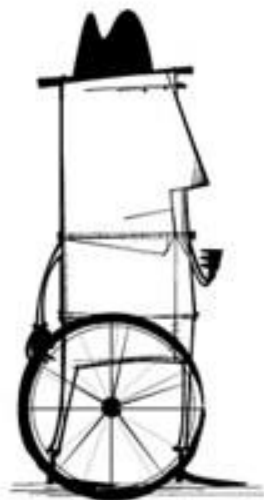


ERRR...



**CAN'T STOP.
TOO BUSY!!**



APEX Basic (?) Tips 2

Daniel Huha

BI
LOG

Contents

About me

About BiLog

The Tips

Summary



Worked as a school teacher until 2011.

In 2011. started working as an Oracle developer in BiLog d.o.o., with focus on Application Express

Software consultant, developer, mentor and trainer



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apexdontpanic.blogspot.com

We ♥ APEX

Consulting and business solution development

Forms > APEX migrations, APEX educations and training,
plugin development

Our APEX solutions: HR software, Insurance Regulatory
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information systems

www.bilog.hr

Lets see how you can:

1. Make a single login for multiple apps
2. Handle Dialog Cancel and Close events
3. Set Popup LOV display value and use returning values
4. Use translation messages
5. Customize Alert and Confirm dialogs

Single login for multiple apps

Why even do that?



APP100: HR



APP200: SALES



APP300: ACCOUNTING



APP400: OTHER STUFF

App modules as separate standalone applications



INTERNAL USERS



APP100: CORPORATE IIS



APP200: B2B PORTAL



PUBLIC USERS

Standalone apps with mixed access

Seen any examples?



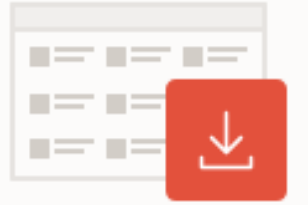
App Builder



SQL Workshop



Team Development



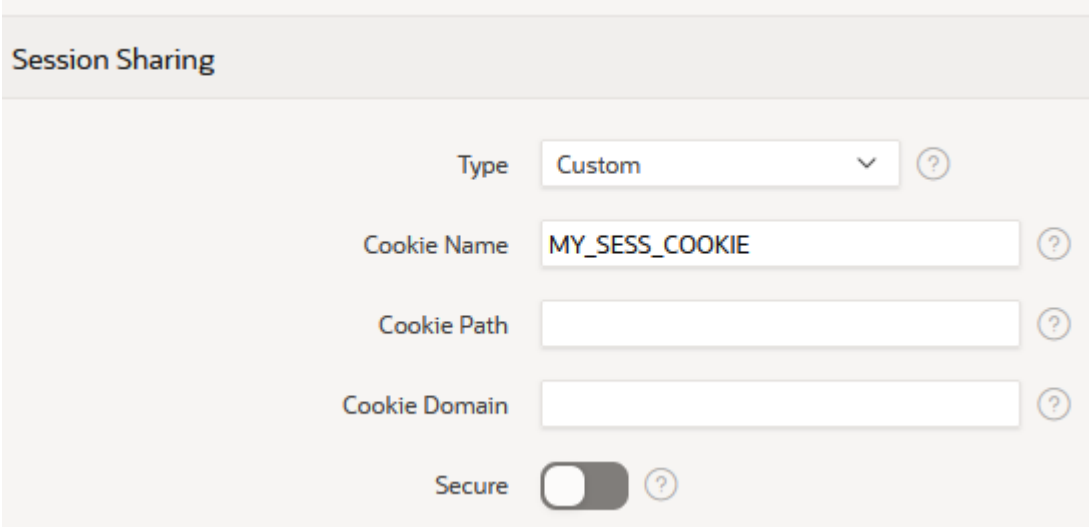
Gallery

The APEX Builder

How to?

All applications must use same Session Cookie:

Shared Components > Authentication Schemes > [Your Scheme Here] >
Session Sharing > Cookie name



The image shows a configuration form titled "Session Sharing". It contains the following fields and controls:

- Type:** A dropdown menu with "Custom" selected and a help icon (?) to its right.
- Cookie Name:** A text input field containing "MY_SESS_COOKIE" and a help icon (?) to its right.
- Cookie Path:** An empty text input field and a help icon (?) to its right.
- Cookie Domain:** An empty text input field and a help icon (?) to its right.
- Secure:** A toggle switch currently in the "off" position and a help icon (?) to its right.

PROS

Simpler navigation for end-users

Less interference between developers, when each is assigned to a different module or app

CONS

More security considerations (specially when having public apps)

More overhead with shared components (static files, lists, subscriptions etc.)

See: Demo Apps „Opportunities” and „Customers”

Dialog Cancel and Close events

There's a difference?



Product Details

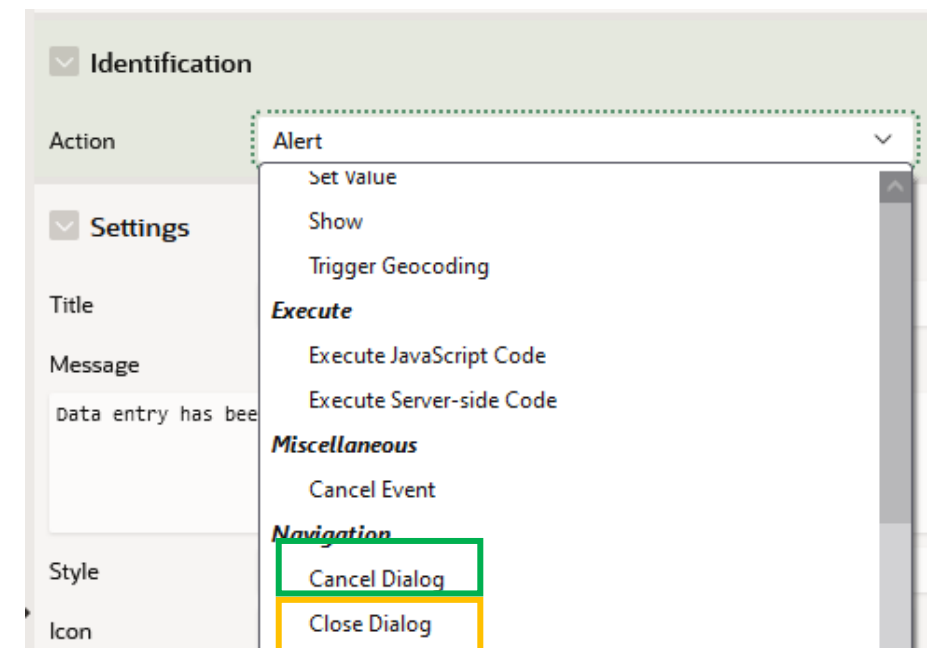
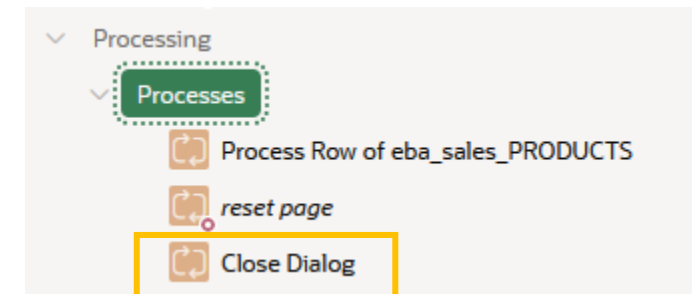
Name Sold As - Select - ?

Family - Select - SKU

Description

Tags

Cancel Create Product

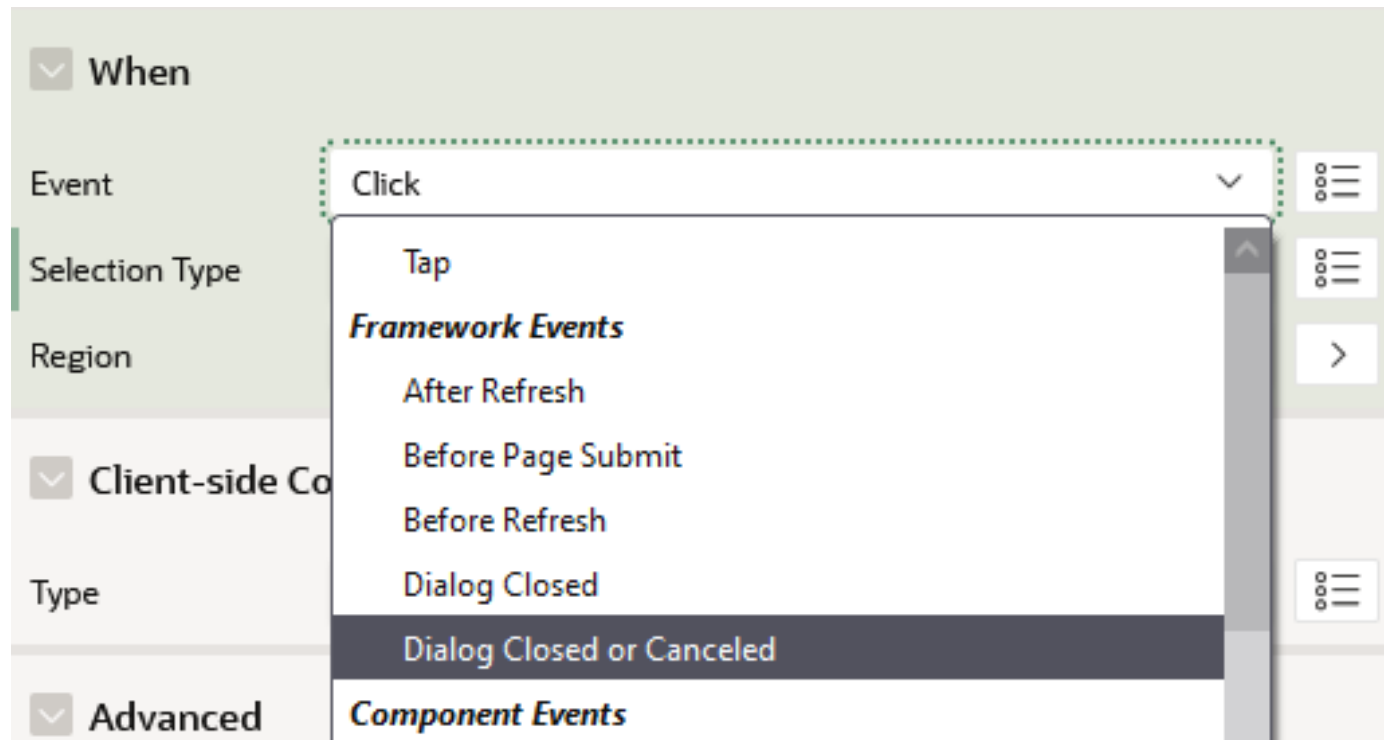


CANCEL DIALOG

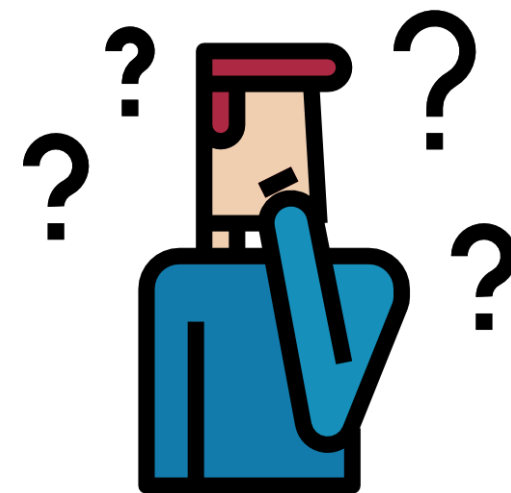
SUBMIT AND CLOSE DIALOG

After Close Dialog:
usually a **region refresh**
or **set item value**

After Cancel Dialog:
maybe **same** as Close Dialog
or some **feedback** to the user



Dialog Canceled ?



Modal Page Close event in more detail

<https://github.com/thehuha/apex-basic-tips>

See: Demo App „Opportunities”, page 4

Setting the Popup LOV value

APEX 21.2 - easy peasy

APEX 19.2 ... 21.1 – not so much

Popup LOV item has been redesigned in APEX 19.2:

- > jQuery Dialog
- > inline and modal display type
- > display multiple columns
- > return values to items (other than the default return value)

Setting the Popup LOV value

APEX 21.2 – e.g. in the Opportunities App

APEX 21.1 – e.g. in the Opportunities App (same behavior in earlier versions than 21.2)

< APEX 21.2

```
apex.item( pNd ).setValue(pValue, pDisplayValue, pSuppressChangeEvent)
```

See the `$s(pNd, pValue, pDisplayValue, pSuppressChangeEvent)` function for a shortcut to `.setValue()`.

https://docs.oracle.com/database/121/AEAPI/javascript_api.htm#AEAPI29491

See: Demo App „Opportunities”, page 106

Popup LOV with multiple columns

But how?

ORA-20999: Wrong number of columns selected in the SQL query. See Help of attribute for details.

```
1  select customer_name display_value,  
2     |      id return_value,  
3     |      tags,  
4     |      customer_web_site  
5  from eba_sales_customers  
6  order by 1
```

Popup LOV with multiple columns

Solution: Shared LOV

<https://www.foxinfotech.in/2019/11/creating-multi-column-popup-lov-in-oracle-apex-19-2.html>

Returning Values to Items

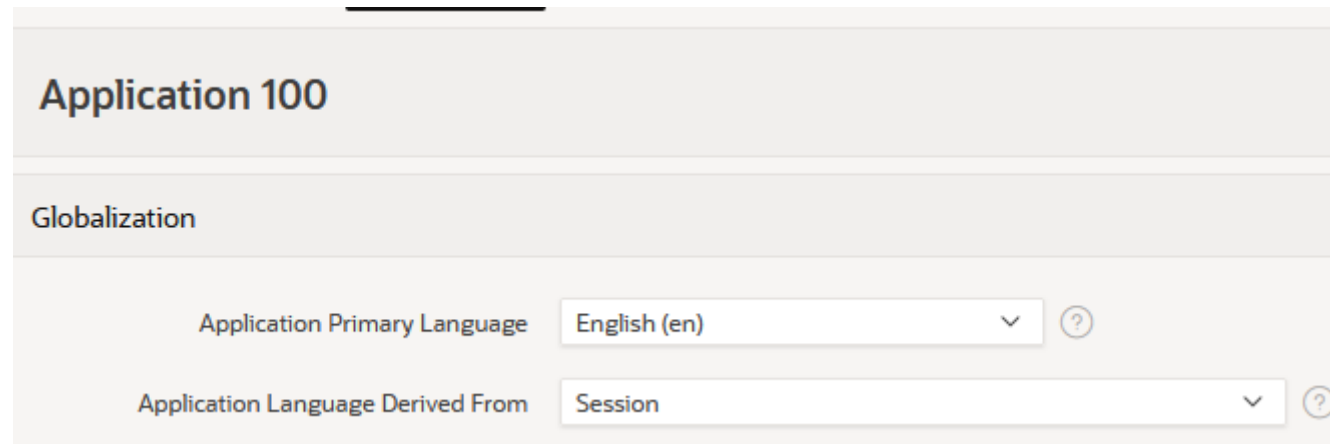
<https://community.oracle.com/tech/developers/discussion/4312439/how-to-return-multiple-columns-in-multiple-column-lov>

Using translation messages

A different message can be defined for each supported application language.

App primary language is set here:

Shared component > Application Definition Attributes > Globalization



The screenshot shows a web interface for configuring an application. At the top, there's a header 'Application 100'. Below it, a section titled 'Globalization' contains two settings. The first setting is 'Application Primary Language', which is set to 'English (en)' in a dropdown menu, with a help icon (?) to its right. The second setting is 'Application Language Derived From', which is set to 'Session' in a dropdown menu, also with a help icon (?) to its right.

Translated text messages are defined here:

Shared component > Globalization > Text Messages

Create/Edit Text Message

Messages are designed to provide translation services for use in PL/SQL.

Application **100 Opportunities** ?

* Name ?

Language ?

Used in JavaScript ☒ ?

* Text ?

Fetching translation messages

Message will be returned according to current application language.

PL/SQL:

```
apex_lang.message('Q_ARE_YOUR_SURE')  
v('APP_TEXT$Q_ARE_YOU_SURE')  
v('APP_TEXT$Q_ARE_YOU_SURE$DE')
```

JavaScript:

```
apex.lang.getMessage('Q_ARE_YOUR_SURE')
```

```
[APEX 18.1 >]
```

HTML and attribute substitutions:

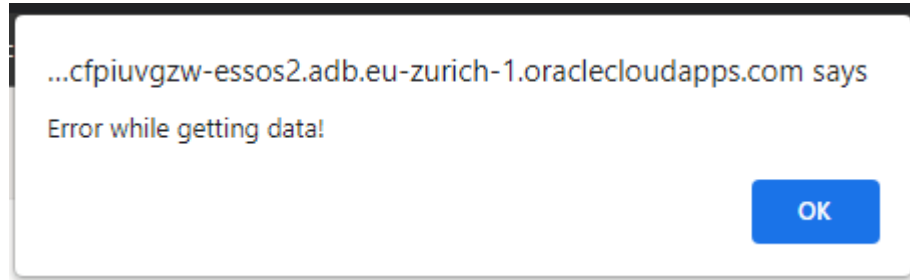
```
&APP_TEXT$Q_ARE_YOU_SURE.
```

See: Demo App „Opportunities”, page 72

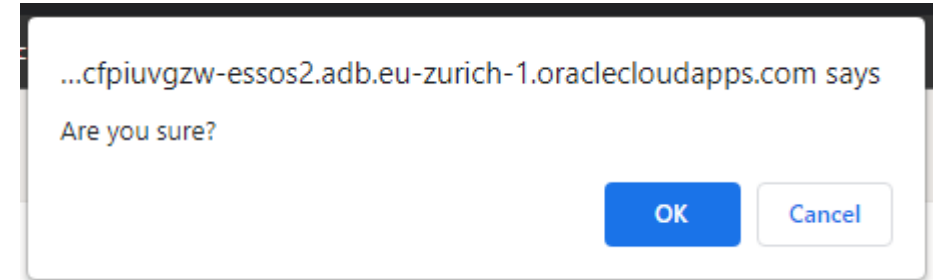
Customize Alert and Confirm dialogs

The old days

```
alert('Error while getting data!');
```

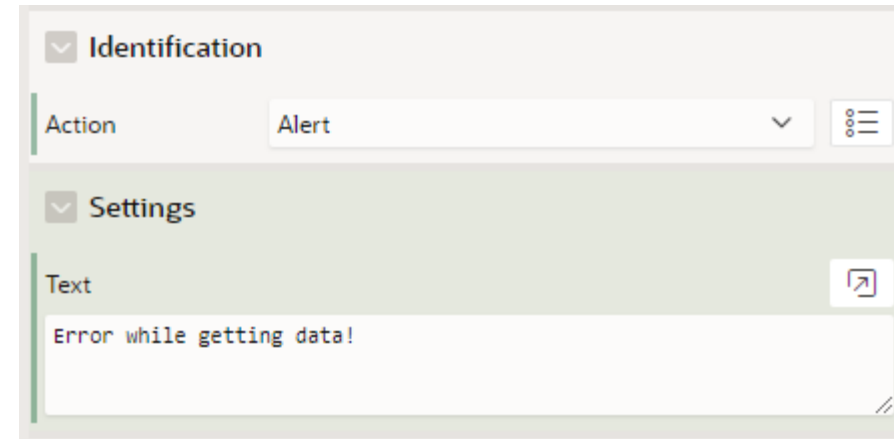
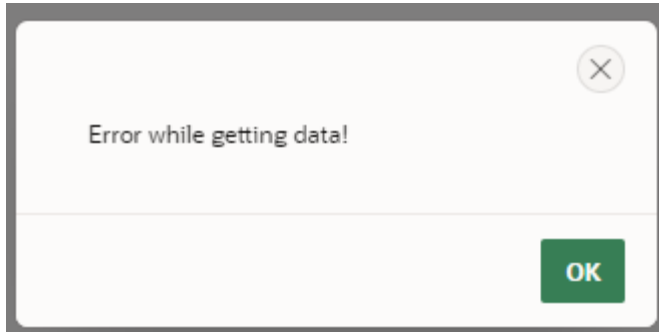


```
confirm('Are you sure?');
```

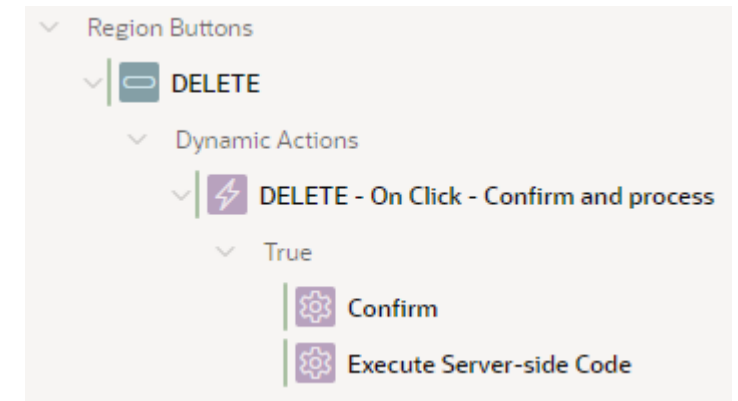
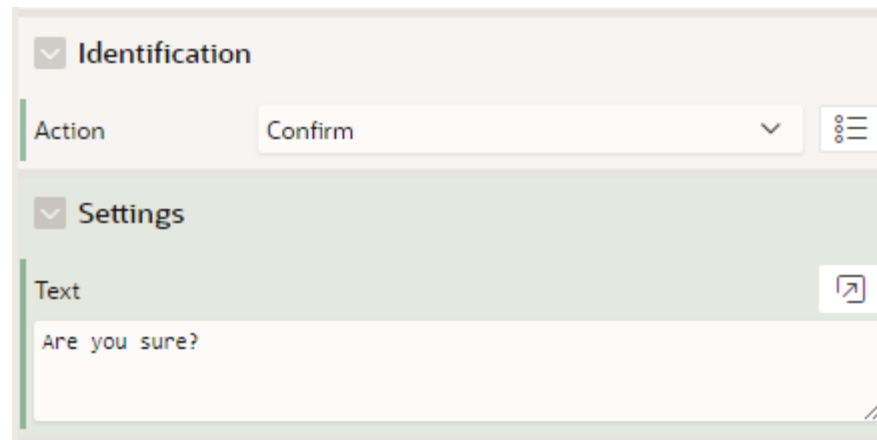
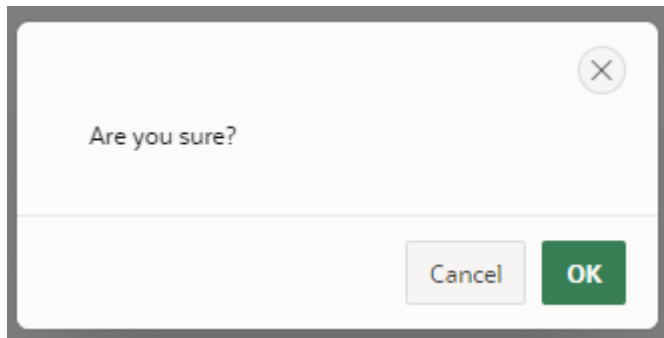


APEX 5.1 >

```
apex.message.alert('Error while getting data!');
```

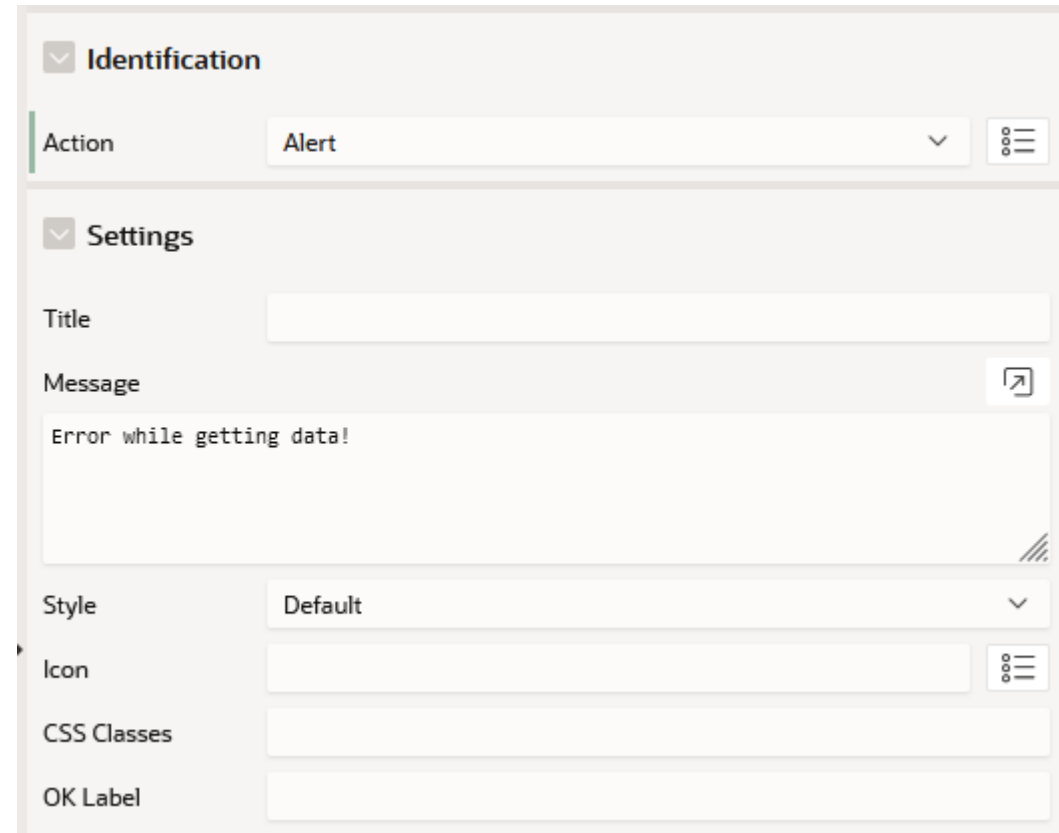
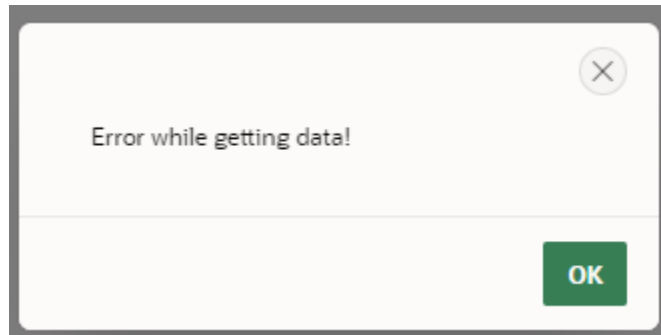


```
apex.message.confirm('Are you sure?', function () { /*do sthg...*/ });
```



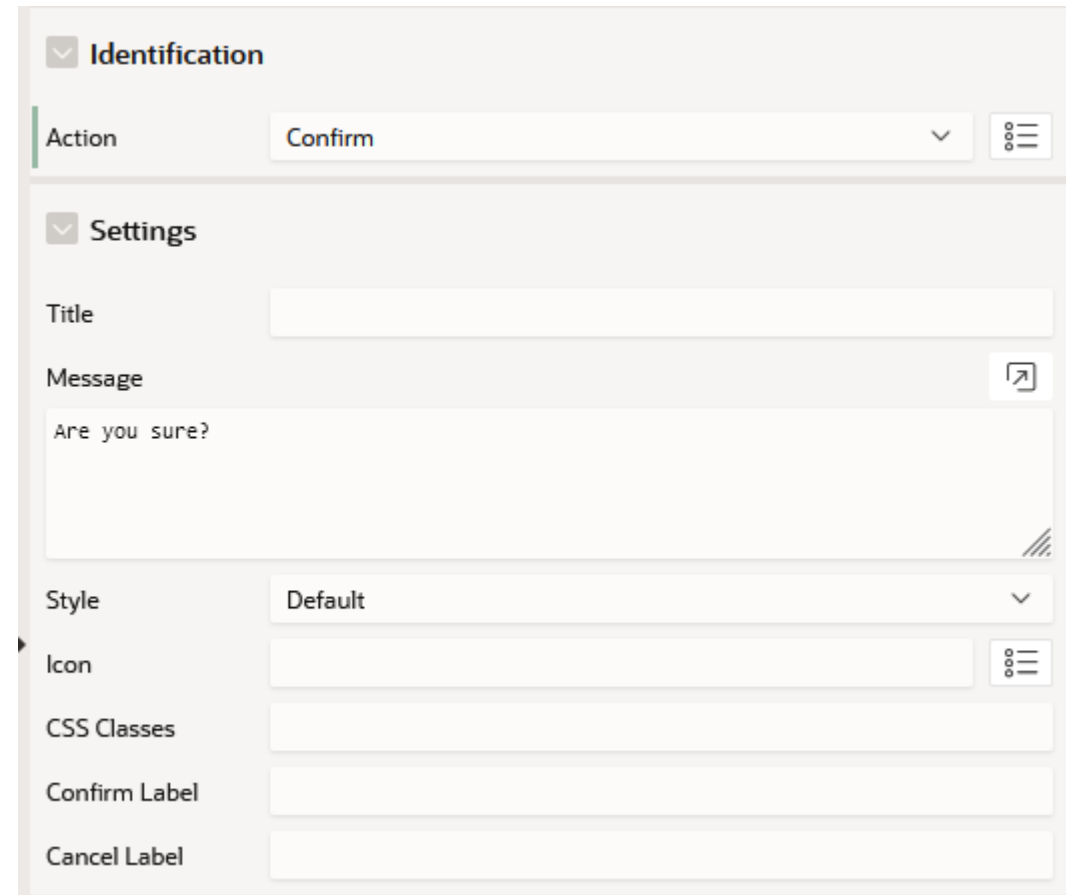
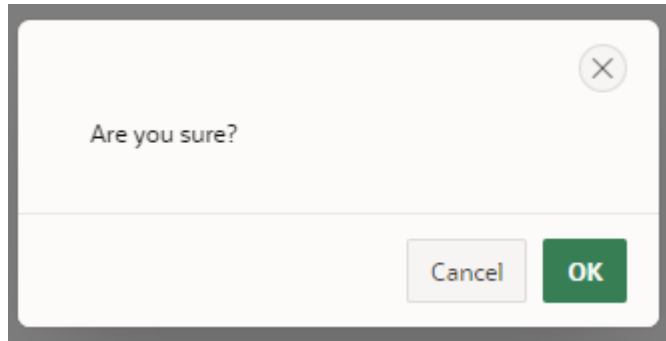
APEX 21.2 >

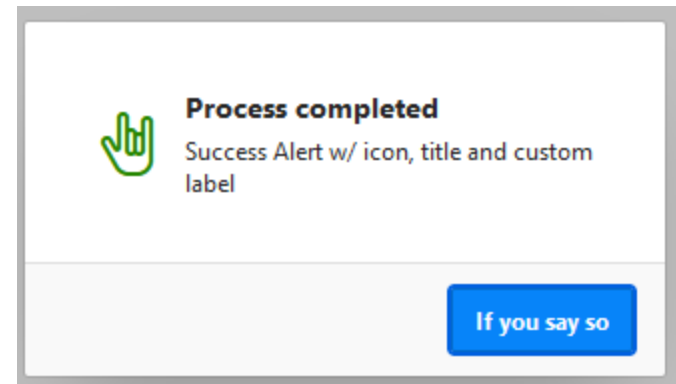
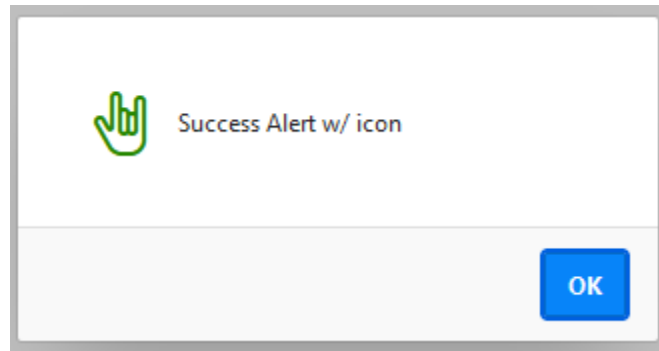
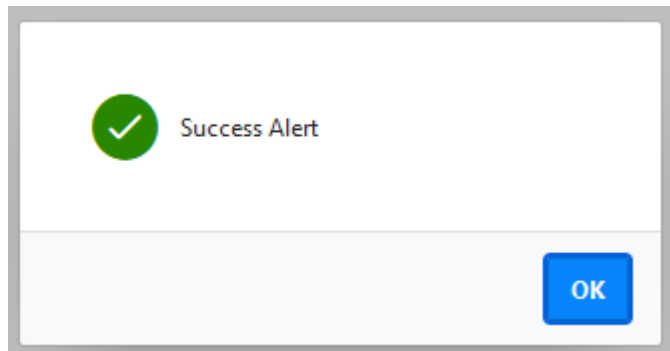
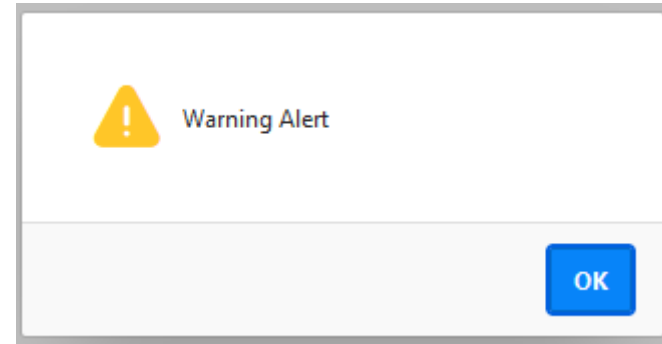
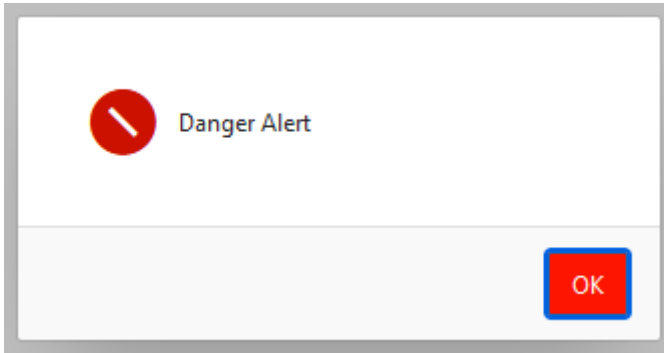
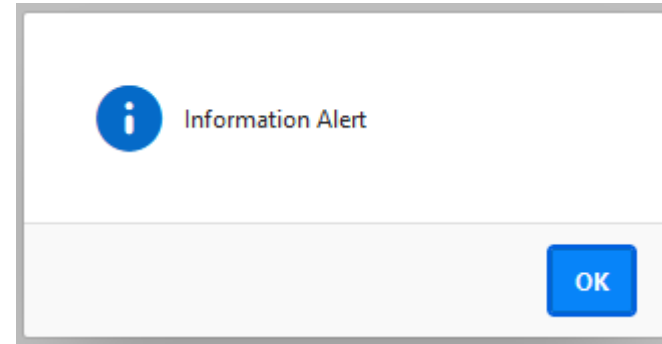
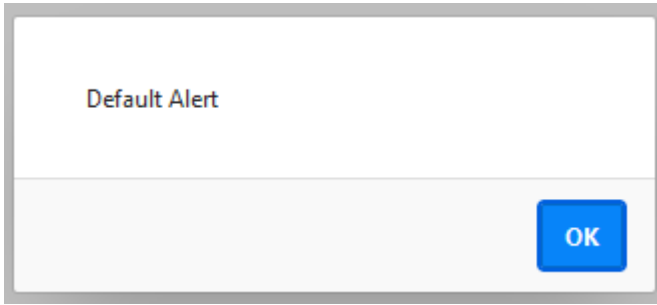
```
apex.message.alert('Error while getting data!');
```

A screenshot of the Apex alert configuration interface. The interface is divided into two main sections: "Identification" and "Settings".
Under "Identification", there is a dropdown menu for "Action" set to "Alert".
Under "Settings", there are several fields:
- "Title": An empty text input field.
- "Message": A text area containing the text "Error while getting data!".
- "Style": A dropdown menu set to "Default".
- "Icon": An empty text input field.
- "CSS Classes": An empty text input field.
- "OK Label": An empty text input field.

APEX 21.2 >

```
apex.message.confirm('Are you sure?', function () { /*do sthg...*/ });
```

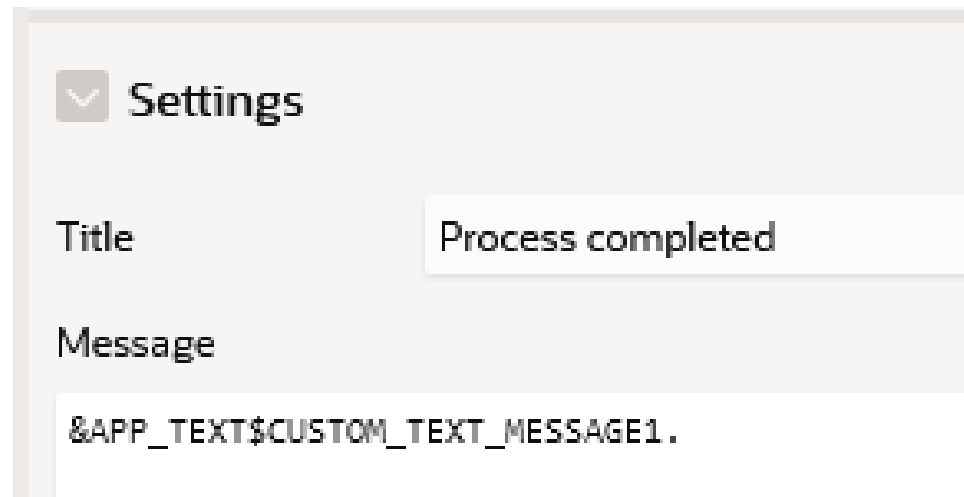
A screenshot of the Apex confirm dialog configuration interface. The interface is divided into sections: "Identification", "Settings", "Style", "Icon", "CSS Classes", "Confirm Label", and "Cancel Label". The "Identification" section shows the "Action" set to "Confirm". The "Settings" section shows the "Title" and "Message" fields. The "Message" field contains the text "Are you sure?". The "Style" section shows the "Style" set to "Default". The "Icon", "CSS Classes", "Confirm Label", and "Cancel Label" sections are currently empty.



Static settings?

Each setting supports substitutions

Application text messages included:



See: Demo App „Opportunities”, page 4

Summary

- Make a single login for multiple apps
- Handle Dialog Cancel and Close events
- Set Popup LOV display value and use returning values
- Use translation messages
- Customize Alert and Confirm dialogs

Summary

- Take time to experiment
- Create your own APEX toolbox (hintbox?)
- Share the knowledge with your colleagues and community

Github

<https://github.com/thehuha/apex-basic-tips-2>

Questions

daniel.huha@bilog.hr

Thank you!

