# **Custom Picker Exercises**

**Exercise 1: Custom Pickers**

In this exercise you will build a custom picker to select a part using typeahead. Instead of using a dropdown with a very large list, it may be more useful for users to type in a few letters and see the available parts. Remember, when using more complicated expressions, a lot of the work is already done for you. For extra help, take a look at the SAIL Recipes in the documentation.

<https://forum.appian.com/suite/help/16.1/SAIL_Recipes.html#Configure_an_Array_Picker>

Once you can build a single picker, incorporate it into the editable grid from exercise 6. Use the SAIL recipe in the Forum documentation as a guide to build the supporting rules. Your interface should adhere to the following requirements:

1. Building a custom picker
   1. Create two supporting rules from the SAIL recipe to build the custom picker.
   2. Copy the main rule to create the custom array
      1. Add a rule input for the part id that is getting saved (make it single, since you can only request repair of one part per request)
      2. Replace local!stateNames and local!stateAbbreviations with a query rule to retrieve all the parts and ids
      3. In the suggestFunction, update the labels and identifiers to call the parts local variable
      4. Make sure the user can select a maximum of one car part
      5. Since they can select only one car part, we don’t need to use apply() to generate selectedLabels--we aren’t applying over a list, but just getting the name for the one partId. Remove the apply reference, and just call the rule, passing in ri!part as the input.
2. Add a picker to the editable grid. Update the gridRowLayout() rule from exercise 6 to call the custom picker field instead of the dropdown field