Revolent Tech Task – Bronze

Lightning Web Components; Events

Scenario

This task explores the concepts of sending events in lightning web components. Events can be sent up from child to parent and down from parent to child. Both examples will be explored in this task.

Requirements

The objective of this task is to create a LWC where each input from the user is rendered as a list item. When the user clicks on one of the list items, the selected item is displayed to the user separately in a large text.

Step 1: Create two Lightning Web Components

In VS Code, first create a LWC called '*parentComponent*' and then create a LWC called '*childComponent*'.

Step 2: Parent Template

In the '*parentComponent'* template, create a lightning input field and a lightning button. The input field should have the following attributes:

Component – Field/Attribute	Value
Input Field - Class	*slds-var-m-bottom_xx-small*
Input Field – Label	*Enter text*
Lightning Button - variant	*Neutral*
Lightning Button - label	*Add*

The button should also respond to an onclick event by calling a handler method called addInputToList.

Next, create a template that conditionally renders the text, you have selected {input} (where input is a variable in the JavaScript). This text renders only if a variable selected is set to true in the JavaScript. The class of the text should be 'slds-text-heading_large'.

Next, create a loop that iterates through an array in the JavaScript called list. During each iteration, the '*childComponent*' is rendered. The child component has a variable called '*inputItem*' that should be set to each element of the array during the iteration. The '*childComponent*' also propagates an event called '*inputitemselect*' that should be handled by the parent in a method called '*handleSelect*'.

Step 3: Parent JavaScript

In the '*parentComponent*' JavaScript file, create a variable called input, and a variable called selected (which should be initialized to false). Create an array called list.

The '*addInputToList*' method should insert the value from the lightning input field into the list array. The '*handleSelect*' method should set the input variable to the value of the detail key of the '*inputitemselect*' event.

Step 4: Child Template

In the 'childComponent template', create a lightning button with the following properties:

Component – Field/Attribute	Value
Class	*slds-var-m-right_x-small*
Icon-Name	*Utility:Event*

The label of the button should be set to the 'inputItem' variable from its JavaScript file. The button should also respond to an onclick event by calling a method 'fireSelectEvent'.

Step 5: Child JavaScript

The JavaScript for '*childComponent*' should contain the '*InputItem*' variable, as well as the 'fireSelectEvent' method, which should fire the custom event '*inputitemselect*'. The value of the event's detail key should be set to the '*inputItem*' variable.

Notes: Ensure that best practices are followed so that governor limits are not hit.

The JavaScript for '*childComponent'* should contain the 'InputItem' variable, as well as the 'fireSelectEvent' method, which should fire the custom event 'inputitemselect'. The value of the event's detail key should be set to the 'inputItem' variable.

Step 6: Deployment

Save your files and deploy the lightning web component.

Step 7: Creating the lightning page

Create a new lightning page called '*DemoPage*' and add your LWC to it.