

ALLIANCE

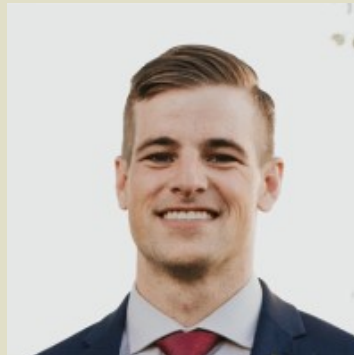
Philadelphia

Developing Fluid Scroll Areas

Session 6807

May ##, 2020

PRESENTERS



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Your Organization

Campus Solutions 9.2

PeopleTools 8.55.16

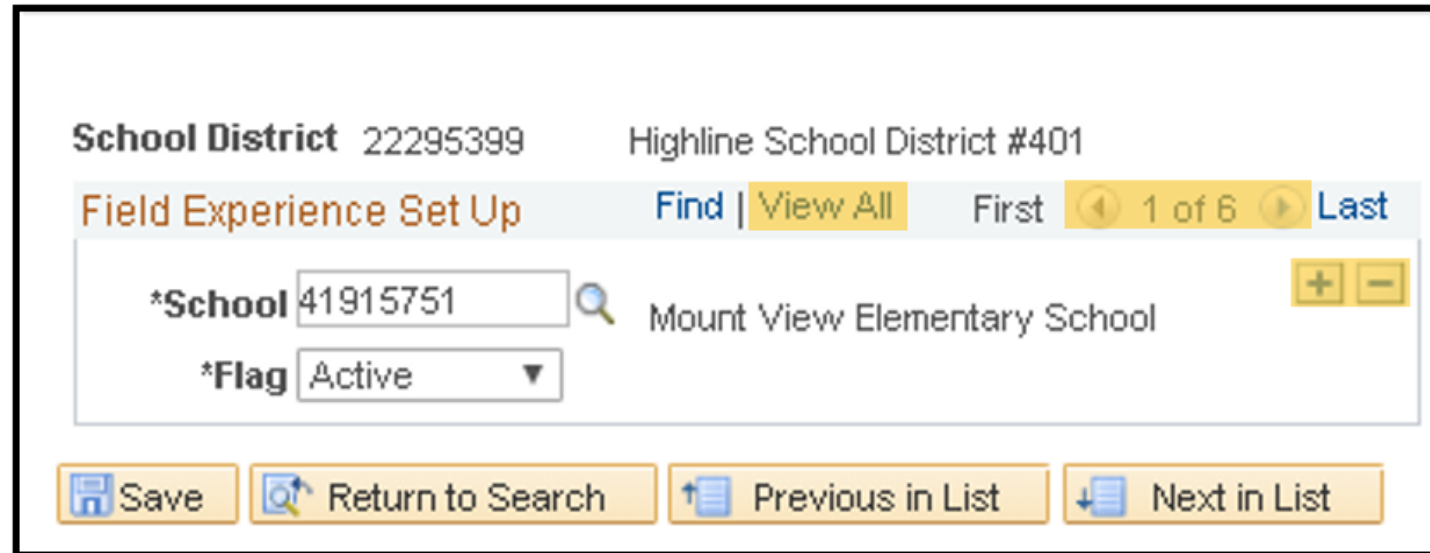
Oracle Database 12C

Developing Fluid Scroll Areas

Overview

1. Classic scroll area example
2. Conversion to Fluid
3. Implementing Fluid scroll area controls
4. Styling Fluid scroll area controls
5. Additional examples

Classic Scroll Area



The screenshot displays a web interface for a 'Classic Scroll Area'. At the top, it shows 'School District 22295399' and 'Highline School District #401'. Below this is a navigation bar with 'Field Experience Set Up', 'Find | View All', 'First', '1 of 6', and 'Last'. A search box contains '*School 41915751' and a magnifying glass icon, with the result 'Mount View Elementary School' displayed. Below the search box is a dropdown menu for '*Flag' set to 'Active'. At the bottom, there are four buttons: 'Save', 'Return to Search', 'Previous in List', and 'Next in List'.

Previous: Controls how a user can move to a previous row in the scroll area.

Row Counter: Tracks the number of rows in the scroll area and in which row the cursor focuses. Text is the default setting, and, for example, 1-6 of 6 appears in the navigation bar if the scroll area has six rows.

Next: Controls how a user can move to the next row in the scroll area.

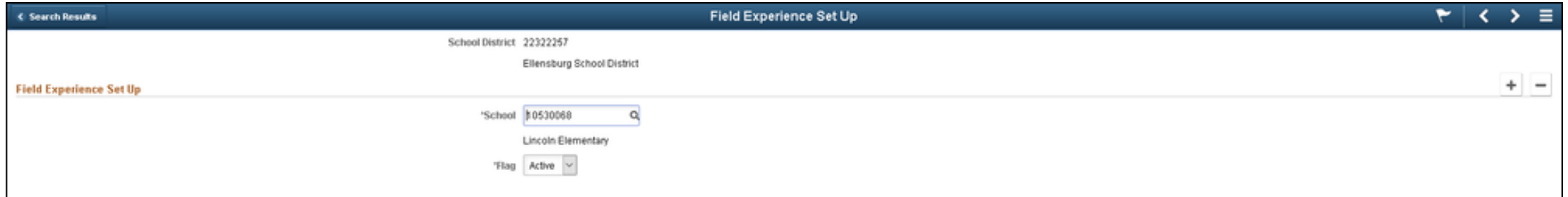
View All: Enables the user to view all rows of data at once.

Insert/Delete: Select to display Insert and Delete buttons on each scroll area row at runtime. The action buttons can appear on the left or right side of the scroll area. Click the properties button to open the Body Area Row Action Button Properties dialog box.

Classic to Fluid Conversion

1. Create the fluid component
2. Create the fluid page and add it to the fluid component
3. Update all PeopleCode references
4. Update or delete unsupported controls
5. Enable search page
6. Adjust and finalize layout
7. Implement responsive and adaptive behaviors

Page After Conversion



The screenshot shows a web application interface with a dark blue header bar. On the left of the header is a tab labeled 'Search Results'. On the right is a title 'Field Experience Set Up' followed by navigation icons (back, forward, and a menu icon). Below the header, the main content area is white. It displays 'School District 22322257' and 'Ellensburg School District'. A section titled 'Field Experience Set Up' in orange text is followed by a search bar containing '0530068' and a magnifying glass icon. Below the search bar, it shows 'Lincoln Elementary' and a dropdown menu for 'Flag' set to 'Active'. On the right side of the main content area, there are two buttons: a plus sign (+) and a minus sign (-).

As you can see, the scroll area doesn't appear how you would expect. The row actions buttons will need to be implemented by a developer.

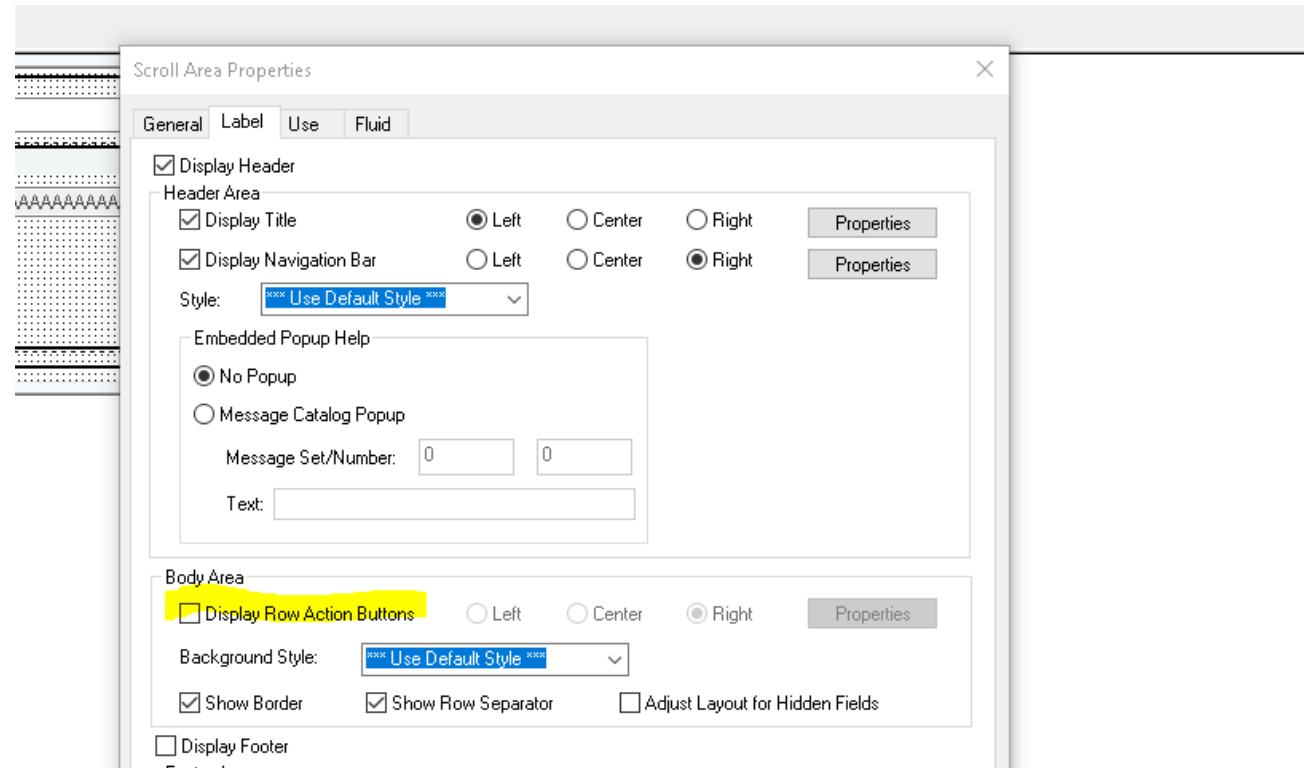
Row Insert

Three methods:

1. Leave as-is
2. Use Scroll Action
3. Use Peoplecode

Row Insert Contd.




- If either of the second two methods are used, the default row insert and row delete buttons will need to be removed
- Update the Scroll Area Properties



Row Insert Contd.

[< Search Results](#)

Field Experience Set Up




School District 22322257

Ellensburg School District

Field Experience Set Up

*School



Lincoln Elementary

*Flag

Row Insert Contd.

Add a push button/hyperlink control to the page

The screenshot shows a web application window titled "CW_FIELD_SETUP_FL (Page)". It has two tabs: "Layout" (selected) and "Order". The main content area is a dotted grid. At the top, there is a label "School District:" followed by a text box containing "NNNNNNNNNN" and an empty text box. Below this is a section titled "Field Experience Set Up" in orange text, with a status indicator "|<< %d of %d >>|". Inside this section, there is a "School:" label with a text box and a dropdown arrow, followed by a long text box containing "AA". Below the "School:" field is a "Flag:" label with a dropdown arrow. At the bottom of the section is a button labeled "Insert".

Row Insert Contd.

[< Search Results](#)

Field Experience Set Up

School District 41694036

Damman School District

Field Experience Set Up

Insert

*School 41961095

Damman Elementary

*Flag Active

Row Insert Contd.

Using Scroll Action

Push Button/Hyperlink Properties

Type Label Use General Fluid

Type

☒ Push Button ☐ Hyperlink ☐ Action Widget

Destination: Scroll Action

Record Name:

Field Name:

Style: Use Default Style

External Link

☐ Static ☐ Dynamic

URL ID:

☐ URL Encoded by Application

Internal Link

Portal: Use Current

Node: LOCAL_NODE

Menu:

Component:

Market:

Page:

Action:

☐ Use data from current page in search

Actions

Action Type: Row Insert

Related Control: 4 | Field Experience Set Up

Process

Type:

Name:

Secondary Page

Page:

Action Widget Settings

☐ Use Default JavaScript

Custom JavaScript:

Related Content Event

☐ Display in Related Action Menu

☐ Show in Page

Row Insert Contd.

Using PeopleCode

Push Button/Hyperlink Properties

Type: ☒ Push Button ☐ Hyperlink ☐ Action Widget

Destination: PeopleCode Command

Record Name: CW_FLD_EX_WRK

Field Name: PT_INSERT_PB

Style: Use Default Style

Actions

Action Type:

Related Control:

Process

Type:

Name:

Secondary Page

Page:

Action Widget Settings

External Link

☐ Static ☐ Dynamic

URL ID:

☐ URL Encoded by Application

Internal Link

Portal: Use Current

Node: LOCAL_NODE

Menu:

Component:

Market

Page:

Action:

☐ Use data from current page in :

Related Content Event

FieldChange Event

```
Local Rowset &rs = GetLevel0()(1).GetRowset(Scroll.CW_SCHOOL_STP);  
&rs.InsertRow(&rs.ActiveRowCount);
```

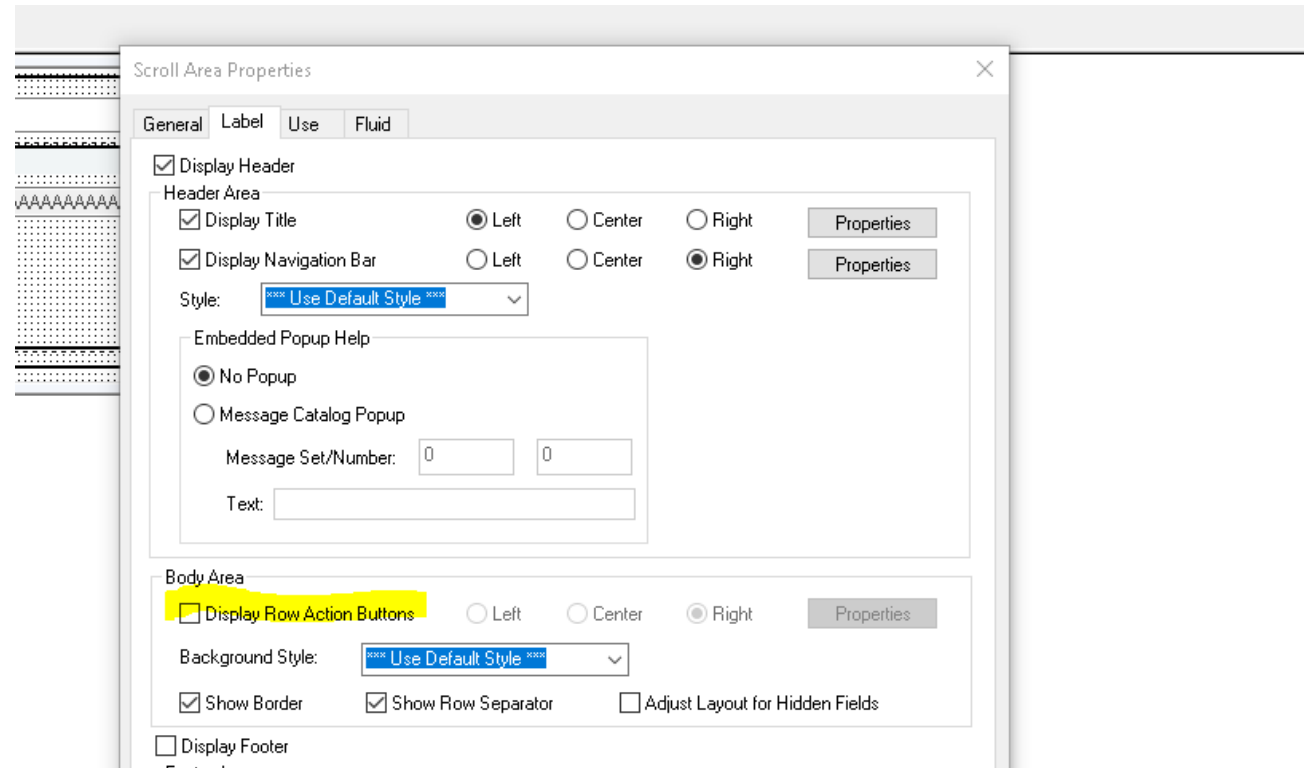
Row Delete

Three methods:

1. Leave as-is
2. Use Scroll Action
3. Use Peoplecode

Row Delete Contd.




- If either of the second two methods are used, the default row insert and row delete buttons will need to be removed
- Update the Scroll Area Properties



Row Delete Contd.

[< Search Results](#)

Field Experience Set Up


  

School District 22322257

Ellensburg School District

Field Experience Set Up

*School



Lincoln Elementary

*Flag

▼

Row Delete Contd.

Add a push button/hyperlink control to the page

CW_FIELD_SETUP_FL (Page)

Layout | Order

School District: NNNNNNNNNN []

Field Experience Set Up << %d of %d >>

School: [] [AA]

Flag: []

[Insert] [Delete]

Row Delete Contd.

[← Search Results](#)

Field Experience Set Up

🚩 < ≡

School District 41694036

Damman School District

Field Experience Set Up

Insert

*School

41961095

🔍

Damman Elementary

*Flag

Active

▼

Delete

Row Delete Contd.

Using Scroll Action

Push Button/Hyperlink Properties

Type: ☒ Push Button ☐ Hyperlink ☐ Action Widget

Destination: Scroll Action

Record Name:

Field Name:

Style: Use Default Style

Actions

Action Type: Row Delete

Related Control: 6 | Field Experience Set Up

Process

Type:

Name:

☐ Secondary Page

External Link

☐ Static ☐ Dynamic

URL ID:

☐ URL Encoded by Application

Internal Link

Portal: Use Current

Node: LOCAL_NODE

Menu:

Component:

Market:

Page:

Action:

Row Delete Contd.

Using PeopleCode

Push Button/Hyperlink Properties

Type Label Use General Fluid

Type

☒ Push Button ☐ Hyperlink ☐ Action Widget

Destination: PeopleCode Command

Record Name: CW_FLD_EX_WRK

Field Name: PTTST_DELETE_PB

Style: Use Default Style

Actions

Action Type:

Related Control:

Process

Type:

Name:

FieldChange Event

```
Local Rowset &rs = GetLevel0()(1).GetRowset(Scroll.CW_SCHOOL_STP);  
&rs.DeleteRow(CurrentRowNumber());
```

Previous

Add a new push button/hyperlink to the page

The screenshot shows a web application window titled "CW_FIELD_SETUP_FL (Page)". It has two tabs: "Layout" (selected) and "Order". The main content area is a dotted grid. At the top, there's a "School District" label followed by a text box containing "NNNNNNNNNN" and an empty text box. Below this is a section titled "Field Experience Set Up" in orange text. To the right of this title is a label "|<< %d of %d >>|" and a blue hyperlink "<<prev". Below the title, there's a "School:" label followed by a dropdown menu and a long text box filled with "A"s. Below that is a "Flag:" label followed by a dropdown menu. At the bottom of the section are two buttons: "Insert" and "Delete".

Previous Contd.

Set the push button/hyperlink properties

Push Button/Hyperlink Properties

Type Label Use General Fluid

Type

☐ Push Button ☒ Hyperlink ☐ Action Widget

Destination: Scroll Action

Record Name:

Field Name:

Style: Use Default Style

Actions

Action Type: Previous

Related Control: 6 | Field Experience Set Up

Process

Type:

Name:

Secondary Page

External Link

☐ Static ☐ Dynamic

URL ID:

☐ URL Encoded by Application

Internal Link

Portal: Use Current

Node: LOCAL_NODE

Menu:

Component:

Market:

Page:

Action:

☐ Use data from current page in search

Previous Contd.

[< Search Results](#)

Field Experience Set Up

>

≡

School District 22322257

Ellensburg School District

Field Experience Set Up

Insert

*School

10530172

Q

Mt. Stuart Elementary

Delete

<<prev

*Flag

Active

▼

Next

Add a new push button/hyperlink to the page

The screenshot shows a web application window titled "CW_FIELD_SETUP_FL (Page)". It has two tabs: "Layout" (selected) and "Order". The main content area is a dotted grid. At the top, there is a "School District" label followed by a text box containing "NNNNNNNNN" and an empty text box. Below this is a section titled "Field Experience Set Up" in orange text. To the right of this title is a label "<< %d of %d >>". Below the title is a blue hyperlink "<<prevnext>". Further down, there is a "School:" label followed by a dropdown menu and a long text box filled with "A"s. Below that is a "Flag:" label followed by a dropdown menu. At the bottom of the section are two buttons: "Insert" and "Delete".

Next Contd.

Set the push button/hyperlink properties

Push Button/Hyperlink Properties

Type Label Use General Fluid

Type

☐ Push Button ☒ Hyperlink ☐ Action Widget

Destination: Scroll Action

Record Name:

Field Name:

Style: Use Default Style

Actions

Action Type: Next

Related Control: 6 | Field Experience Set Up

Process

Type:

Name:

Secondary Page

External Link

☐ Static ☐ Dynamic

URL ID:

☐ URL Encoded by Application

Internal Link

Portal: Use Current

Node: LOCAL_NODE

Menu:

Component:

Market:

Page:

Action:

☐ Use data from current page in search


Next Contd.

School District 41694036

Damman School District

Field Experience Set Up

Insert

*School 

Damman Elementary

Delete

<<prev next>>

*Flag ▼

Row Counter

Add necessary page controls:

- Edit Box 1: CURRENT_ROW field, make display-only
- HTML Area: constant value "of"
- Edit Box 2: TOTAL_ROWS field, make display only

CW_FIELD_SETUP_FL (Page)

Layout | Order

School District: NNNNNNNNN

Field Experience Set Up |<< %d of %d >>|

<<prev NNI 22222 next>>

School: [dropdown]

Flag: [dropdown]




AA

Insert Delete

Row Counter Contd.

[< Search Results](#)

Field Experience Set Up



School District 22322257

Ellensburg School District


Field Experience Set Up

of

Insert

Delete

<<prevnext>>

*School 10530068 

*Flag Active ▼

Lincoln Elementary

Row Counter

Add Row Init PeopleCode:

CURRENT_ROW example code:

```
CW_FLD_EX_WRK.CURRENT_ROW.Value = CurrentRowNumber();
```

TOTAL_ROWS example code:


```
Local Rowset &rs = GetLevel0()(1).GetRowset(Scroll.CW_SCHOOL_STP);
```

```
CW_FLD_EX_WRK.TOTAL_ROWS.Value = &rs.ActiveRowCount;
```


Row Counter Contd.

[< Search Results](#)

Field Experience Set Up



[>](#)




School District 22322257

Ellensburg School District

Field Experience Set Up

Insert

*School 

Lincoln Elementary

1 of 10

Delete

<<prevnext>>

*Flag

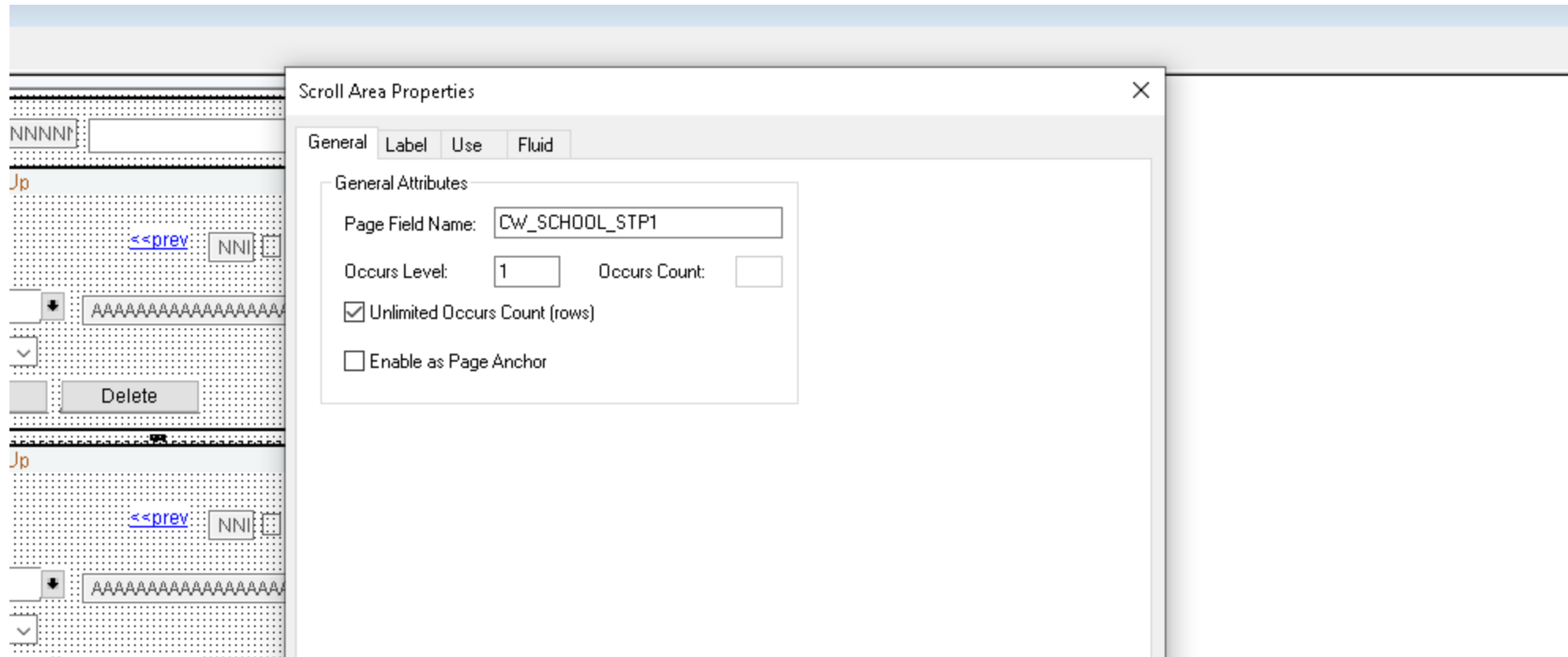
View All/View One

Duplicate the scroll area on the page

The screenshot displays a web application window titled "CW_FIELD_SETUP_FL (Page)". It features a tabbed interface with "Layout" and "Order" tabs. The main content area contains two identical, vertically stacked scrollable sections, each titled "Field Experience Set Up" with a status indicator "| << %d of %d >> |". Each section includes a "School District" field with the value "NNNNNNNNN", a "School" dropdown menu, a "Flag" dropdown menu, and "Insert" and "Delete" buttons. The second section is highlighted with a red border, indicating it is the target for duplication.

View All/View One Contd.

In the second scroll area properties, general tab, Check the 'Unlimited Occurs Count (rows)' checkbox



View All/View One Contd.

Wrap a groupbox around each scroll area

The screenshot shows a software window titled "CW_FIELD_SETUP_FL (Page)" with a "Layout" tab selected. The interface contains two identical "Field Experience Set Up" group boxes, each with a dotted border. Each group box includes a "School District" field with the value "NNNNNNNNN", a "next>" button, a "22222" field, a "NNI" field, and a "<prev" button. Below these are "School" and "Flag" dropdown menus, followed by "Insert" and "Delete" buttons. The background of the window is a light blue grid.

View All/View One Contd.

Set the groupbox properties for each groupbox

- Record tab
- Use tab
- Fluid tab

View All/View One Contd.

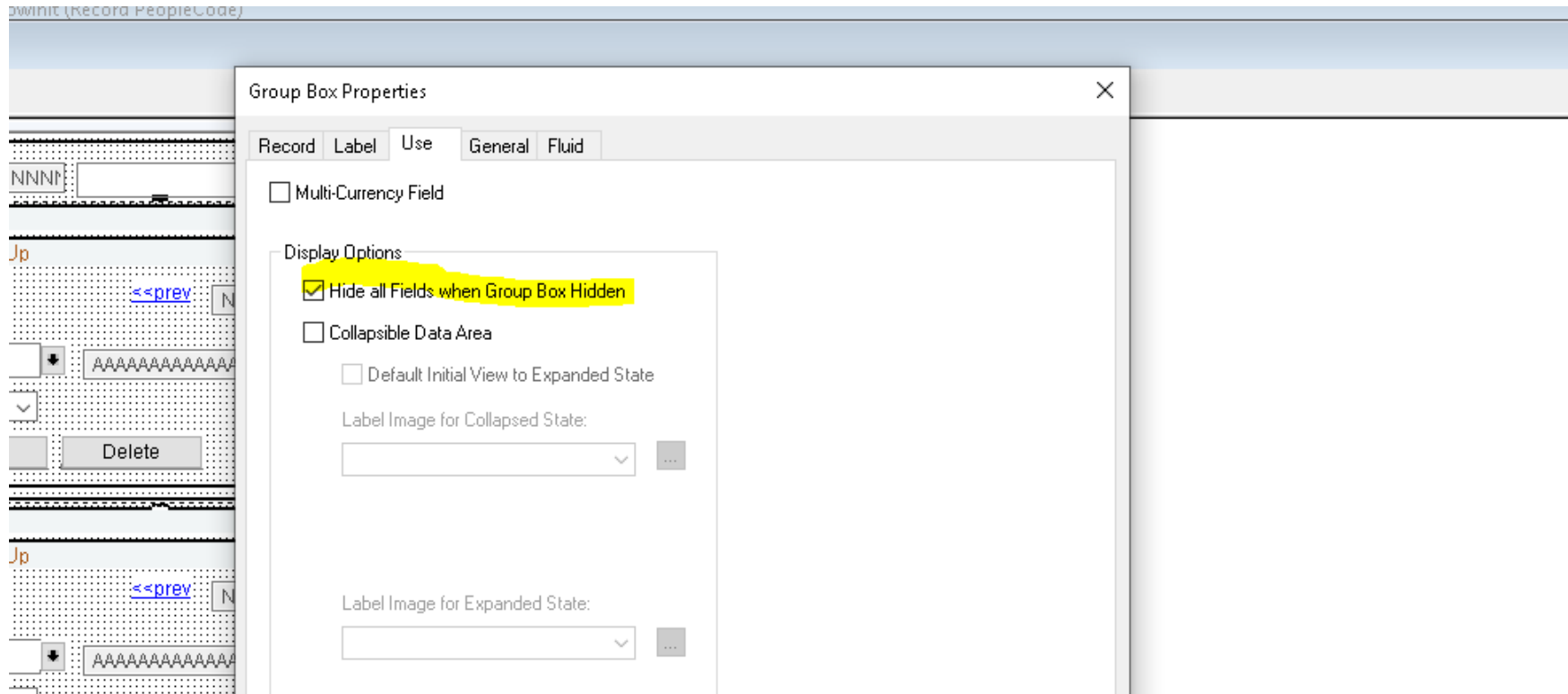
Record tab: Set the record and field name

The screenshot shows a 'Group Box Properties' dialog box with a close button (X) in the top right corner. The 'Record' tab is selected, showing fields for 'Record Name' and 'Field Name'. Both fields are highlighted in yellow. The 'Record Name' is set to 'CW_FLD_EX_WRK' and the 'Field Name' is set to 'GROUPBOX4'. The background shows a portion of a software interface with a 'Delete' button and a '<<prev' button.

Field
Record Name: CW_FLD_EX_WRK
Field Name: GROUPBOX4

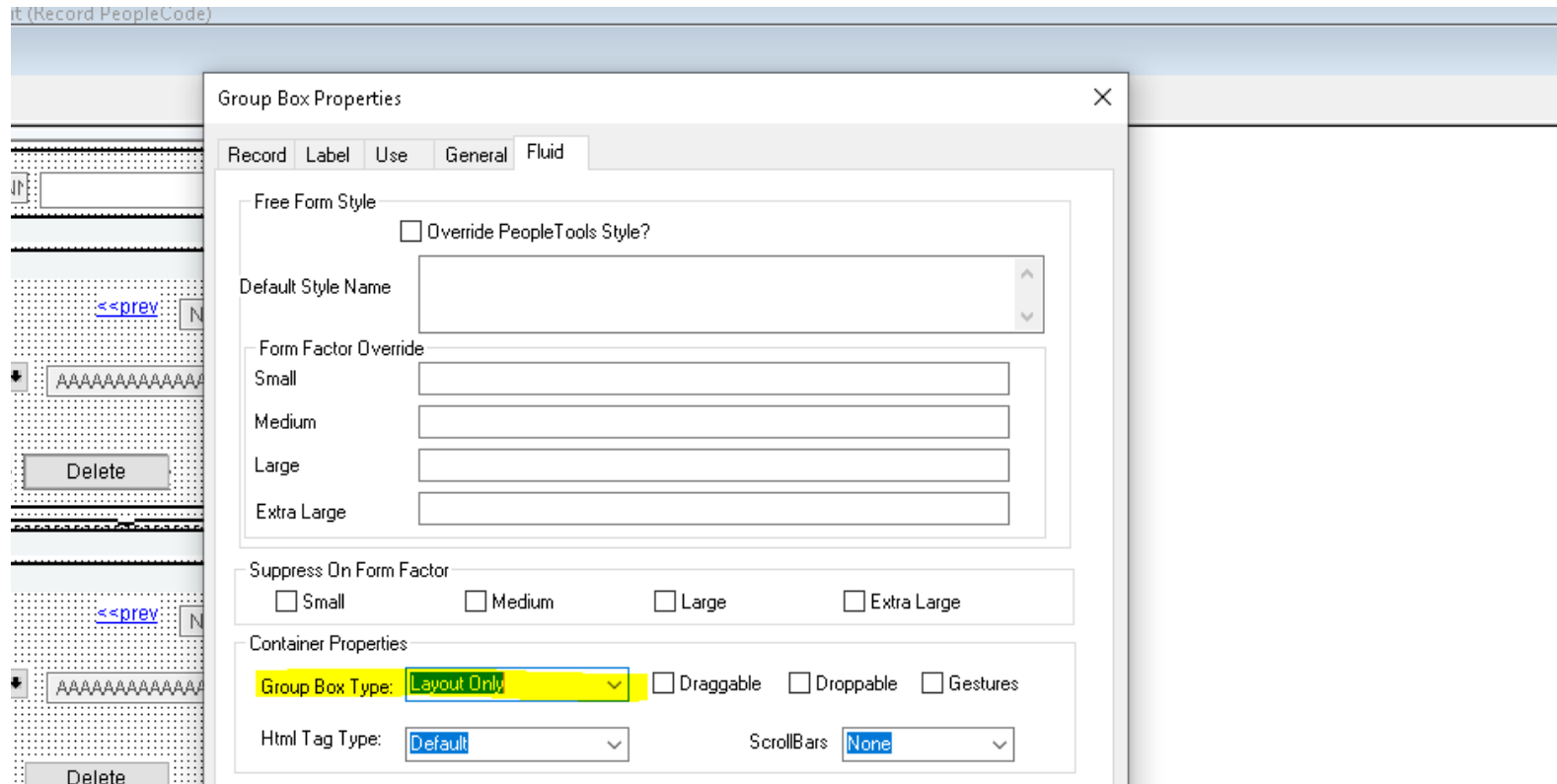
View All/View One Contd.

Use tab: Check the 'Hide all Fields when Group Box Hidden' checkbox



View All/View One Contd.

Fluid tab: Set the groupbox type to Layout only



View All/View One Contd.

Add the push buttons/links to the page

The screenshot shows a software window titled "CW_FIELD_SETUP_FL (Page)". It has two tabs: "Layout" and "Order". The main content area contains two identical "Group box" sections, each titled "Field Experience Set Up".

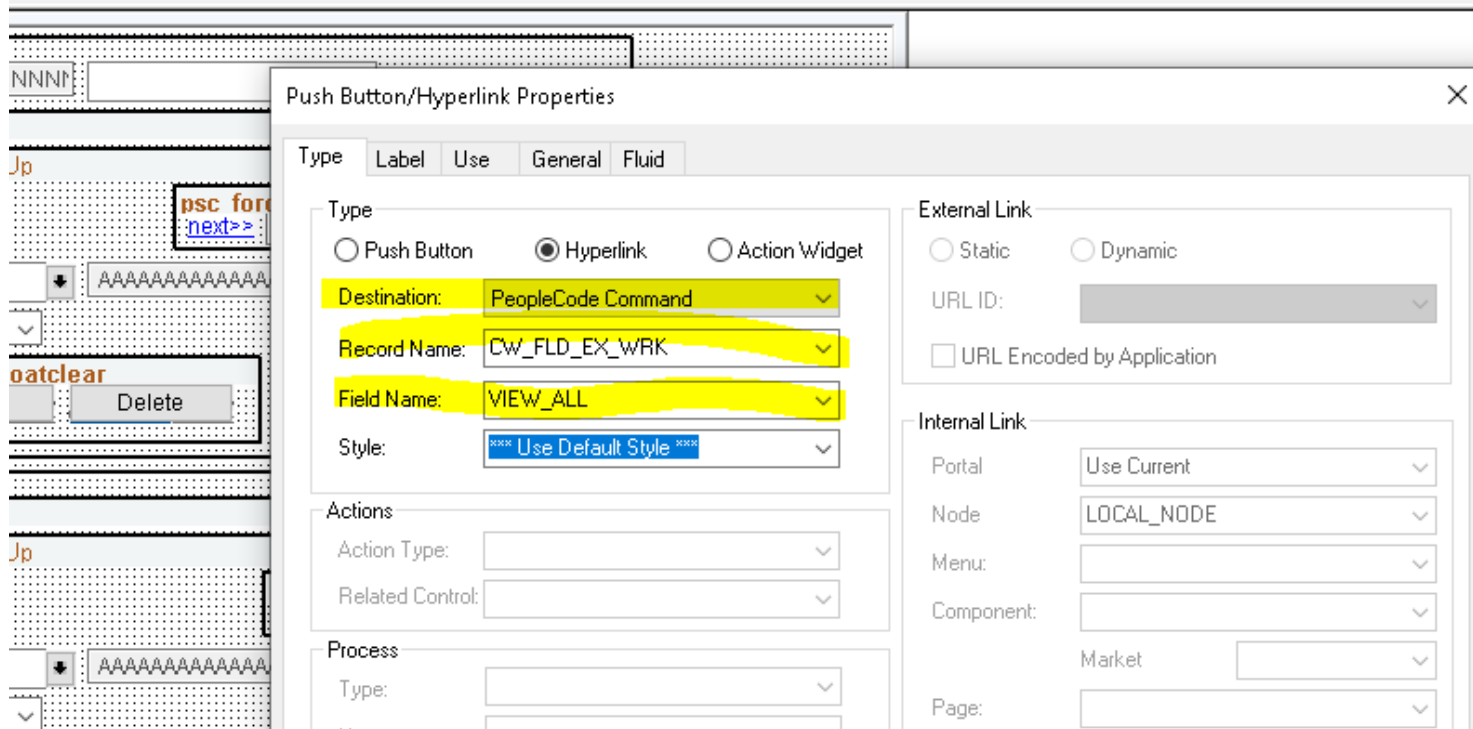
Each "Group box" contains the following elements:

- A "School District" label followed by a text field containing "NNNNNNNNNN".
- A "View All" or "View One" link (highlighted with a dashed box in the "View One" section).
- Navigation buttons: "<<prev", "NNI", "22222", and "next>>".
- A "School" label followed by a dropdown menu and a text field containing "AA".
- A "Flag" label followed by a dropdown menu.
- "Insert" and "Delete" buttons.

View All/View One Contd.

Set the push button/link properties for each push button/link

- Type tab: Set the destination to PeopleCode Command and set the record and field names



View All/View One Contd.

Add PeopleCode:

Page Activate example code:

```
/* default to view one */  
CW_FLD_EX_WRK.GROUPBOX5.Visible = False;
```

VIEW_ALL Field Change example code:

```
CW_FLD_EX_WRK.GROUPBOX4.Visible = False;  
CW_FLD_EX_WRK.GROUPBOX5.Visible = True;
```

VIEW_PB (view one) Field Change example code:

```
CW_FLD_EX_WRK.GROUPBOX4.Visible = True;  
CW_FLD_EX_WRK.GROUPBOX5.Visible = False;
```

View All/View One Contd.

View One

Search Results

Field Experience Set Up

School District 22322257

Ellensburg School District

Field Experience Set Up

Insert

View All

*School 10530068

Lincoln Elementary

1 of 10

Delete

<<prevnext>>

*Flag Active

View All/View One Contd.

View All

Search Results

Field Experience Set Up

School District 22322257

Ellensburg School District

Field Experience Set Up

1 of 10

Insert

Delete

View One

<<prevnext>>

*School

10530068

Lincoln Elementary

*Flag

Active

Field Experience Set Up

2 of 10

View One

<<prevnext>>

*School

10530172

Mt. Stuart Elementary

*Flag

Active

Field Experience Set Up

3 of 10

View One

<<prevnext>>

*School

10530185

Valley View Elementary School

*Flag

Active

Field Experience Set Up

4 of 10

View One

<<prevnext>>

Styling Fluid Scroll Area Controls

Adding these new controls to the scroll will generally not be enough to provide the best experience. You will have to design and organize the page in a practical manner. In addition, form factor display should be heavily considered. Think about how the scroll will display on a mobile device, laptop, and desktop at minimum.

Styling Fluid Scroll Area Controls Cont.

Here is the final page design after performing steps 4, 6, and 7 of the classic to fluid conversion instructions.

)
BL)

Layout | Order

School District: NNNNNNNNN

Group box

Field Experience Set Up |<< %d of %d >>|

[View All](#)

psc force-floatclear

next> 22222 | | NNI | <<prev

School: [dropdown] AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Flag: [dropdown]

psc force-floatclear

Insert Delete

Group box

Field Experience Set Up |<< %d of %d >>|

[View One](#)

psc force-floatclear

22222 | | NNI |

School: [dropdown] AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Flag: [dropdown]

psc force-floatclear

Insert Delete

Classic to Fluid Conversion

1. Create the fluid component
2. Create the fluid page and add it to the fluid component
3. Update all PeopleCode references
4. Update or delete unsupported controls
5. Enable search page
6. Adjust and finalize layout
7. Implement responsive and adaptive behaviors

Styling Fluid Scroll Area Controls Cont.

<

Search Results

Field Experience Set Up

🚩

>

☰

School District
22322257

Ellensburg School District

Field Experience Set Up

View All

<<prev 1 of 10 next>>

*School

10530068

🔍

Lincoln Elementary

*Flag

Active

▼



Insert

Delete

Styling Fluid Scroll Area Controls Cont.

[<](#) Search Results

Field Experience Set Up

[>](#) 

School District
22322257 Ellensburg School District

Field Experience Set Up

[View One](#) 1 of 10

*School
10530068 Lincoln Elementary

*Flag
Active

Insert Delete

Field Experience Set Up

[View One](#) 2 of 10

*School
10530172 Mt. Stuart Elementary

*Flag
Active

Field Experience Set Up

[View One](#) 3 of 10

*School
10530185 Valley View Elementary School

Additional Examples

Admissions Application

College Information

Press the button below to find your school. Once the prompt page appears, enter your search criteria and press the search button. Finally, select your school from the list. If your school does not appear in the search results, select the can't find my school checkbox and enter your school name and city.

Find My School

Check this box if you
can't find your school: ☐

School Name

School City

Dates of Attendance

*From Date

*To Date

MM YYYY

MM YYYY

Will you/did you earn a degree?

☐ No

<< Previous College

Next College >>

+ Add College

- Delete College

Field Experience Log

Prof. Educators Field Exp.

Save

Cancel

<< Previous [Next](#) >> - Delete + New

School Name

Mt. Stuart Elementary

*Mentor/Teacher First Name

Kelly

*Last Name

*Mentor/Teacher Email Address

*Content Level

Elementary School

*Grade Level

2nd Grade

*Principal First Name

Dan

*Last Name

*Principal Email Address

CWU Supervisor Name

Date of Activity

11/15/2019

Mentor/Teacher Present?

Yes

Interview Start Time

8:00AM

Interview End Time

3:00PM

Row Hours

7.00

Course Hours

231.75

Save

1 of 35 [View All](#)

Course ID

000779

Class Number

91569

Term

1156

Questions?

Or send to bradley.reeves@cwu.edu

Session surveys

1. Open the HEUG Events App on your phone, tablet, or laptop
2. Click on this session in your schedule
3. Then click the "Resources" button and "Survey"
You will be required to login once with your Eventsential username and password.



ALLIANCE

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Thank you!

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