**Steps to create custom web part property – Add multiple type of properties**

In this exercise we will multiple type of properties in property pane and get its value in web part.

**Step 1:**Edit **WebPartPropertiesWebPart.ts** webpart file and do following changes.

**1.** Import property pane helper methods (PropertyPaneDropdown, PropertyPaneCheckbox, PropertyPaneToggle) to create controls on the property pane.

import {

  IPropertyPaneConfiguration,

  PropertyPaneTextField,

  PropertyPaneDropdown,

PropertyPaneCheckbox,

  PropertyPaneToggle

} from '@microsoft/sp-property-pane';

**2.** Define properties with type in interface **IWebPartPropertiesWebPartProps**

export interface IWebPartPropertiesWebPartProps {

  description: string;

  myDropdown: string;

myMultiline: string;

myCheckbox: boolean;

myToggle: boolean;

}

**3.** Update **render()** method add properties in **createElement()** function to create web part properties. You may get error as properties are not yet defined in React component interface **IWebPartPropertiesProps** in file **IWebPartPropertiesProps.ts.** See step 2 for details.

WebPartProperties,

      {

        description: this.properties.description,

        myDropdown: this.properties.myDropdown,

myMultiline: this.properties.myMultiline

myCheckbox: this.properties.myCheckbox

myToggle: this.properties.myToggle

      }

**4.** Update **getPropertyPaneConfiguration()** and add all the controls in property pane with names specified in interface.

 groups: [

            {

              groupName: strings.BasicGroupName,

              groupFields: [

                PropertyPaneTextField('description', {

                  label: strings.DescriptionFieldLabel

                }),

                PropertyPaneTextField('myMultiline', {

                  label: "Multi line text field",

                  multiline:true

                }),

                PropertyPaneDropdown('myDropdown',{

                  label: 'My Dropdown control',

                  options:[

                    {key:'Red',text:'Red'},

                    {key:'Blue',text:'Blue'},

                    {key:'Green',text:'Green'}

                  ]

                }),

                PropertyPaneCheckbox('myCheckbox',{

                  text:'My Checkbox'}),

                PropertyPaneToggle('myToggle',{

                  label:'My Toggle',

                  onText:'Yes',

                  offText:'No'

                })

              ]

            }

          ]

        }

      ]

    };

**Step 2:** Update React component.Edit file **IWebPartPropertiesProps.ts** inside **components** folder and update interface **IWebPartPropertiesProps.** Add all the properties with type.

export interface IWebPartPropertiesProps {

  description: string;

  myDropdown: string;

myMultiline: string;

myCheckbox: boolean;

myToggle: boolean;

}

**Step 3:** Update React component for webpart. Edit file **WebPartProperties.tsx**. Inside **render()** method update 2 things. Add constant for all properties defined in interface. These const are used in code to render the value inside div.

 const {

      description,

      myDropdown,

      myMultiline,

      myCheckbox,

      myToggle,

      isDarkTheme,

      environmentMessage,

      hasTeamsContext,

      userDisplayName

    } = this.props;

Inside return add html to display values from property pane controls.

  <div>myMultiline value: <strong>{escape(myMultiline)}</strong></div>

  <div>Selected myDropdown value: <strong>{escape(myDropdown)}</strong></div>

**Step 4:** Add a default value for color in **WebPartPropertiesWebPart.manifest.json** file.

  "properties": {

      "description": "WebPartProperties",

      "myDropdown": "Red",

      "myMultiline":"My sample text",

      "myCheckbox": true,

      "myToggle":true

    }

