

# React Native Event Code Samples

The following events are available to use.

## Metadata Event

Imports `LanguageData` from `@personalization-js-sdk/common`.

```
interface LanguageData {  
  language: string;  
}
```

### Example

```
import React, {useEffect} from 'react';  
import Personalization from "@personalization-js-sdk/react-native"  
import { View , Text} from "react-native" ;  
import { LanguageData ,EventTypes } from '@personalization-js-sdk/common';  
  
const LanguageDataInitial : LanguageData = {  
  language:"en-GB"  
};  
  
const App = () => {  
  const PersonalizationInstance = new Personalization(account, user);  
    
  useEffect = () => {  
    PersonalizationInstance.report (  
      EventTypes.ContextMetadata, {metadata: LanguageDataInitial}  
    ),  
  },[];  
    
  return <View>  
    <Text> MonetateSDK Metadata Event.</Text>  
  </View>  
}  
export default App;
```

## Screen Size Event

Imports `ScreenSizeData` from `@personalization-js-sdk/common`.

```
interface ScreenSizeData {  
  height: number;  
  width: number;  
}
```

## Example

```
import React, {useEffect} from 'react';  
import { View , Text} from "react-native";  
import { ScreenSizeData, EventTypes} from '@personalization-js-sdk/common';  
import Personalization from "@personalization-js-sdk/react-native";  
  
const ScreenSizeDataInitial : ScreenSizeData = {  
  height: 250;  
  width: 500;  
};  
  
const App = () => {  
  const PersonalizationInstance = new Personalization(account, user);  
    
  useEffect(() => {  
    PersonalizationInstance.report (  
      EventTypes.ContextScreenSize, screenSize: {...ScreenSizeDataInitial}  
    ),  
  },[]);  
    
  return <View>  
    <Text> MonetateSDK Screen Size Event.</Text>  
  </View>  
}  
export default App;
```

## User Agent Event

Imports `UserAgentData` from `@personalization-js-sdk/common`.

```
interface UserAgentData {  
  userAgent: string;  
}
```

## Example

```

import React, {useEffect} from 'react';
import { View , Text} from "react-native";
import DeviceInfo from 'react-native-device-info';
import Personalization from "@personalization-js-sdk/react-native"
import { UserAgentData, EventTypes } from '@personalization-js-sdk/common';

const UserAgentDataInitial : UserAgentData = {
  userAgent: "userAgent as string"
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);
  useEffect(() => {
    const deviceName = await DeviceInfo.getDeviceName();
    const userAgent =
`${DeviceInfo.getApplicationName()}/${DeviceInfo.getVersion()}/${DeviceInfo.getSystemName}
`;
  });
  PersonalizationInstance.report (
    EventTypes.ContextUserAgent, {userAgent: userAgent}
  ),
  },[])
  return <View>
    <Text> MonetateSDK User Agent event.</Text>
  </View>
}
export default App;

```

## Coordinates Event

Reports the coordinates of the customer.

```

interface CoordinatesData {
  latitude: string;
  longitude: string;
}

```

### Example

```

import React, {useEffect} from 'react';
import { View , Text} from "react-native";
import Personalization from "@personalization-js-sdk/react-native"
import { CoordinatesData, EventTypes } from '@personalization-js-sdk/common';

const CoordinatesInitialData : CoordinatesData = {
  latitude: "11.2734",
  longitude: "45.2734"
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);
  useEffect(()=> {
    // for manual use
    PersonalizationInstance.report (
      EventTypes.ContextCoordinates, {coordinates: CoordinatesInitialData}
    ),
  },[]);
  return <View>
    <Text> MonetateSDK Coordinate event.</Text>
  </View>
}
export default App;

```

## Referrer Event

Reports the referrer.

```

interface ReferrerData {
  referrer: string;
}

```

### Example

```

import React, {useEffect} from 'react';
import { View , Text} from "react-native";
import Personalization from "@personalization-js-sdk/react-native"
import { ReferrerData,EventTypes } from '@personalization-js-sdk/common';

const UserAgentDataDataInitial : ReferrerData = {
  referrer: "refer"
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);
  useEffect(()=> {
    PersonalizationInstance.report (
      EventTypes.ContextReferrer, { referrer: referrer}
    )
  }, []);
  return <View>
    <Text> MonetateSDK Referrer Event.</Text>
  </View>
}
export default App;

```

## Context Variable Event

Imports `ContextVariablesData` from `@personalization-js-sdk/common`, and reports custom variables.

```

interface ContextVariablesData {
  variable: string;
  value: string;
}

interface CustomVariablesData {
  customVariables: Array<ContextVariablesData>;
}

```

### Example

```

import {useEffect} from 'react';
import { View , Text} from "react-native";
import Personalization from "@personalization-js-sdk/react-native";
import { CustomVariablesData, EventTypes } from '@personalization-js-sdk/common';

const customVariablesInitialData : CustomVariablesData = {
  customVariables = [{
    variable: "x",
    value: "0.1"
  }]
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);

  useEffect(() => {
    PersonalizationInstance.report (
      EventTypes.ContextCustomVariables, {customVariables: customVariablesInitialData}
    ),
  }.[]);

  return <View>
    <Text> MonetateSDK Custom Variables Event.</Text>
  </View>
}
export default App;

```

## Page Event

Reports any events on the page.

```

interface PageEventsData {
  pageEvents: string[];
}

```

### Example

```

import React, {useEffect} from 'react';
import { View , Text} from "react-native";
import Personalization from "@personalization-js-sdk/react-native"
import { PageEventsData, EventTypes} from '@personalization-js-sdk/common';

const PageEventsDataInitial : PageEventsData = {
  pageEvents:["MyEvent"]
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);

  useEffect(() => {
    PersonalizationInstance.report (
      EventTypes.RecordPageEvents, {pageEvents: PageEventsDataInitial}
    );
  }, []);

  return <View>
    <Text> MonetateSDK Page Event.</Text>
  </View>
}
export default App;

```

## Page View Event

Reports when a customer views a specified page.

```

interface PageViewData {
  url: string;
  pageType: string;
  categories: string[];
  breadcrumbs: string[];
}

```

### Example

```

import React, {useEffect} from 'react';
import { View , Text} from "react-native" ;
import Personalization from "@personalization-js-sdk/react-native"
import { PageViewData, EventTypes } from '@personalization-js-sdk/common';

const PageViewDataInitial : PageViewData = {
  url: "www.monetate.com";
  pageType: "cart";
  categories: ["category"];
  breadcrumbs: ["breadcrumbs"];
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);

  useEffect(()=> {
    PersonalizationInstance.report (
      EventTypes.ContextPageView, {...PageViewDataInitial}
    ),
  },[]);

  return <View>
    <Text> MonetateSDK Page View Event.</Text>
  </View>
}

export default App;

```

## Product Thumbnail Event

Reports when a customer views a product thumbnail.

```

interface ProductThumbnailViewData {
  products: string[];
}

```

### Example



```

import React, {useEffect} from 'react';
import { View , Text} from "react-native" ;
import Personalization from "@personalization-js-sdk/react-native"
import { ProductThumbnailViewData,EventTypes } from '@personalization-js-sdk/common';

const ProductThumbnailViewDataInitial : ProductThumbnailViewData = {
  products: ["product-1" ,Product-2];
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);

  useEffect(() => {
    PersonalizationInstance.report (
      EventTypes.ContextProductThumbnailView, {...ProductThumbnailViewDataInitial}
    ),
  },[]);

  return <View>
    <Text>MonetateSDK Product Thumbnail View Event.</Text>
  </View>
}
export default App;

```

## Product Detail View Event

Reports when a customer views a product detail page.

```

interface Product {
  productId: string;
  sku: string;
}

interface ProductDetailViewData {
  products: Product[];
}

```

### Example

```

import React, {useEffect} from 'react';
import { View , Text} from "react-native" ;
import Personalization from "@personalization-js-sdk/react-native"
import { ProductDetailViewData, EventTypes } from '@personalization-js-sdk/common';

const ProductDetailViewDataInitial : ProductDetailViewData = {
  products: [{
    productId: "",
    sku: ""
  }]
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);

  useEffect(() => {
    PersonalizationInstance.report (
      EventTypes.ContextProductDetailView, {...ProductDetailViewDataInitial}
    ),
  },[]);

  return <View>
    <Text> MonetateSDK Page View Event.</Text>
  </View>
}
export default App;

```

## Recommendation Clicks Event

Reports recommendations click events.

```

interface RecClicksData {
  recClicks: Array<string>;
}

```

### Example

```

import React, {useState} from 'react';
import { View , Text} from "react-native";
import Personalization from "@personalization-js-sdk/react-native";
import { RecClicksData, EventTypes } from '@personalization-js-sdk/common';
|
const RecClicksInitialData : RecClicksData = {
  recClicks: [],
};

const RecClickScreen = () => {
const PersonalizationInstance = new Personalization(account, user);
const [recState, updateRecState] = useState(RecClicksInitialData);

const handleRecClicks = (recClick: string) => {
  updateRecState(prevState => {
    return {
      ...prevState,
      recClicks: [...prevState.recClicks, recClick]
    }
  });
};

const reportRecClicks = () => {
  PersonalizationInstance.report(
    EventTypes.RecordRecClicks, {recClicks : recState.recClicks}
  ),
}

return <View>
  <View>
    <TouchableNativeFeedback onPress={() => handleRecClicks("sjscjcffuedscldm")}>
      // Show List of Products.
      <Image src={// Enter image source }/>
      <Text> {/ Show title}</Text>
    </TouchableNativeFeedback>
  </View>
  <Button title = "report Clicks" onPress ={()=>reportRecClicks()} />
</View>
}

export default RecClicksScreen;

```

## Recommendation Impressions Event

Reports recommendations impression events.

```
interface RecClicksData {  
  recImpressions: Array<string>;  
}
```

## Example

```

import React, {useState} from 'react';
import { View, Text, Image, TouchableNativeFeedback, Button } from 'react-native';
import Personalization from "@personalization-js-sdk/react-native";
import { RecClicksData, EventTypes } from '@personalization-js-sdk/common';

const RecImpressionsDataInitial : RecImpressionsData = {
  recImpressions: [],
};

const RecImpressionsScreen = () => {
  const PersonalizationInstance = new Personalization(account, user);
  const [recState, updateRecState] = useState(RecImpressionsDataInitial);

  const handleRecreImpressions = (recImpressions: string) => {
    updateRecState(prevState => {
      return {
        ...prevState,
        recImpressions: [...recState.recImpressions, recImpressions]
      }
    });
  };

  const reportRecImpressions = () => {
    PersonalizationInstance.report(
      EventTypes.RecordRecImpressions, {recImpressions : recState.recImpressions}
    ),
  }

  return <View>
    <View>
      <TouchableNativeFeedback onPress={() =>
handleRecImpressions("sjscjcfffkdfnkduedscldm")}>
        // Show List of Products.
        <Image src={// Enter image source }>
        <Text> {// SHow title}</Text>
      </TouchableNativeFeedback>
    </View>
    <Button title = "report Impressions" onPress =={()=>reportRecImpressions()} />
  </View>
}

export default RecImpressionsScreen;

```

# Impressions Event

Reports impression events.

```
interface ImpressionsData {  
  impressionIds: Array<string>;  
}
```

## Example

```
import React, {useEffect} from 'react';  
import { View , Text} from "react-native" ;  
import Personalization from "@personalization-js-sdk/react-native"  
import { ImpressionsData, EventTypes } from '@personalization-js-sdk/common';  
  
const ImpressionsDataInitial : ImpressionsData = {  
  impressionIds:["1","2","3"] // Array of strings Impression IDs is required  
};  
  
const App = () => {  
  const PersonalizationInstance = new Personalization(account, user);  
    
  useEffect(() => {  
    PersonalizationInstance.report (  
      EventTypes.RecordImpressions, {impressionIds: ImpressionsDataInitial}  
    ),  
  }, []);  
    
  return <View>  
    <Text> MonetateSDK Impression Event.</Text>  
  </View>  
}  
export default App;
```

## Add to Cart Event

Reports when a customer adds a product to their cart. Import and use the `CartLinesData` interface for this event. `CartLine` is the data structure used by this interface.

```
interface CartLine {  
  sku: string;  
  pid: string;  
  quantity: number;  
  currency: string;  
  value: string;  
}  
  
interface CartLinesData {  
  cartLines: Array<CartLine>;  
}
```

## Example

```

import React, { useState, useEffect } from 'react';
import Personalization from "@personalization-js-sdk/react-native"
import { CartData, EventTypes } from '@personalization-js-sdk/common';
import { View , Text} from "react-native" ;

const CartLinesInitialData: CartData = {
  cartLines: []
};

const App = () => {
  const [CartState, updateCartState] = useState(CartLinesInitialData);
  const PersonalizationInstance = new Personalization(account, user);

  useEffect = () => {
    AddToCartItemDetails: {
      sku: "T-shirt",
      pid: "1",
      quantity: 1,
      currency: "usd",
      value: "30"
    }
    updateCartState(prevState => {
      return {
        ...prevState,
        cartLines: [...updateCartState.cartLines, AddToCartItemDetails]
      }
    });
  }

  const reportAddToCart = () => {
    PersonalizationInstance.report(
      EventTypes.ContextCart, { cartLines: [...this.state.CartState] }
    ),
  }

  return <View>
    <View>
      // Product Details
    </View>
    <Button title = "Add to cart " onPress = {()=>reportAddToCart()} />
  </View>
}

export default App;

```



# Purchase Event

Reports when a customer purchases products. Import and use the `PurchaseData` interface for this event. `PurchaseLine` is the data structure used by this interface.

```
interface PurchaseLine {
  sku: string;
  pid: string;
  quantity: number;
  currency: string;
  value: string;
}

interface PurchaseData {
  account?: string;
  domain?: string;
  instance?: string;
  purchaseId: string;
  purchaseLines: PurchaseLine[];
}
```

## Example

```

import {useEffect} from 'react';
import { View , Text} from "react-native" ;
import Personalization from "@personalization-js-sdk/react-native"
import { PurchaseData, EventTypes } from '@personalization-js-sdk/common';

const PurchaseDataInitial : PurchaseData = {
  account: "monetate",
  domain: "localhost",
  instance: "p",
  purchaseId: "abc1c",
  purchaseLines: [{
    sku: "t-shirt",
    pid: "0302",
    quantity: "1",
    currency: "USD",
    value: "23",
  }]
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);

  useEffect(() => {
    PersonalizationInstance.report (
      EventTypes.ContextPurchase, {...PurchaseDataInitial}
    ),
  }, []);

  return <View>
    <Text> Monetate SDK Purchase Event.</Text>
  </View>
}

export default App;

```

## Closed Session Event

Imports `ClosedSessionData` from `@personalization-js-sdk/common`.

```

interface ClosedSessionData {
  closedSession?: object;
}

```

## Example

```
import {useEffect} from 'react';
import { View , Text} from "react-native" ;
import Personalization from "@personalization-js-sdk/react-native"
import { closedSession, EventTypes } from '@personalization-js-sdk/common';

const ClosedSessionDataInitial : ClosedSessionData = {
  // You can add any key value pair within Closed Sessions as per your needs
  closedSession: { account_id: 123,
  has_cart: "t",
  has_purchase: "f", ...}
};

const App = () => {
  const PersonalizationInstance = new Personalization(account, user);
  useEffect (() => {
    PersonalizationInstance.report (
      EventTypes.ContextClosedSession, {...ClosedSessionDataInitial}
    ),
  }, []);
  return <View>
    <Text>Monetate SDK Purcahse Event.</Text>
  </View>
}

export default App;
```

## Decision Event

This event does not need to be created. The SDK automatically creates a decision event when you use the `getActions` method and pass a `requestID` as a string.