Example Project Editable Table

Contents

1 Overview

In this project it is shown how a table can be made editable for the user.

2 Details of the project

The table object in the Projektor Tool is not editable. So some trickery has to be used to create the impression that it is.
This is done by creating a set of transparent buttons in the places where the elements of the table are displayed. With these the user can already “browse” between the visible elements of the table. When such a button is pressed, a second frame with a numeric field is displayed, which can be edited by the user. The value will then be put into the table array at the appropriate position.
Also, rows can be added and removed, and the user can scroll through the table (if it is longer than the 4 rows displayed).

2.1 Scripts

2.1.1 init.js

This script is running on the event OnProjektInit. It initializes the all necessary JavaScript variables for calculating the rows of the table and the IDs of the objects that will be manipulated. It also creates two arrays, table_array, which will be the array for the visible table, and data_array, which will contain all actual data (there will be a difference once lines are added). table_array will contain the visible part of the data_array.

2.1.2 edit_value.js

This script runs on the event OnRelease of the invisible buttons that ar located over the table elements. The OnPress action for those buttons sets the variable chosen_button to the appropriate number, so that the script knows which button has been pressed.
The script first calculates the according data row of the button that has been pressed. Then the data string for that row is extracted and cut in such a way that only the data field that is displayed in the selected field is left over. This value is then written into the edit variable and the frame with the numeric field is displayed, while the table is made invisible.

2.1.3 direct_edit.js

is executed on the event OnEnabledWithFocus of the edit numeric field. Normally objects first have to be selected with the encoder before they can be edited. In this example it should be avoided that the user has to press the encoder before changing the value. The event OnEnabledWithFocus of the numeric field will be called as soon as the numeric field is made visible. The script simply executes a “Navigate Confirm” action, i.e. it simulates an encoder press so that the numeric field is directly editable.

2.1.4 accept_value.js

This script is executed on the event OnEnterValue of the numeric field. It is executed once the user confirms the edited value with the encoder. Notice that the script will also be executed if no new value has been entered (hence OnEnterValue instead of OnEnterNewValue). The script uses a lot of variables from edit_value.js. It kind of reverses the process in that script and puts the new edited value into the data array.

2.1.5 add_line.js

This script is executed on the event OnRelease of the soft key 2 left. It adds a new line with default values 1,2 and 3 to the data array. Then it re-calculates which part of the data array is displayed and cuts the data array accordingly.
It also calculates the displayed row region and sets the values of the info string fields.

2.1.6 remove_line.js

This script is executed on the event OnRelease of the soft key 3 left. It removes the last line of the data array, if there are more than 5 lines left. This limitation works around the trouble of removing some of the buttons if the table were only 3 or less rows long. After cutting the array, it re-calculates which part of the data array is displayed and cuts the data array accordingly.
It also calculates the displayed row region and sets the values of the info string fields.

2.1.7 scroll_up.js

This script is executed on the event OnRelease of the soft key 1 right. It changes the part of the data array that is displayed in the table. It uses the variables current_row_start, which always contains the number of the first row that is displayed in the table.
It also calcuates the displayed row region and sets the values of the info string fields.

2.1.8 scroll_down.js

This script is executed on the event OnRelease of the soft key 4 right. It changes the part of the data array that is displayed in the table. It uses the variables current_row_start, which always contains the number of the first row that is displayed in the table.
It also calculates the displayed row region and sets the values of the info string fields.