



INSIGHTS TO ACTIONABLE DATA

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PROBLEM TO SOLVE

Getting clarity about Clarity. Defining the initial scope and requirements to build a clear and concise RFP allowed us to formulate and convey a clear picture of critical success factors and defining the scope enabled us to build a framework for managing a successful system implementation. Our RFP became a working project plan.

Stakeholders have access to source systems that provide data but the systems do not support action. What we found is that many questions that support self efficacy are very hard to answer using just one source system.

Do you have any missing assignments?

How are my students doing in class?

Are my students on pace?

How much effort is my child putting into their online course?



For more information, scan QR code.

CLARITY OF VISION

Connected data that is intertwined with business rules to create information that is actionable. The connection of perception (survey data), engagement (data analysis user activity), and academic (LMS, Assessment system) data will provide end users with actionable insight as well as store incremental data that can be used to understand behavior we have previously been able to piece together.



The vision of Clarity is to bring perception, engagement, and academic data together to provide actionable interaction with the information leading to supporting self-efficacy.

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DEMONSTRATE SUCCESS

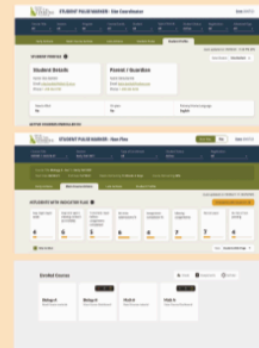
Demonstrate a successful process for gathering end user functional requirements to build actionable GDS reports...

Listen for actions that can be simplified through data - identify pain points with an emphasis on actionable data. At the same time build a data warehouse that will support predictive and prescriptive analytics.

Gathering functional requirements included;

- Source system analysis and content expert discussions in order to build a framework for gathering end user functional requirements.
- End user in depth interviews w/ specific questions based on the source system analysis.
- Create initial rough mock up based on in depth interviews and gather input from content experts.
- Additional analysis on functionality identified by end users.
- The key to fostering the community is through conducting a focus group session with specific questions and analysis of the mock up.
- Content and data expert analysis of business rules around data points and thresholds determined to increase usability of the data.
- Wireframe initial.
- Input from content experts, end users, and members in the organization who work with end users.
- Final Wireframe review session.
- Build report in Google Data Studio.

ILLUSTRATE WORKFLOW



"What we are recommending is starting with the **actions** or **decisions** your stakeholders desire and what **insight** is necessary to provide that action which ultimately drives the **data** that is needed to make the necessary actions or decisions."

- Mark Masterson, VP LearningMate

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CHALLENGES

The path to Clarity has not been without challenges working with the data, systems, and technology.

- Accessing and then updating the data from source systems can be challenging.
- Data security, privacy and governance become more important and challenging.
- The architecture of the system is complex and much of the technology used is new.

NEXT STEPS

- Alpha testing this spring, go live with a sample group of teachers this summer, and then full rollout in the fall.
- Conduct research this summer using a sample group of teachers who use Clarity student pulse reporting and the results of the research will be used for continuous program improvement.
- Share with the education community - we will **open source** the entire solution

FUTURE

"Beyond the initial deployment, I hope to begin bringing in content information from CourseArc, tracking learning pathways and outcomes, and supporting Machine Learning (ML) around interventions that have an impact on learning. My greatest hope is that we can track interventions and begin recommending interventions at the right time for the right reasons. A great start on that is smart data delivery we are doing now in portals by only displaying the Clarity alerts specific to that student. While this is currently rule based, in the future it could be ML based. Additional ML features could support communications and tutoring recommendations."

- Ryan Gravette Dir of Tech for IDLA