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CASE STUDY

Digitizing record keeping in the classroom

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Roles: Research, Design, Engineering (solo project)

PROBLEM

The Orange County Department of Education's special education department wanted to improve the way instructors were tracking students' progress.

Teachers were using paper evaluation forms that were cumbersome to manage and limited teachers' ability to customize goals to fit each student's unique needs.

SOLUTION

A web app that allows teachers to manage students' academic and behvarioal goals, log evaluations digitally, and track student progress over time.

IMPACT

The ability to submit evaluations with their phone increased the total number of evaluations submitted by more than 30%.

Better records ensured compliance and protected the school against litigious parents.

CONTEXT

When a student enters a U.S. special education program, they receive an Individualized Education Plan, or **IEP**, a document that outlines the student's needs and the goals the school must help the child accomplish.

PARENTAL CONCERN

Parents want to know that their child is getting the resources they require and that the school is holding itself accountable for the their child's progress.

ADMINISTRATION FEARS

Schools are regularly sued by parents who feel their child's needs are not being properly met.

INSTRUCTOR FRUSTRATION

Teachers want to keep accurate records, but their time is limited and they prefer to put energy into teaching rather than bureacratic tasks.

Need finding

Design Questions

Why aren't teachers tracking student progress in the proper way?

How might we encourage more accurate record keeping?

Process

Interviewed two admins, five teachers, three behavior analysts and two parents

Reviewed examples of student IEPs and evaluation forms

Competitive analysis of goal tracking software

Observations

Older instructors are uncomfortable using unfamiliar software

Paper evaluation forms require two hands (or a —— desk) – a challenge for teachers walking around a classroom.

Goal descriptions are quite lengthy.

Behavior analysts manage creation of individualized education plans and are most invested in a solution

Design Principles

Any software solution needs to be simple and easy to use

Logging evaluations needs to be straight forward and designed for mobile phones

Allow teachers to import goals or copy and paste text from their desktop.

Software alone will not solve the problem. More process and accountability are needed

"The problem is more than 'lack of technology'.... There is no process for tracking student progress... and very little oversight for teachers."

– Jenny, Special EducationDept Director

"I feel like the nanny state.... I have to hound the teachers to get me their evaluations."

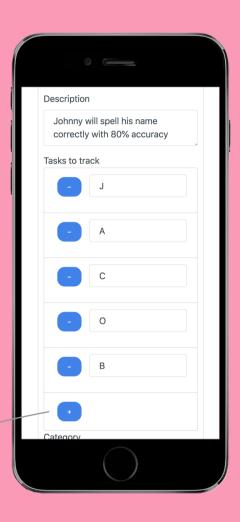
Ross, Applied Behavior Analyst

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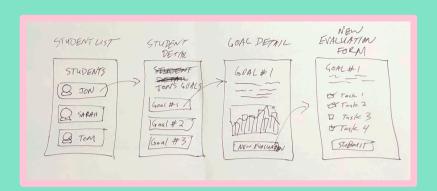
Flexible templates

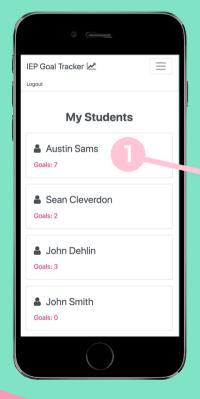
Paper evaluation forms force teachers to break goals into 5 or 10 subtasks

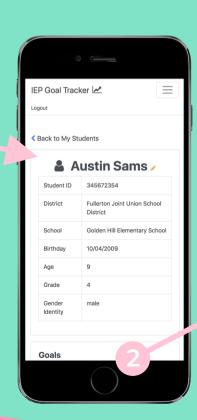
	STRUCTIONAL PLAN - 5 TRIALS
	TICS—READING COMPREHENSION
Student: Date of Initial Instruction: 12/15/15	Instructor: Projected Date of Accomplishment: 12/2/16
respond correctly to 4 of 5 simple questions observation	age consisting of a minimum of S sentences, with will use his communication desire about what he has read over 5 consecutive trial days as measured by data collection in
	e consisting of 2 sentences, 3 consecutive trial days e consisting of 3 sentences, 4 consecutive trial days
Progress Bata	Correct Response with Breakdown of Short Term Objective Instructional Strategies
Dat 1 2 3 4 5 # X	Specific Stimuli:
69/04 x x * * * 0 2 2	→ 1 evaluation
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	Attending Behaviors:
11111	Prompts:
	Response Cue:
Tacks tracked	per evaluation (5)
I dana Li deneu	
	Response Prompts:
	Correction Procedures:
	1
	Reinforcement:
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X = met the breakdown of short term objective	Mostery:



Digital solution allows goals to be broken into as few or as many tasks as needed



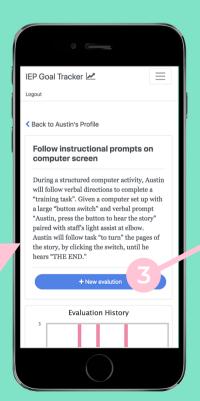


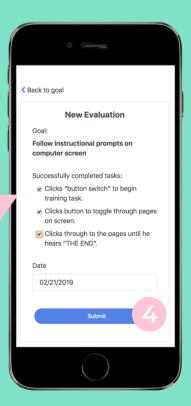


Quick and simple

Paper evaluations require a surface to write on, two hands and shuffling through dozens of forms.

Log an evaluation in 4 taps.





Real-time data visualization

- Parents expressed a desire to receive updates more frequently than their child's quarterly report cards.
- Behavior analysts complained that teachers rely on "gut checks" rather than data.
- Even teachers who tracked goals religiously had trouble synthesizing their results at the end of each quarter.

The animated charts provide sense of student progress at a glance.

