**Tech Specification For**

**Tabs and Tab Item Component**

|  |  |
| --- | --- |
| **Document** | Technical Specification Document |
| **Application** | ORXe Tabs Component |
| **Author** | Arpita Jain |
| **Creation Date** | 20/9/2020 |
| **Tag Name** | <orxe-tabs><orxe-tab-item> |
| **Version** | V1.0 |
| **Status** | Completed |

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1. **Purpose -**

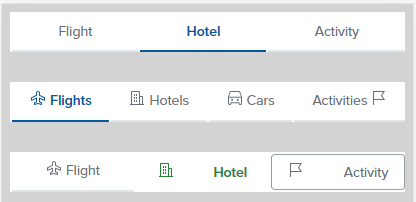
This component will be used to organize content across different screens based on selection of tab.

We can add multiple tabs using <orxe-tab-item>

<orxe-tab-item> is implemented using slot.

There will be two type of tabs, the first Tab with Icon and another Tabs without Icon and that is implemented using slot.

1. **Development -**



1. **Constructor -**

@customElement('orxe-tabs')

**export** **default** **class** OrxeTabs **extends** LitElement {

...

@customElement('orxe-tab-item')

**export** **default** **class** OrxeTabItem **extends** LitElement {

...

1. **Properties for <orxe-tabs>**

Properties which will be exposed by the component. Details of properties are as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Attribute** | **Access Modifier** | **Description** | **Type** | **Default** |
| name | name | public | Set name for a tab. | string | '' |
| orientation | orientation | public | Set orientation for tabs | string | '' |

1. **Properties for <orxe-tab-item>**

Properties which will be exposed by the component. Details of properties are as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Attribute** | **Access Modifier** | **Description** | **Type** | **Default** |
| active | active | public | Set this tab as current active tab | Boolean | false |
| disabled | disabled | public | Set the particular item as disabled | Boolean | false |
| icon | icon | public | This is used to give icon name to apply on tab | String | '' |
| iconSlotRight | iconSlotRight | public | Reverse default direction of both slots (label and icon) | Boolean | false |

1. **Events**

List down all events which component will trigger

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Event Data** |
| Click, keydown | While clicking/keydown on tab change the active property on <orxe-tab-item> | $event |
|  |  |  |

1. **Styling for <orxr-tabs>**

The following custom properties are available for styling:

|  |  |  |
| --- | --- | --- |
| **Custom Property** | **Description** | **Default** |
| --tabs-font-family | Tabs item font family | --global-font-family |
| --tabs-font-color-inactive | Tabs font color | --tertiary-text |

### Styling for <orxe-tab-item>

The following custom properties are available for styling:

|  |  |  |
| --- | --- | --- |
| **Custom Property** | **Description** | **Default** |
| --tabs-icon-active-color | Tab items icon active color | --secondary |
| --tabs-icon-inactive-color | Tab items icon inactive color | --tertiary-text |
| --tabs-item-indicator-color-active | Tab items active indicator color | --secondary |
| --tabs-item-indicator-color-inactive | Tab items inactive indicator color | --separator-01 |
| --tabs-font-family | Tabs font family | --global-font-family |
| --tabs-font-color-active | Tabs active font color | --secondary |
| --tabs-font-color-inactive | Tabs inactive font color | --tertiary-text |
| --tabs-touch-target | Tabs touch target area | --touch-target-medium |
| --tabs-font-size | Tabs font size | 1.4rem |
| --tabs-font-weight-active | Tabs active font weight | -font-weight-semi-bold |
| --tabs-item-color-active | Tabs item active color | --tabs-font-color-active |
| --tabs-item-indicator-height | Tab -item indicators height | 2px |
| --tabs-height | Height of the tab | 40px |

1. **ADA Compliance -**

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Keys** | **Action** |
| 1 | Tab | When the focus moves into the tab list from outside, then the focus is placed on the active tab element. When the tab list contains the focus already, then the focus is moved to the next element in the page tab sequence outside the tablist, which is typically either the  first focusable element inside the tab panel or the tab panel itself. |
| When the focus is on a tab in a tablist with horizontal orientation | | |
| 1 | Space / Enter | Activates the tab if it was not activated automatically or select that tab |

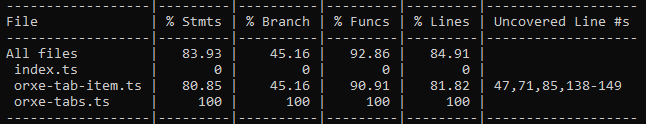
1. **Accessibility Roles and Attributes**   **-**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Attribute** | **Element** | **Usage** |
| 1 | role=tablist | :host | The element that serves as the container for the set of tabs has role set to tablist.  Note: This will be handled internally by <orxe-tabs>. |
| 2 | aria-label=USER-INPUT | :host | Note: This needs to be manually provided by the consumer of component. |
| 3 | aria-orientation=horizontal | :host | If the element has property then it sets to that orientation otherwise by default it set to horizontal. |
| For <orxe-tab-item> | | | |
| 4 | role=tab | :host | Each element that serves as a tab has role tab and is contained within the element with role tablist. |

1. **Test Scenarios -**

There will be having basic test cases for checking default properties and to check for setting properties, activation tabs and for functions like reset properties and getting all tabs. Total test cases for both components are –

**Test Suites: 3 passed, 3** **totals  
Tests: 14 passed, 14 totals**



1. **Usage**

To use the element:

 <orxe-tabs name="tab1">

      <orxe-tab-item disabled>

        <span slot="tab-item-label">Flight</span>

      </orxe-tab-item>

      <orxe-tab-item>

        <span slot="tab-item-label">Hotel</span>

      </orxe-tab-item>

      <orxe-tab-item>

        <span slot="tab-item-label">Activity</span>

      </orxe-tab-item>

    </orxe-tabs>

    <orxe-tabs name="tab1">

      <orxe-tab-item active icon="flight">

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Flights</span>

      </orxe-tab-item>

      <orxe-tab-item icon="hotel">

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Hotels</span>

      </orxe-tab-item>

      <orxe-tab-item icon="car">

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Cars</span>

      </orxe-tab-item>

      <orxe-tab-item icon="activity" iconSlotRight>

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Activities</span>

      </orxe-tab-item>

    </orxe-tabs>

    <orxe-tabs name="tab1">

      <orxe-tab-item disabled icon="flight">

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Flight</span>

      </orxe-tab-item>

      <orxe-tab-item active isChip icon="hotel">

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Hotel</span>

      </orxe-tab-item>

      <orxe-tab-item icon="activity" isChip>

        <span slot="tab-item-icon"></span>

        <span slot="tab-item-label">Activity</span>

      </orxe-tab-item>

    </orxe-tabs>

1. **ORXe Package Details –**

|  |  |
| --- | --- |
| Package | Version |
| npm install -g @orxe3/cli | V2.0.20 |
| npm install @orxe-components/icon | 1.0.14 |
| npm install @orxe-components/icons | 1.0.9 |

1. **Setup Details –**

orxe new component-workspace tabs-assignment2

orxe generate c tabs

orxe serve

orxe test --coverage