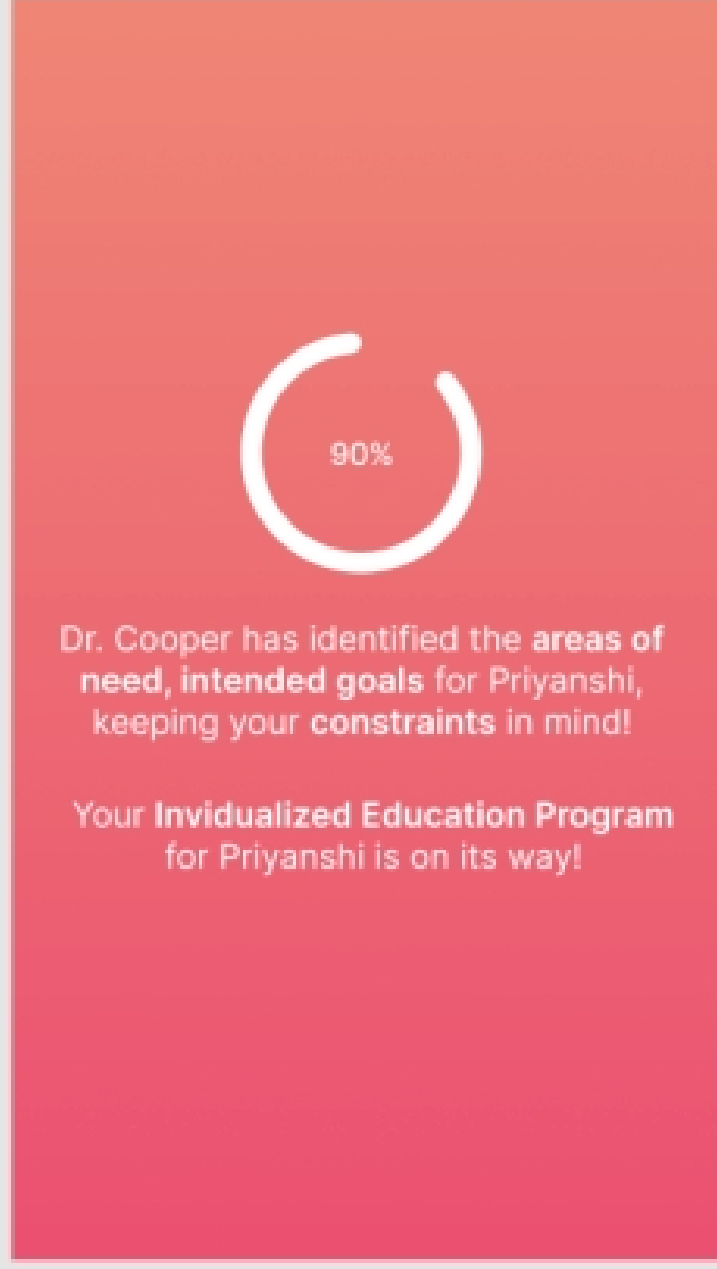
7



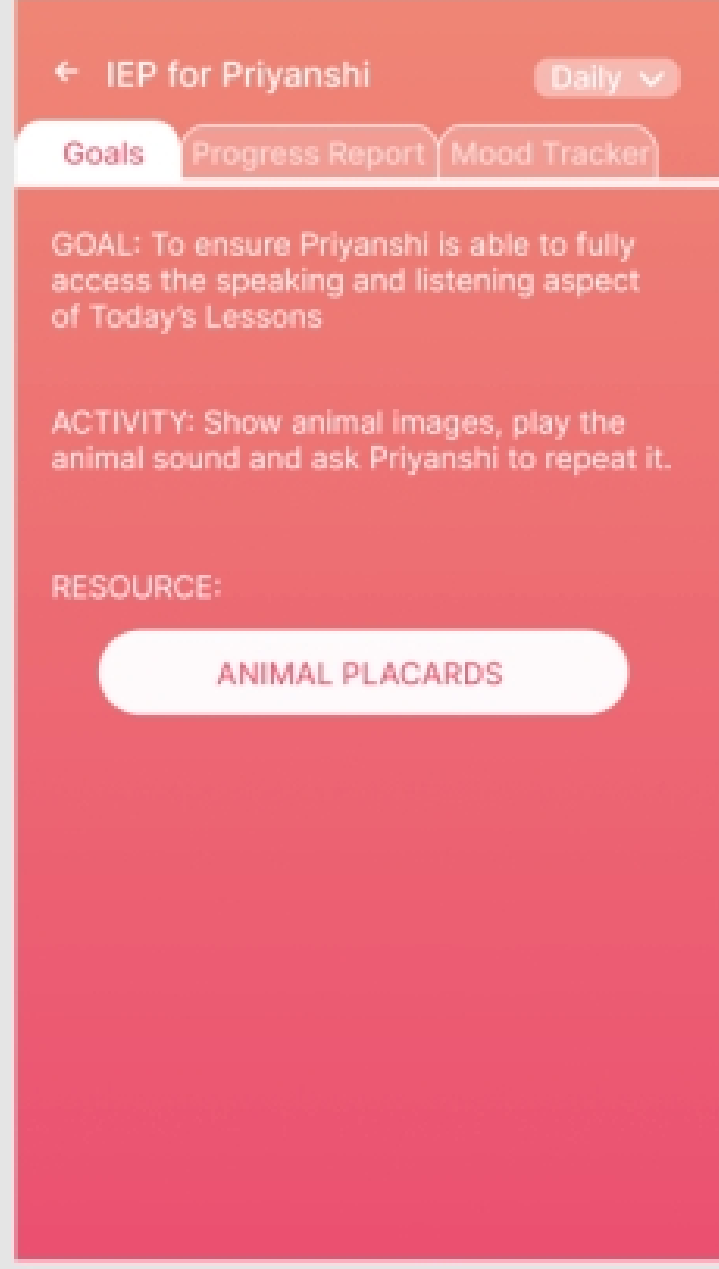
8



9



10



Meet Guru! an app to empower parents of children with Developmental Disabilities to facilitate education by providing a tailored support and guidance platform through child development experts.

While this is made keeping children with special needs in mind, it is not limited to them and can benefit any child





### **How it works:**

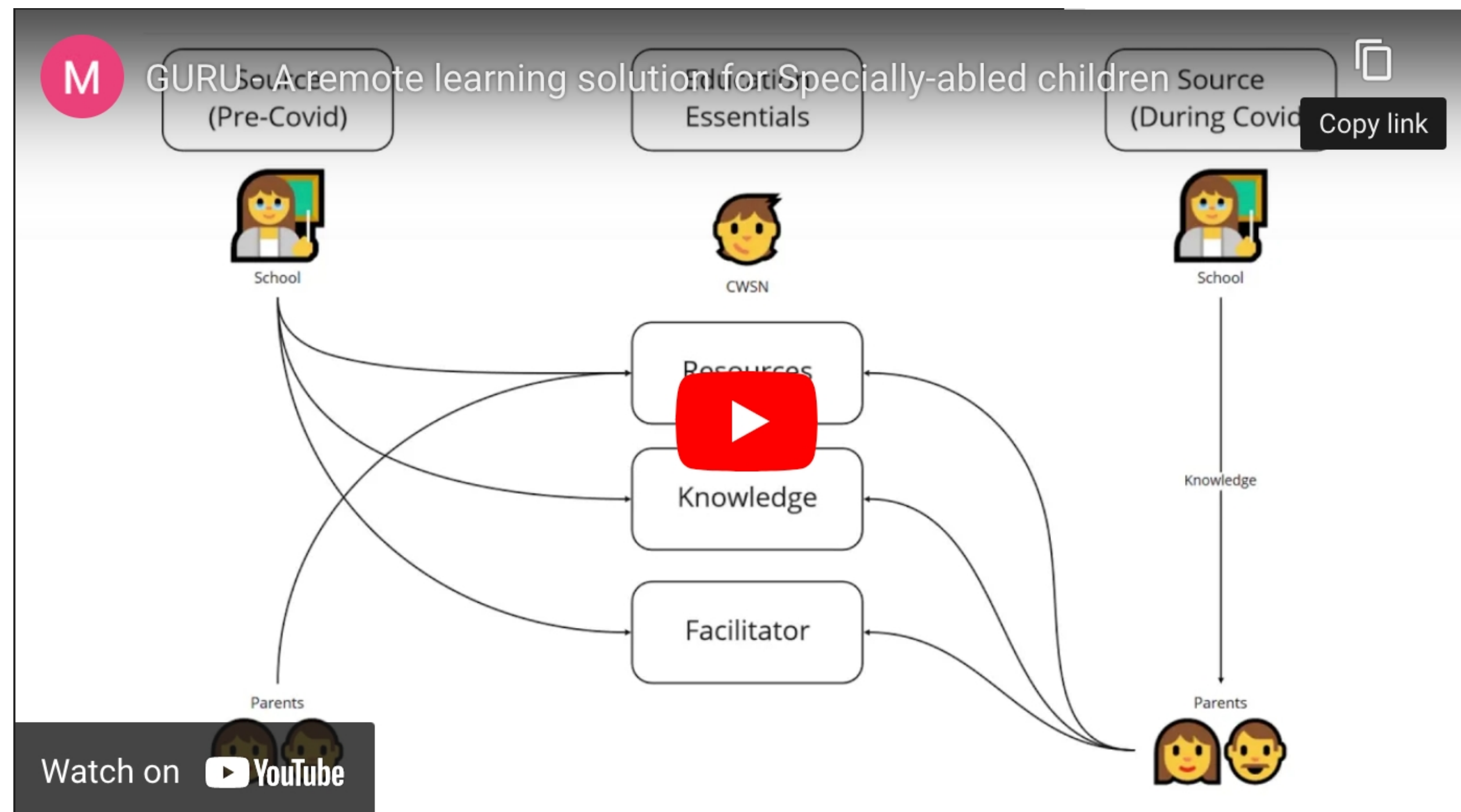
- The parent enters their Child's details
- The app provides a child developmental milestone assessment plan according to the child's details in form of a simple progressive questionnaire
- The output of the milestones is generated as a report which is reviewed by experts(educators, therapists, health coordinators)
- An analysis report is developed depending on the needs and abilities of the child and discussed with the parent.
- The parents/facilitators constraints, preferences and availability are noted to generate the daily action plan.
- Activities and goals are set on a daily/weekly basis which is tracked through the app.
- The app provides resources, support and guidance to facilitate the activity.
- The child's progress is constantly recorded and tracked by the app, this helps the specialist to monitor child activity and tailor the plan accordingly on a rolling basis.
- Apart from a mandatory monthly session with the special educator the parent can seek support through a call or message through the app at any point of time. The app would recommend specialists based on the need, language and location preferences of the parent.
- This would translate into a continuous process in the child's development that can be facilitated by anyone from anywhere while empowering the caregiver to engage the child in a positive and effective way.

### **Whom it impacts:**

- Empowers parents by providing them with adequate quality resources to help facilitate development for their child
- Allows Specialists to understand the needs and abilities of the child to provide a tailored plan with high impact ability
- Fosters a safe and engaging learning environment at any point from any place for any child to develop

As part of the valuelabs designathon we have developed some of the app interfaces that you can view above to get a feel of the experience





## CONCEPT VIDEO

Being a little technologically handicapped, we faced quite some challenges while making this video. It was a fun process with the adrenaline rush and last minute jugaad. A special shout-out to Urvi's brother to help us out!

It is interesting how the theme of hope and resilience reflected and was retrospected throughout this journey of ours for which we thank ValueLabs.

<https://youtu.be/TTJULpBuXkw>



# Thank You!



<https://lightanddark-designathon.tumblr.com/>