Merchant Window Integration

This document provides an overview of how to integrate the **Merchant Window** as a separate browser window or tab. It outlines the necessary steps to ensure smooth communication between the **Merchant Window** and your main application, including how to handle transaction completion and window closure securely.

To facilitate the integration, the **redirectUrl** page must execute a small script that enables communication with the main application. Additionally, the main application must store a reference to the **Merchant Window** and listen for messages requesting its closure.

Integration Flow

To correctly implement the updated integration, follow these steps:

1. **Initiate Payment:** Your platform calls the **[Create Payment](#)** endpoint to obtain the **transactionUrl.**

2. **Open the Merchant Window:** The **transactionUrl** is opened in a new window and its reference is stored in your platform by calling:

```javascript
// Platform

const windowRef = window.open(transactionUrl);
```

3. **Set Up Event Listener:** A **message** event listener is initialized to handle messages from the **Merchant Window:**

```javascript
// Platform

window.addEventListener('message', messageHandler);
```

4. **Transaction Processing:** The user completes the transaction in the **Merchant Window.**

5. **Communication on Completion:** Once the transaction is finished, the **redirectUrl** page loads and sends a **postMessage** to the main platform, requesting the **Merchant Window** to close while sending along any other relevant data (e.g. transaction status):

```javascript
// Window

window.opener.postMessage({
    action: 'close-merchant-window',
    ...additionalData
});
```

6. **Handle Message & Close Window:** The main application listens for the **message**, verifies the action, closes the **Merchant Window** and processes any additional data if needed:

```javascript
// Platform

function messageHandler(e) {
    if (e.data.action === 'close-merchant-window') {
        windowRef.close();
        // handleAdditionalData(e.data);
    }
}
```

Additional Notes

- Ensure **windowRef** is correctly referenced when closing the Merchant Window.
- Implement necessary error handling in case of message failures.
- Test the implementation thoroughly to ensure smooth redirection and closure of the **Merchant Window.**

This approach ensures a **secure and streamlined** user experience while aligning with the updated integration requirements.