

# Web Payment IDL

This document: <https://goo.gl/656sby>

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Last updated: Oct 29, 2015

**Status: Out of date**

Here is what I ([Rouslan](#)) think about the starting point for APIs for handling the legacy payment case: raw credit card numbers. Please let me know if that's we're talking about or I am way off base. Some examples are included in this doc. This is not set in stone at all.

## Payment Instrument: Registering an Instrument

**Option 1:** Payment instrument website calls JavaScript API.

API

```
partial interface Window {
  void registerInstrument(
    DOMString name,
    DOMString shortName,
    sequence<DOMString> supportedPaymentSchemes,
    sequence<Dictionary> icons,
    DOMString paymentRequestURL);
};
```

Example

```
window.registerInstrument(
  "Pay with BobPay.com",
  "BobPay",
  ["visa"],
  [{
    "src": "icon/lowres",
    "sizes": "64x64",
    "type": "image/webp"
  }],
  "https://bobpay.com/payment_request_ui");
```

**Option 2:** User agent reads [manifest.json](#) file on payment instrument website.

```
{
  "name": "Pay with BobPay.com",
```

```

"short_name": "BobPay",
"supported_payment_schemes": ["visa"],
"payment_request_url": "https://bobpay.com/payment_request_ui",
"icons": [{
  "src": "icon/lowres",
  "sizes": "64x64",
  "type": "image/webp"
}, {
  "src": "icon/hd_small",
  "sizes": "64x64"
}, {
  "src": "icon/hd_hi",
  "sizes": "128x128",
  "density": 2
}]
}

```

## Merchant: Requesting a Payment

### API

```

partial interface Window {
  Promise<InstrumentResponse> paymentRequest(
    sequence<DOMString> supportedSchemes,
    Dictionary purchaseDetails,
    optional Dictionary schemeData);
};

interface InstrumentResponse {
  readonly attribute DOMString instrumentName;
  readonly attribute Dictionary instrumentDetails;
};

```

### Example

[Merchant website example.](#)

## Payment Instrument: Providing Payment

Payment instrument at [https://bobpay.com/payment\\_request\\_handler](https://bobpay.com/payment_request_handler) website calls [postMessage](#) with an `InstrumentResponse` or an exception object.

## Example

Payment instrument's logic is in some function called `process()`.

```
window.addEventListener(  
  'message',  
  function(event) {  
    event.source.postMessage(process(event.data));  
  },  
  false);
```