Path to Data-Driven Solutions

STEMPATHS

Information School
UNIVERSITY of WASHINGTON

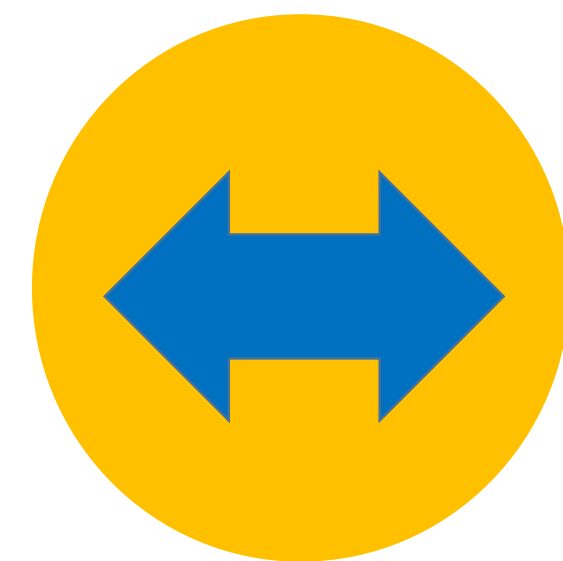Ashwin Satyanarayan   Meadow Rodriguez Jr.
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THE PROBLEM

SECURITY CONCERNS

Student data are collected on paper forms and stored in file cabinets. This exposes operations to threats such as loss and mishandling.

INFO RETRIEVAL & BI

No mechanism in place for efficient on-demand information retrieval. Once collected, difficult to make sense out of data as customer base grows.

OPERATIONAL SILOS

STEM Paths hold workshops across different locations in Washington. Absence of a centralized mobile repository produces operational silos.

ORGANIZATION CREDIBILITY

Sponsorship support and confidence are retained by consistent trackable progress of the organization.

THE SOLUTION

WEB FORMS

Web forms provide easy-to-use interfaces for employees by facilitating the data collection process. Additionally, this allows for validation and incorporating business logic.

DATABASE ON CLOUD

A database tailored to meet STEM Paths's data collection requirements has been designed and stored on the cloud. Highly scalable, secure and replicable.

VISUAL INSIGHTS

A dashboard for consolidating and visualizing census format data. Brings ability to visualize demographic distribution, track student attendance and assist in business decisions.