# A State Guide to Building Online School Report Cards

A 12-month, development to launch guide to creating a next-generation school accountability reporting tool under ESSA



The Every Student Succeeds Act (ESSA) directs states to create report cards that are easy for parents and the public to access and understand. Additionally, states are required to provide more school-level data than ever before by highlighting multiple indicators of student performance, funding, teacher quality, post-secondary success, and more all in a parent-friendly format.

The timeline below outlines the necessary steps toward creating an ESSA-compliant report card (a full list of ESSA reporting requirements can be found <u>here</u>) that is accessible and quality within a 12-month period. This timeline integrates four streams of interconnected work: feedback and engagement; design and content; data; and functionality and development. Resources are provided below on each stream to look to for advice and information during the development process.

The streams of work are presented in four phases: gathering of requirements; design and content development; building, testing and launch; and sustainability and enhancement. Effective project management is critical for the development of a high-quality report card, and no one team within a state agency can do the work alone. These interconnected streams of work require close coordination of a robust project team of data experts, designers, developers, policy and communications experts, parents and community stakeholders.

## What You'll Find in This Tool:

- Step-by-step process for designing a high quality report card.
- Process organized by four streams of interconnected work: Feedback and Engagement; Data; Design and Content; Functionality and Development
- Resources to guide your work.
- Glossary to define and clarify technical terminology.













# Phase I: Gathering of Requirements



### Months 1–3



## Phase II: Design & Content Development

#### Months 4-6



# Phase III: Building, Testing & Launch

#### Months 7-9



### Phase IV: Sustainability & Enhancement

### Month 10 and Beyond



### Glossary

### Data, design and development terms commonly used in online report card projects.

Application Program Interface (API): An API is a set of instructions for accessing data in a database. APIs provide standardized "building blocks" of data that can be used to build many different types of websites. The use of APIs also makes combining multiple data points easier, exponentially increasing the value of those data sets. For example, Google Maps data is connected to numerous apps and websites via APIs that allow those apps and websites to combine their data with the Google Maps data.

**Front End Design:** Think of a website or web tool as having two sides. The front end design is what a user or visitor sees. A front end designer makes deliberate decisions, informed by user experience (UX) best practices. These best practices inform where on the page information is displayed, how users navigate from one part of the web page or tool to another, and how information is prioritized.

**Back End Code:** Think of a website or web tool as having two sides. The back end code is the engine of an online tool or website. This code does all the unseen work of accessing the API, inserting the data into a page and showing that page to the user on the front end.

**Beta Tool:** A beta tool is like a first draft. Once front end design and back end code are complete, developers test a beta version of a website or tool. The website is not complete, and bugs are to be expected, but the point of a beta is to ensure that the user experience aligns to user expectations. Developing and testing a beta tool is a development best practice.

**Content Management System (CMS):** A CMS provides a human-friendly way to manage the content that goes into a website, such as text, photos, video, etc. By creating a system that can manage this content, a CMS enables non-developers to update, delete and create new website pages and easily add content throughout the site.

**Data Catalog:** The written documentation and inventory of the actual data points available to power an API, and how developers can access them, is called a data catalog. A quality data catalog includes business rules that define where data comes from, parameters regarding its content, and how it is computed.

**Business Rules:** The business rules are the guidelines that describe proper use of data, including when certain data should and shouldn't be used, how data points interact and when data is considered out of date.

**Data Repository:** A data repository is a collection of multiple, but related databases accessed by an API used to power a website.

**Sitemap:** A sitemap is a visual flow chart showing the structure of how information will be organized on a website. A sitemap allows developers and designers to work from a common understanding of which pages link from a main page, which pages link from a subpage, and so on.

**Wireframe:** A wireframe is a visual representation of how a single web page type will be organized. For most websites, three to five wireframes are developed for various page types, such as the homepage, a news page or other interior page. Wireframes are turned into templates by the front end designers, and used repeatedly throughout the site.