Kelsey Pritsker

kpritsker@gblsys.com

Abstract

This document strives to address all design questions and requirements necessary for the development of the software tools team product.

Software tools design document

2018

Contents

[Introduction 2](#_Toc506296085)

[Components 2](#_Toc506296086)

[Input 2](#_Toc506296087)

[Custom Components 2](#_Toc506296088)

[Colors 3](#_Toc506296089)

[Typography 3](#_Toc506296090)

[508 Accessibility Compliance 3](#_Toc506296091)

[ID Tool 3](#_Toc506296092)

[Overall Layout 3](#_Toc506296093)

[Multi-Select Editing 4](#_Toc506296094)

[Validation 4](#_Toc506296095)

[Filtering 4](#_Toc506296096)

[Customizable Layout 4](#_Toc506296097)

[Right Click Functionality 4](#_Toc506296098)

[Merged Sub records 4](#_Toc506296099)

# Introduction

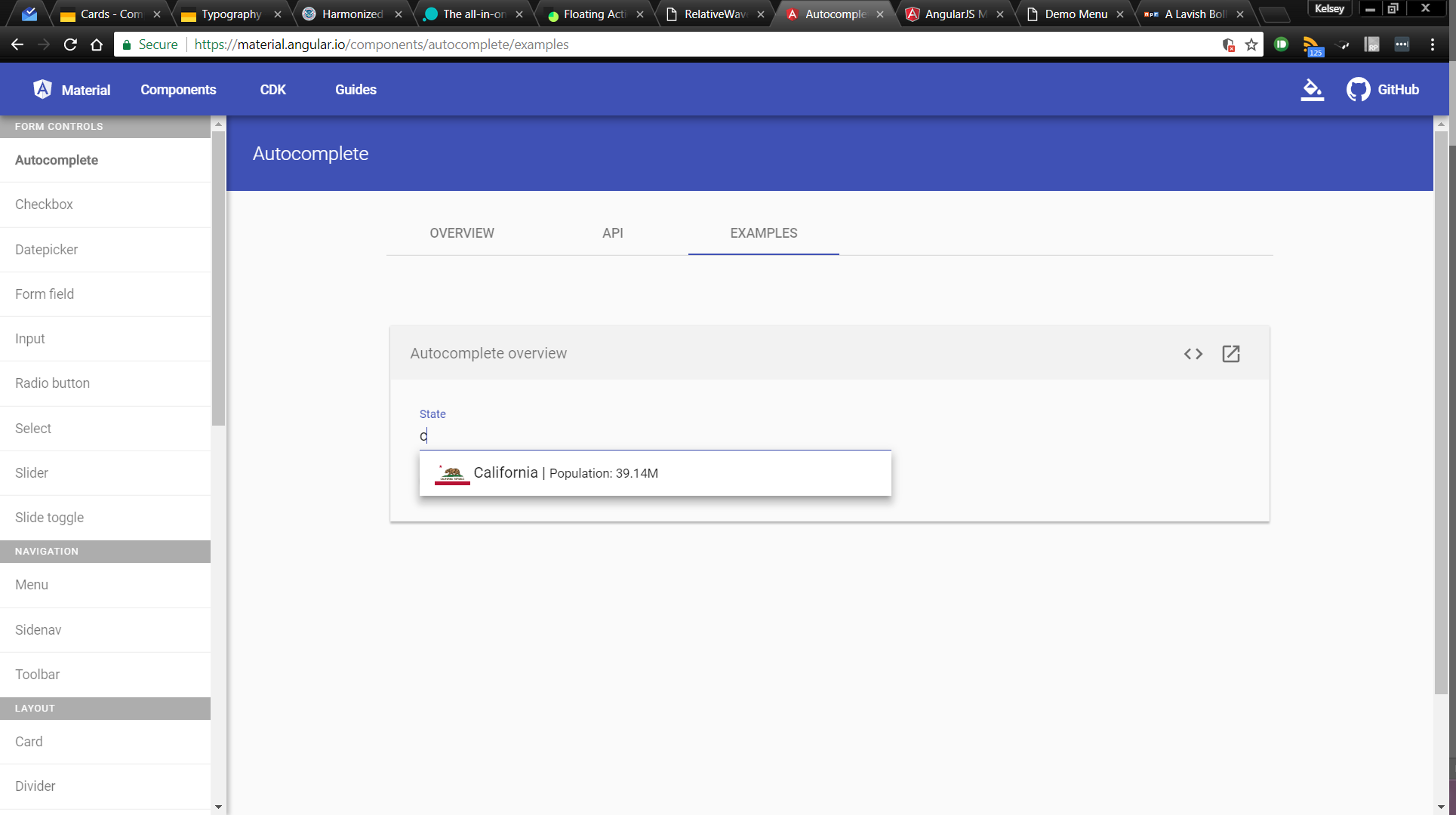
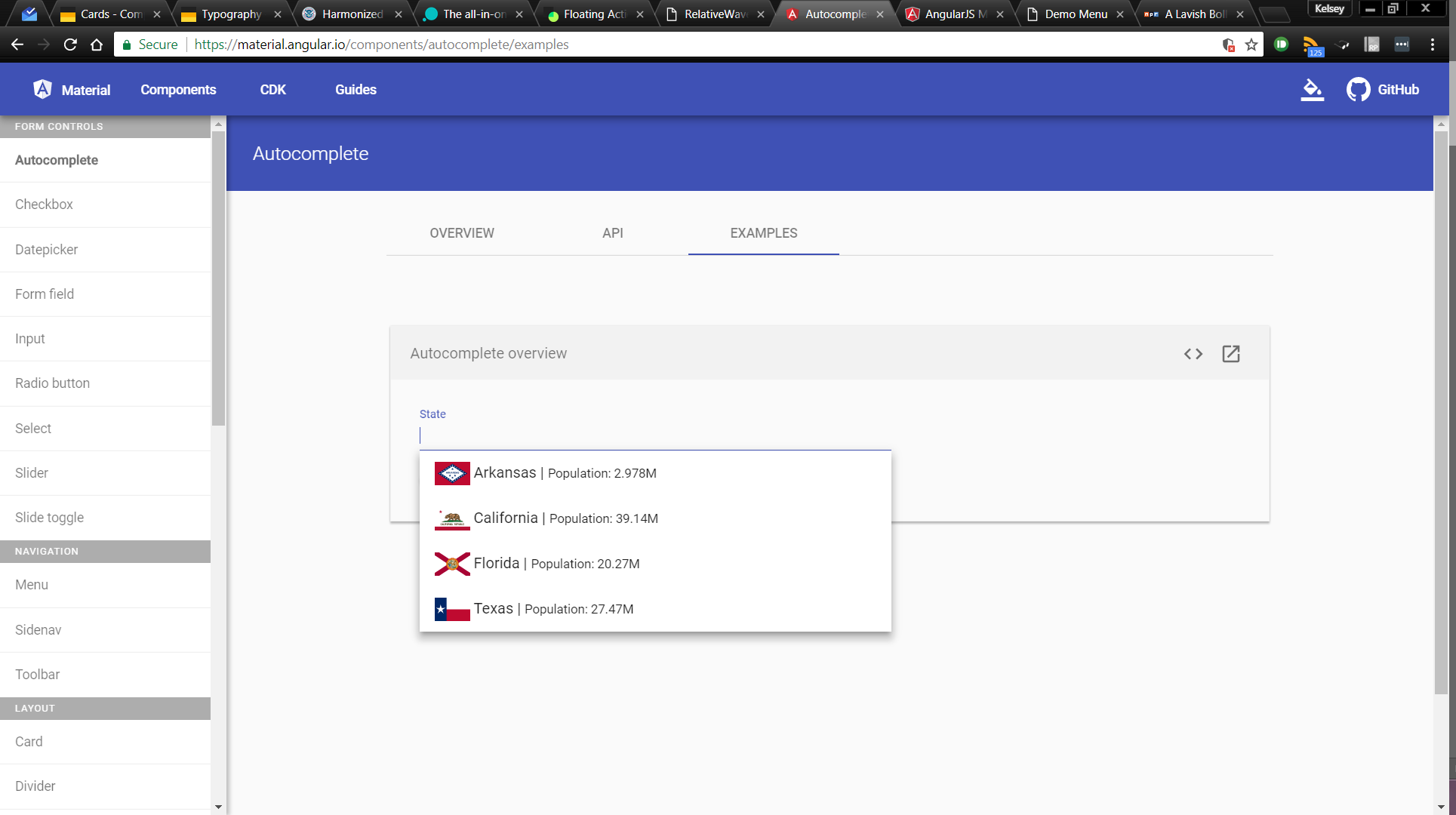
Purpose, intended use, angular info

# Components

Most components are adapted directly from [Material Design components for Angular](https://material.angular.io/).

## Input

### Auto Complete

Auto Complete is a text field along with a drop-down panel of suggested options. These options narrow as the user begins to type. This type of component will be used in all “search fields”. [Online examples](https://material.angular.io/components/autocomplete/examples)

### Checkboxes

Check boxes have three states: true, false, and intermediate. Check boxes that are true or intermediate are in the theme’s accent color. A checkbox’s associated text is used for accessibility purposes. Checkboxes without text should be given a description using defined accessibility labeling. [Online examples](https://material.angular.io/components/checkbox/examples)

### Form Field

##### Error State

### Radio Button

### Select

### Slide Toggle

## Custom Components

Tree structure,

# Colors

Primary Color: Secondary Color:

# Typography

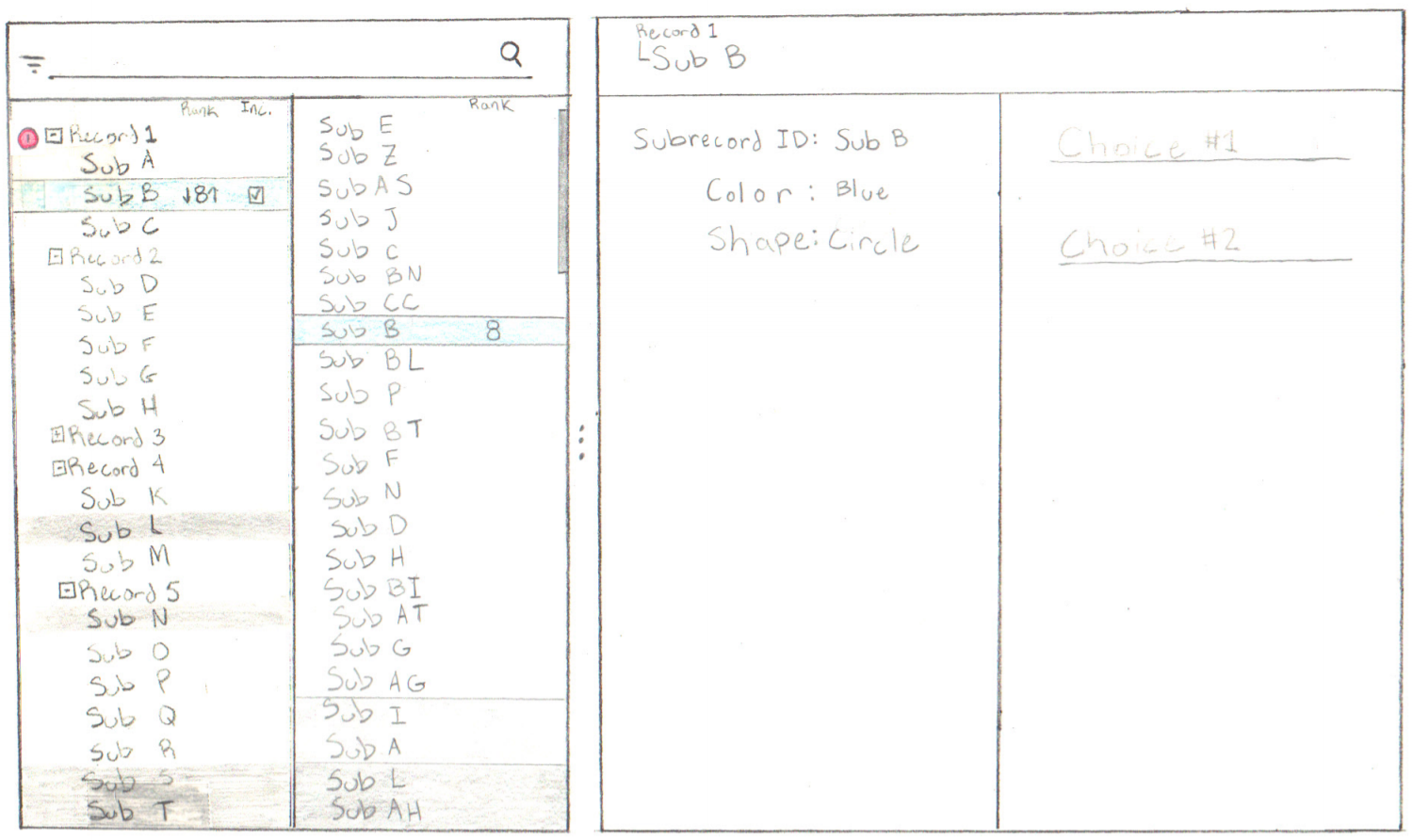
Read only, editable, titles, subtitles, bi-directional text required?, etc. Font: Consolas

# 508 Accessibility Compliance

<https://www.dhs.gov/sites/default/files/publications/Baseline_Tests_for_Software_and_Web_Accessibility_3.pdf>

# ID Tool

## Overall Layout



The primary purpose of the ID Tool is to allow a user to view data associated with records and sub records as well as manage their editable data individually or in groups. The overall layout of this tool consists of two cards: the “selection card” (left) and “data card” (right). The selection card is made of two column lists used to select one or many records/sub records. Information shown on the data cards reflects data associated with the selected values.

### Selection Card

The selection card consists of two lists used to select one or many records or sub records. A selection on one side, automatically selects the same item on the other, and scrolls to it. A search field and filter menu icon is included on top to alter the data viewable in either column.

##### Tree List

The first list, called the “tree list”, shows all records and their children sub records in a hierarchical tree form. Each record chunk can be expanded or collapsed for the user to only view desired sub record groupings.

##### Rank List

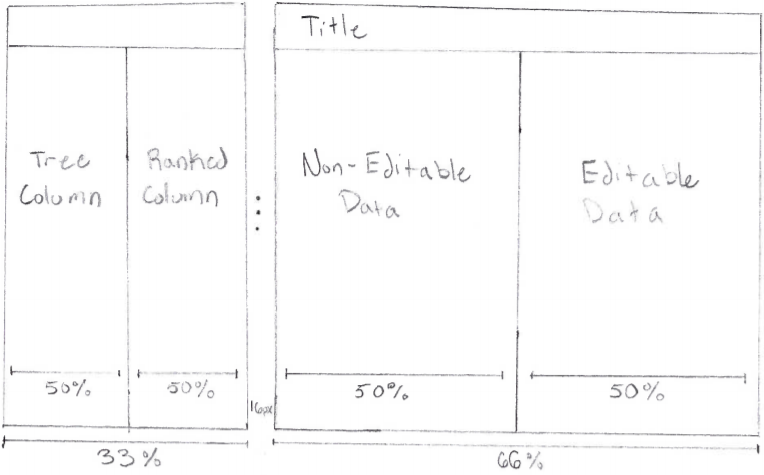
The second list, called the “rank list”, shows all sub records in rank order. Rank is a non-repeating, sequential number derived from the priority of each sub record. This list is divided into “included” on top followed by the “excluded” group below it. Each is ordered by rank. The “included” collection is also cut into two sections indicating the sub records that would be left out based on “best fit” function calls. The contents of each of these halves is recalculated each time any sub record changes its rank or include/exclude value.

### Data Card

Information shown on the data card reflects data associated with the selected record(s)/sub record(s). This includes editable data on the left and editable fields on the right. Upon multi-selection, the information shown reflects the intersection of all items selected and changes made to the editable fields apply to all.

### Dimensions

The tool will load with default widths of 33% for selection card and 66% for data card of the available window space. They will also be separated by 16px.

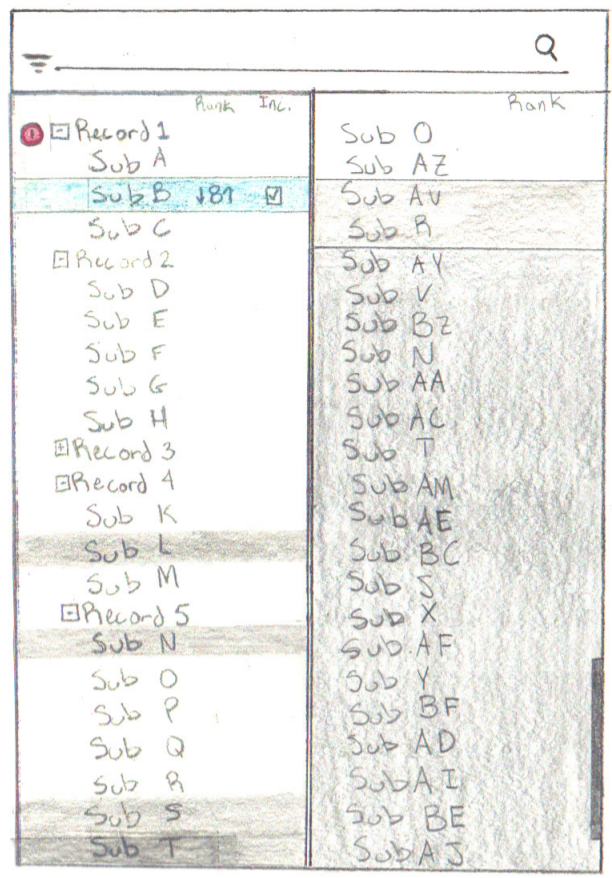
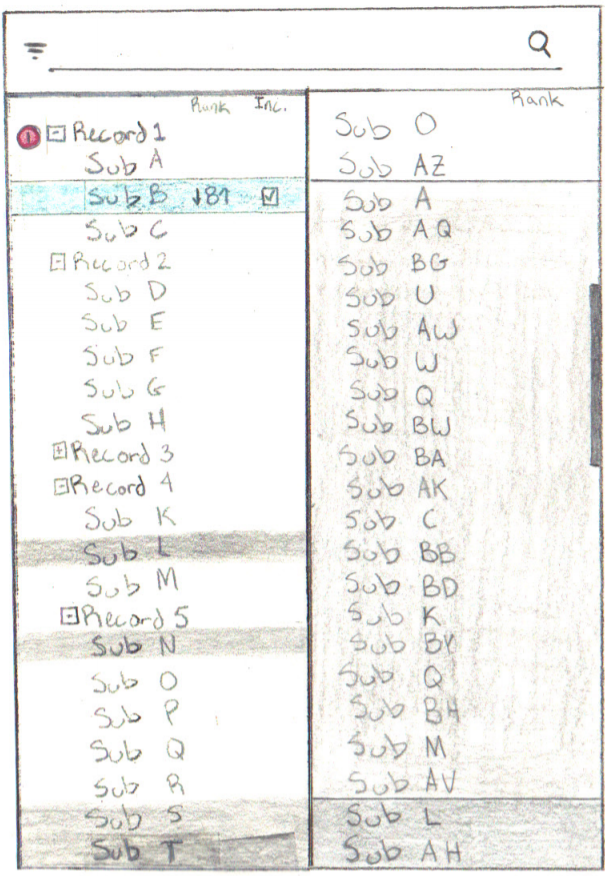
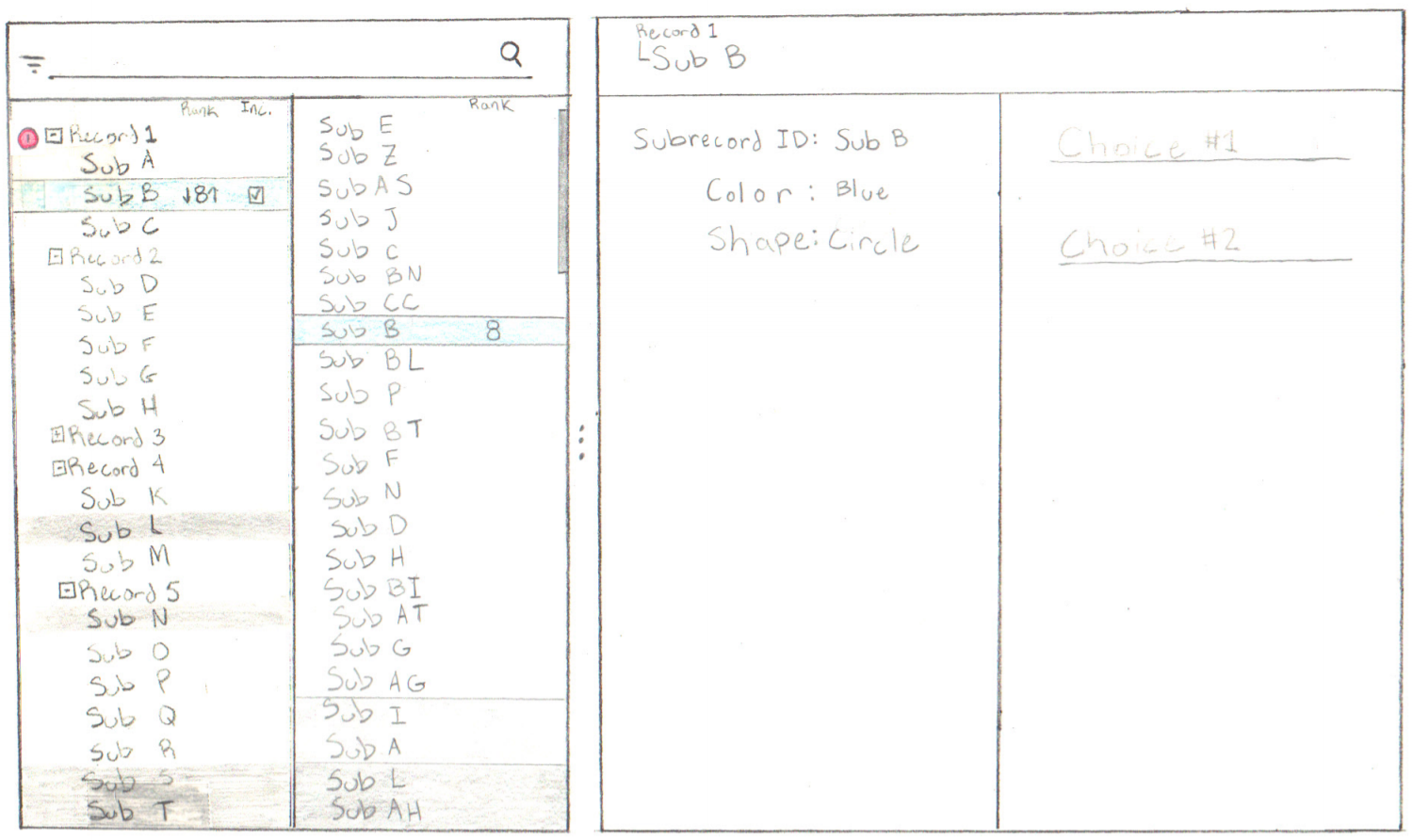


The gap between cards contains a resizing handle composed of three vertical dots. A user can resize each side by clicking and dragging this handle horizontally within bounds.

### Scrolling

This tool contains three scrolling sections. Both columns in the selection card scroll independent from each other when necessary, and both sides of data within the data card scroll together.

The rank list column has special scrolling functionality. At least two sub records from each of the three sections (included, out of bounds, and excluded) will be visible at all times. As a user scrolls, sections above or below the current active section expand or collapse as its list ends.



## Multi-Select

“Multi-Select” refers to the selection of multiple records or sub records allowing for the user to quickly edit all items in the group.

## Validation

## Filtering

## Customizable Layout

## Right Click Functionality

## Merged Sub records