

## REDCap 11.1.8 LTS Changes and Improvements:

- **Project Dashboards** – Pages that display dynamic content that can be added to a project. Project Dashboards can utilize Smart Functions, Smart Tables and Smart Charts to perform aggregate mathematical functions
- **Smart Functions** – Aggregate functions that are applied across all records in a project. Smart Functions can be used anywhere in a project where pipping is allowed. The following is a list of Smart Functions and their equivalent mathematical functions:
  - **[aggregate-min]** – Minimum
  - **[aggregate-max]** – Maximum
  - **[aggregate-mean]** – Mean/Average
  - **[aggregate-median]** – Median
  - **[aggregate-sum]** – Sum
  - **[aggregate-count]** – Count
  - **[aggregate-stdev]** – Standard Deviation
  - **[aggregate-unique]** – Unique Count
- **Smart Tables** – Displays descriptive statistics for fields with each with each field as a row in the table. The following columns are displayed by default: **count, missing, unique, min, max, mean, median, stDev** and **sum**. All columns are displayed by default.
  - *Smart Tables use the smart variable **[stats-table]** that will accept one or more field types as a parameter such as **[stats-table:age]**
    - *The smart variable **[stats-table:height,weight,race,gender]** will display a table with four rows of the field types height, weight, race, and gender.*
    - *To display only certain columns use a colon after inputting the field parameters. The smart variable **[stats-table:age,weight,height:mean,stdev]** will show a table with the age, weight, and height fields as row with only the mean and stdev columns appearing.**
- **Smart Charts** – Can be used to display different types of charts for one or more fields in a project. A few examples:
  - **[scatter-plot: field\_1,field\_2]** – Displays a **Scatter Plot**
  - **[line-chart:field\_1,field\_2]** – Displays a **Line Chart**
  - **[bar-chart:field\_1]** – Displays a single multiple choice **Bar Chart**
  - **[pie-chart:field\_1]** – Displays a **Pie Chart**

- **New Action Tag: @INLINE** – Allows a PDF file or image file that is uploaded to a file upload field to be displayed in an inline manner on survey pages or data entry forms.
  - **Width and Length** – *The @INLINE action tag's width and length can be altered by either percentages or pixels*
    - **@INLINE(50%,300)** – *Sets the file/image at 50 percent width and 300 pixels in length*
    - **@INLINE(500,250)** – *Sets the file/image at 500 pixels wide and 250 pixels in length*
    - **@INLINE(325,70%)** – *Sets the file/image at 325 pixels wide and 70% length*
- **@PREFILL is now @SETVALUE** – The @PREFILL action tag has been renamed @SETVALUE, which more accurately captures how it behaves. This change is backwards compatible so that projects already using @PREFILL will still work with its legacy counterpart. @SETVALUE will be the preferred name going forward.
- **Field Bank** – Users will see a new option called **Import from Field Bank** button when adding fields in the online designer. This feature allows users to search different standardized catalogs of commonly used fields, such as the U.S National Library Medicine catalog.
- Users can now set **Custom Offline Messages** in the survey settings page
- Survey responses can now be prevented from saving if the survey ends via **Stop Action Controls**
- A new **PDF Print** option that produces an improved web-based PDF of selected instruments has been added
- It is now possible to **Import / Export Alerts** in the same project or to another project in the new dropdown option under My Alerts
- Users can now **reorder alerts** in the alerts option menu
- Reports now feature **Built-in Live Filters** when viewing reports **A or B**
- When viewing the calendar popup menu that is attached to a record a new option called **View Record Home Page** will allow users to navigate to that specific record
- Users can now set **custom minimum/maximum** integer for the slider fields