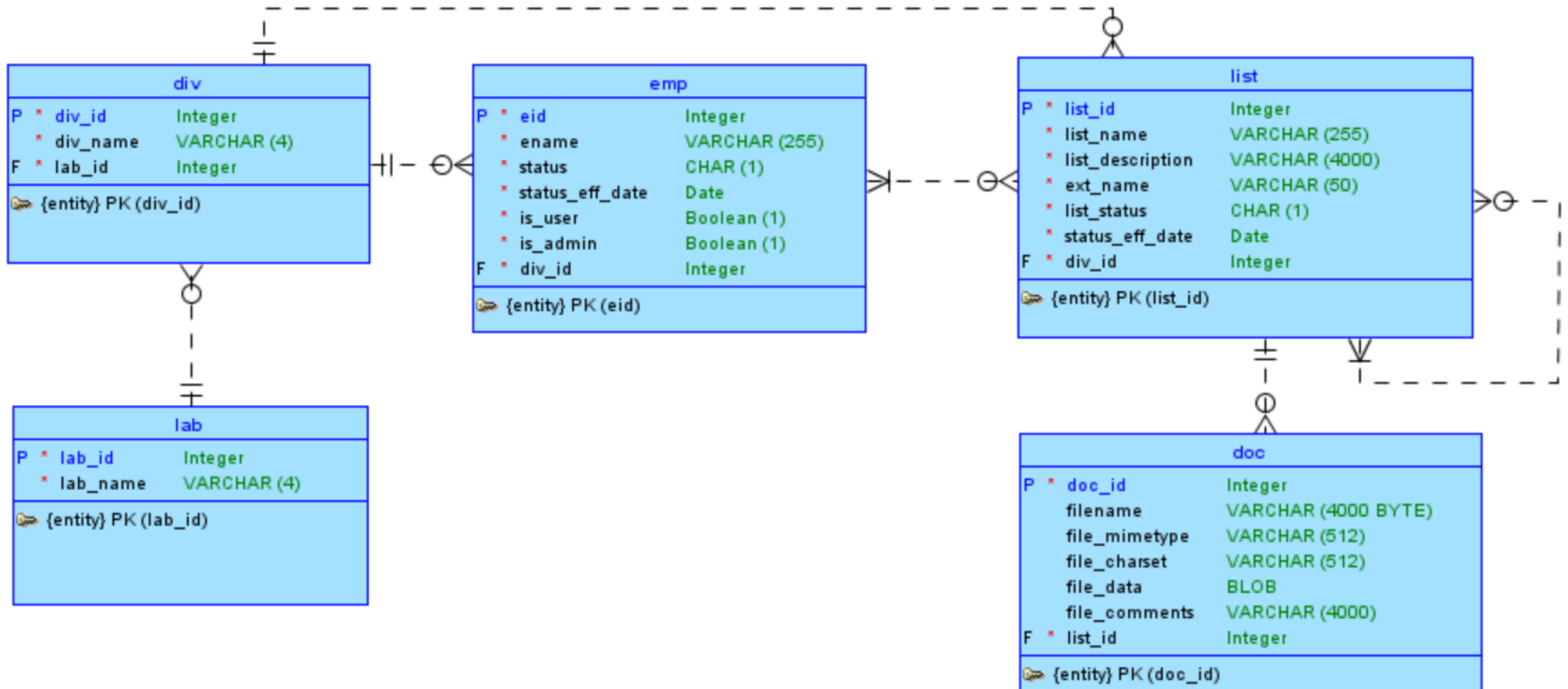


ARL Notification List

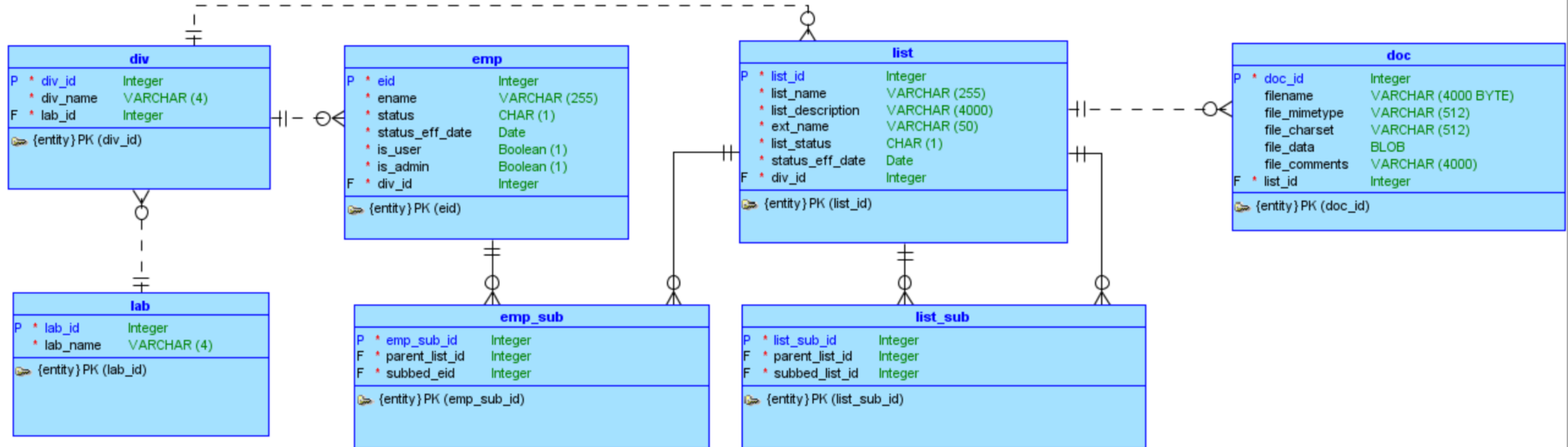
APEX Application

Daniel Coonan
Jonathan Velasquez
Nicholas Moreles

Conceptual Model



Logical Model



APEX Application Link

[Click here to view our application](#)

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Home

Login

Select a user or admin to login as

Dwayne Armstrong (ATL, ASD) ▾

Login

If you are unfamiliar with APEX, we recommend viewing the [APEX 5 Documentation](#).

Notification Lists per Lab

Labs

Login as Admin or User

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Home

Login

Select a user or admin to login as

If you are unfamiliar with APEX, we rec

Notification Lists per Lab

Dwayne Armstrong (ATL, ASD)

Admins

Dwayne Armstrong (ATL, ASD)

Emilio Maldonado (SGL, SAT)

Gertrude Francis (ITS, ITS)

Nicholas Moneybags (ADS, ACC)

Rogelio Park (SISL, SPD)

Users

Alejandro Martin (SGL, SAT)

Amelia Marshall (ADS, PUR)

Bonnie Nelson (ADS, ADS)

Cory Walton (ITS, ITS)

Donna Wood (ITS, MISS)

Francis French (ATL, ATL)

Gayle Frank (ADS, CON)

Henrietta Underwood (ITS, ITS)

Holly Andrews (SGL, SAT)

Jeannette Banks (ATL, ASD)

Jesse Graham (SGL, SGL)

Josh Chandler (SISL, SPD)

Melba Pierce (ESL, ESL)

Login

4

Labs

ADS

ITS

SGL

ESL

Must Haves / Good to Haves

Shortcut to Apex Document + Login Group Select

Must Haves

Shortcut Shared Component
Group Select

Tree
Search Bar
Region Display Selector
Shuttle
Upload
Download
Data Loading (CSV Import)
CSV Export
Modal Returns to Modal

Good to Haves

Pie Chart
Theme Roller

Login

Select a user or admin to login as Login

If you are unfamiliar with APEX, we recommend viewing the [APEX 5 Documentation](#).

Login

Admins

- Dwayne Armstrong (ATL, ASD)
- Emilio Maldonado (SGL, SAT)
- Gertrude Francis (ITS, ITS)
- Nicholas Moneybags (ADS, ACC)
- Rogelio Park (SISL, SPD)

Users

- Alejandro Martin (SGL, SAT)
- Amelia Marshall (ADS, PUR)
- Bonnie Nelson (ADS, ADS)
- Cory Walton (ITS, ITS)
- Donna Wood (ITS, MISS)
- Francis French (ATL, ATL)
- Gayle Frank (ADS, CON)
- Henrietta Underwood (ITS, ITS)
- Holly Andrews (SGL, SAT)
- Jeannette Banks (ATL, ASD)
- Jesse Graham (SGL, SGL)
- Josh Chandler (SISL, SPD)
- Melba Pierce (ESL, ESL)

Must Haves / Good to Haves

Theme Roller + Pie Chart = Good to Haves Done

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

Tree

Search Bar

Region Display Selector

Shuttle

Upload

Download

Data Loading (CSV Import)

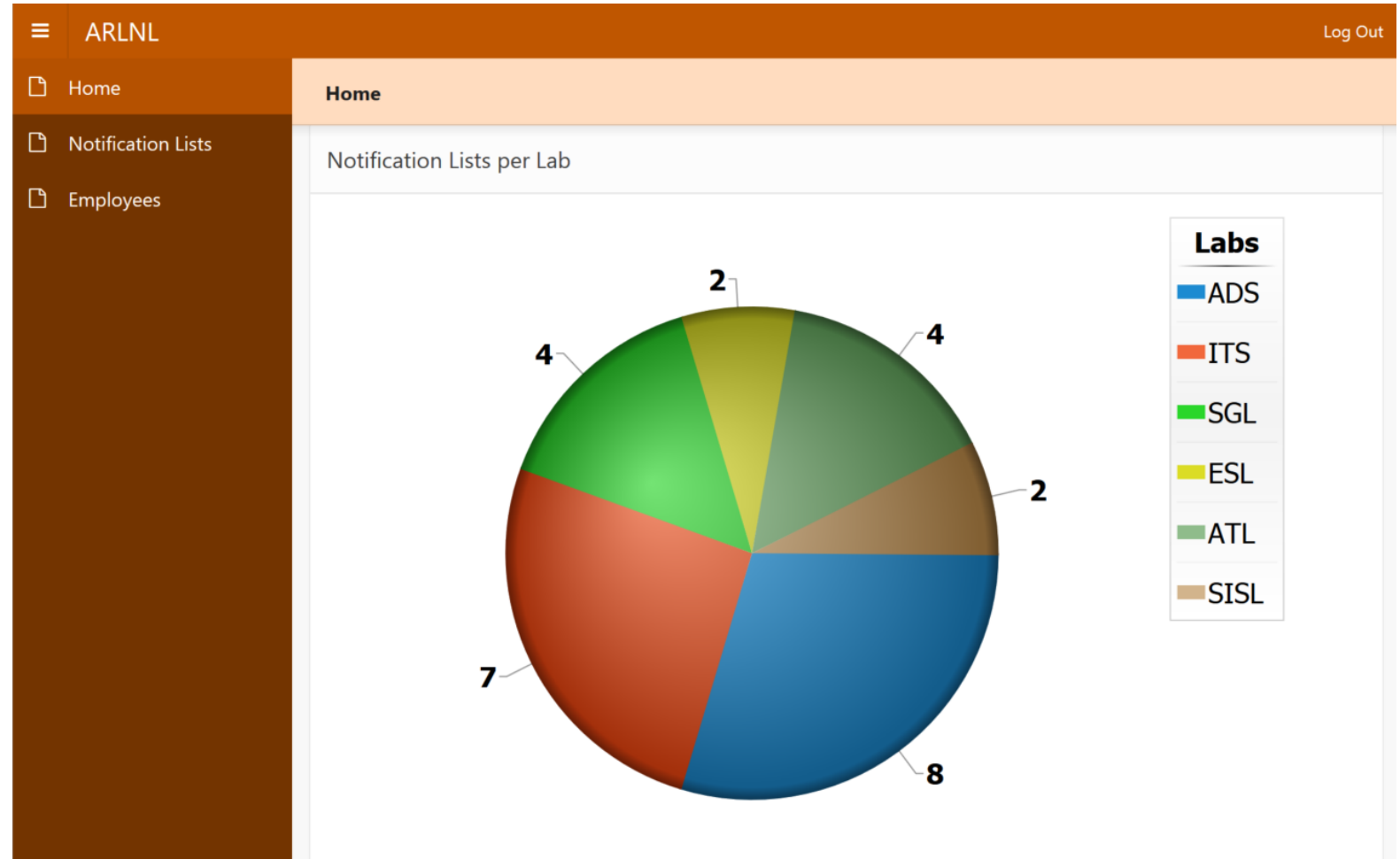
CSV Export

Modal Returns to Modal

Good to Haves

~~Pie Chart~~

~~Theme Roller~~



Must Haves / Good to Haves

Lab -> Division -> Notification List -> Subscribers Tree

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

Search Bar

Region Display Selector

Shuttle

Upload

Download

Data Loading (CSV Import)

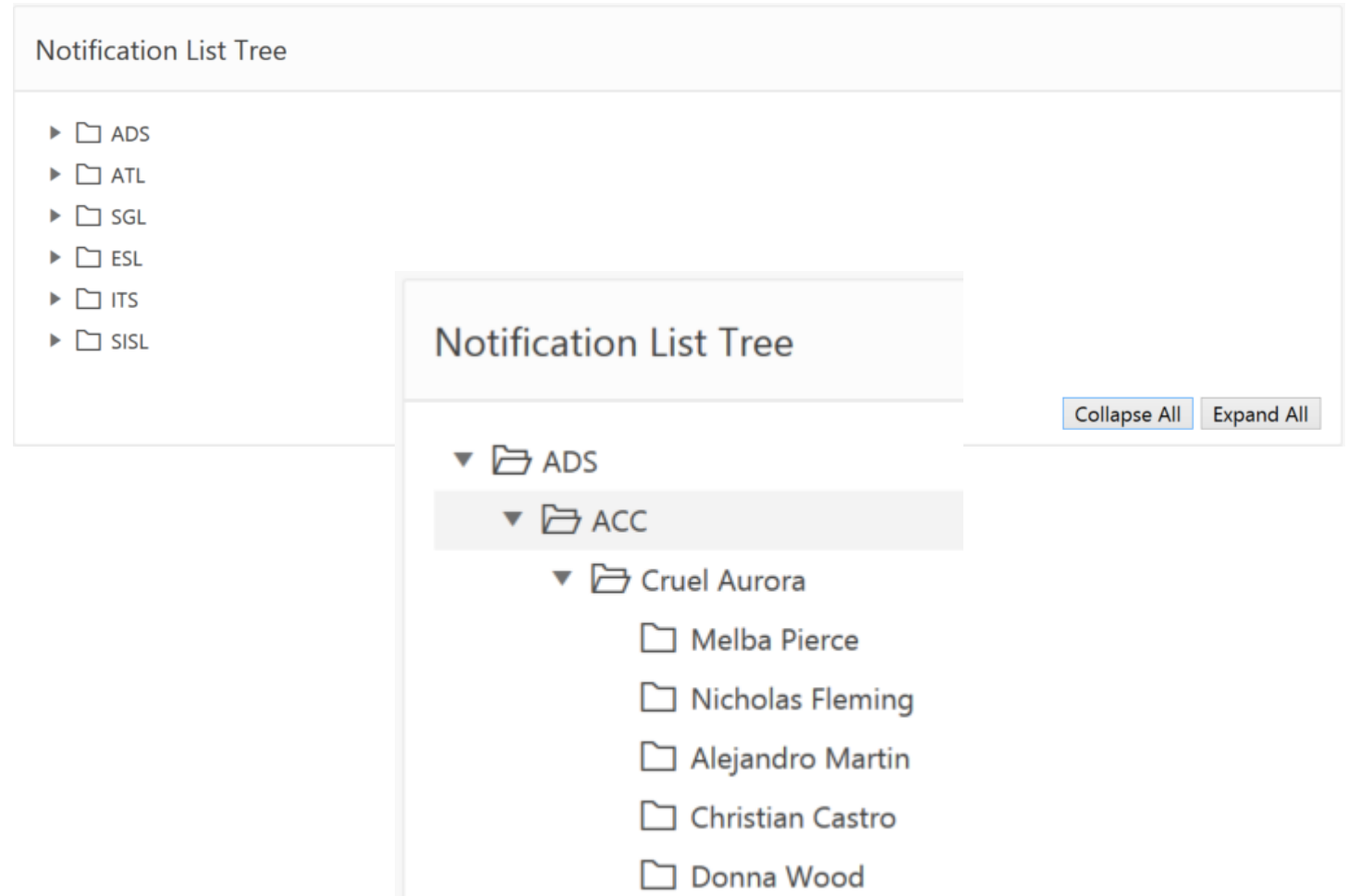
CSV Export

Modal Returns to Modal

Good to Haves

~~Pie Chart~~

~~Theme Roller~~



Must Haves / Good to Haves

Tree SQL Query

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

Search Bar

Region Display Selector

Shuttle

Upload

Download

Data Loading (CSV Import)

CSV Export

Modal Returns to Modal

Good to Haves

~~Pie Chart~~

~~Theme Roller~~

Region Source: ?

```
1 select case when connect_by_isleaf = 1 then 0
2               when level = 1               then 1
3               else                           -1
4               end as status,
5               level,
6               name as title,
7               null as icon,
8               id as value,
9               null as tooltip,
10              null as link
11 from (
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
11 from (
12     select 'lab_' || l.lab_id id,
13            to_char(null) parent_id,
14            l.lab_name name
15     from lab l
16     union
17     select 'div_' || d.div_id,
18            'lab_' || d.lab_lab_id,
19            d.div_name
20     from div d
21     union
22     select 'list_' || li.list_id,
23            'div_' || li.div_div_id,
24            li.list_name
25     from list li
26     union
27     select 'sub_e_' || es.emp_sub_id,
28            'list_' || es.list_list_id,
29            e.ename
30     from emp_sub es join emp e on es.emp_eid = e.eid
31 )
32 start with parent_id is null
33 connect by parent_id = prior id
```

Must Haves / Good to Haves

Search Bar for Employees by Name

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

Search Bar

Region Display Selector

Shuttle

Upload

Download

Data Loading (CSV Import)

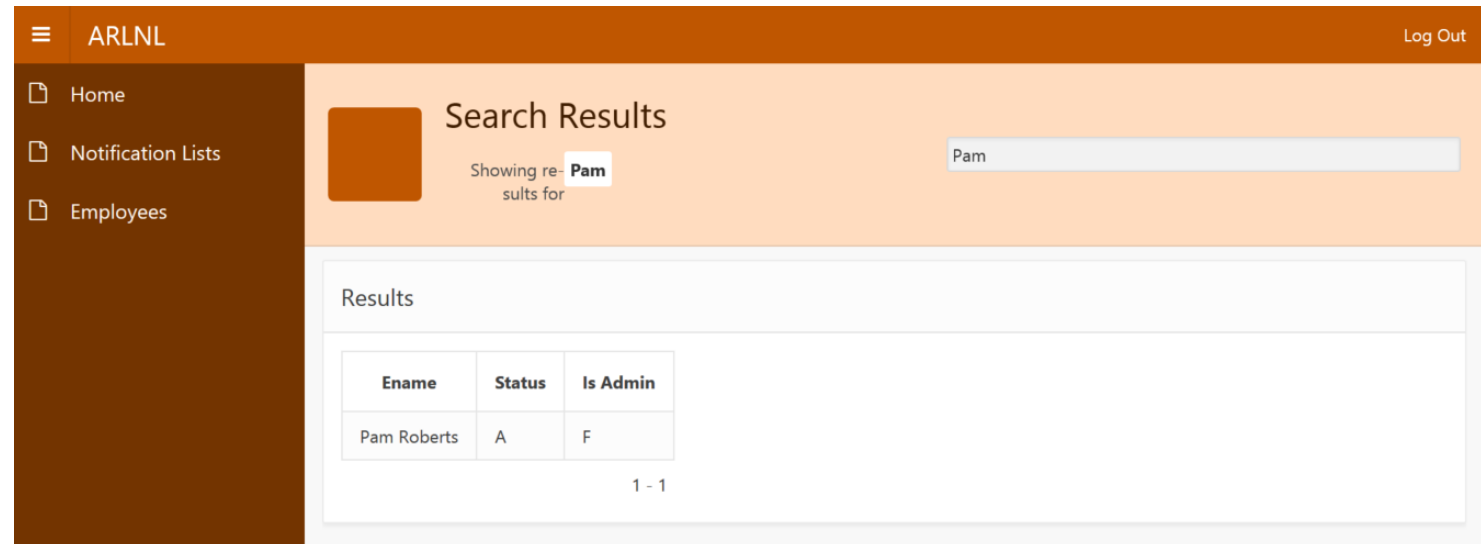
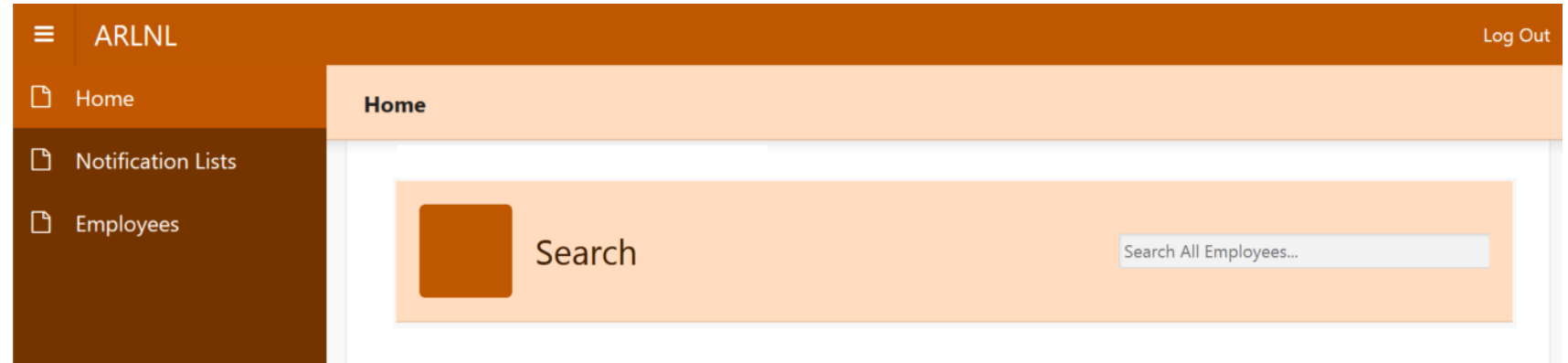
CSV Export

Modal Returns to Modal

Good to Haves

~~Pie Chart~~

~~Theme Roller~~



Select a division to view its lists

Admins can see all divisions; Users can only see divisions in their lab

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Notification Lists

Division Selection

Select a division to view their lists

ACC

ADS

ACC

ADS

CON

PUR

ATL

ASD

ATL

ESL

ESL

ITS

CSD

ITS

MISS

SGL

SAT

SGL

SISL

SPD

Submit

Notification lists for the selected division:

Q

Actions

Create

No data found.

All of a division's lists are shown

Create, Edit, or Manage a List

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Notification Lists

Division Selection

Select a division to view their lists

ACC

▼

Submit

Notification lists for the selected division:

Q



▼

Go

Actions

▼

Create

		Name	External Name	Description	Division	Status	Status Effective Date
	Manage List	Cruel Aurora	Fire Eye	Were there fewer fools, knaves would starve.	ACC	Active	23-APR-15
	Manage List	Crisp Knight	Black Knight	CK	ACC	Inactive	26-APR-15

1 - 2

Must Haves / Good to Haves

List Detail Page has a region display selector

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

~~Search Bar~~

Region Display Selector

~~Shuttle~~

~~Upload~~

~~Download~~

~~Data Loading (CSV Import)~~

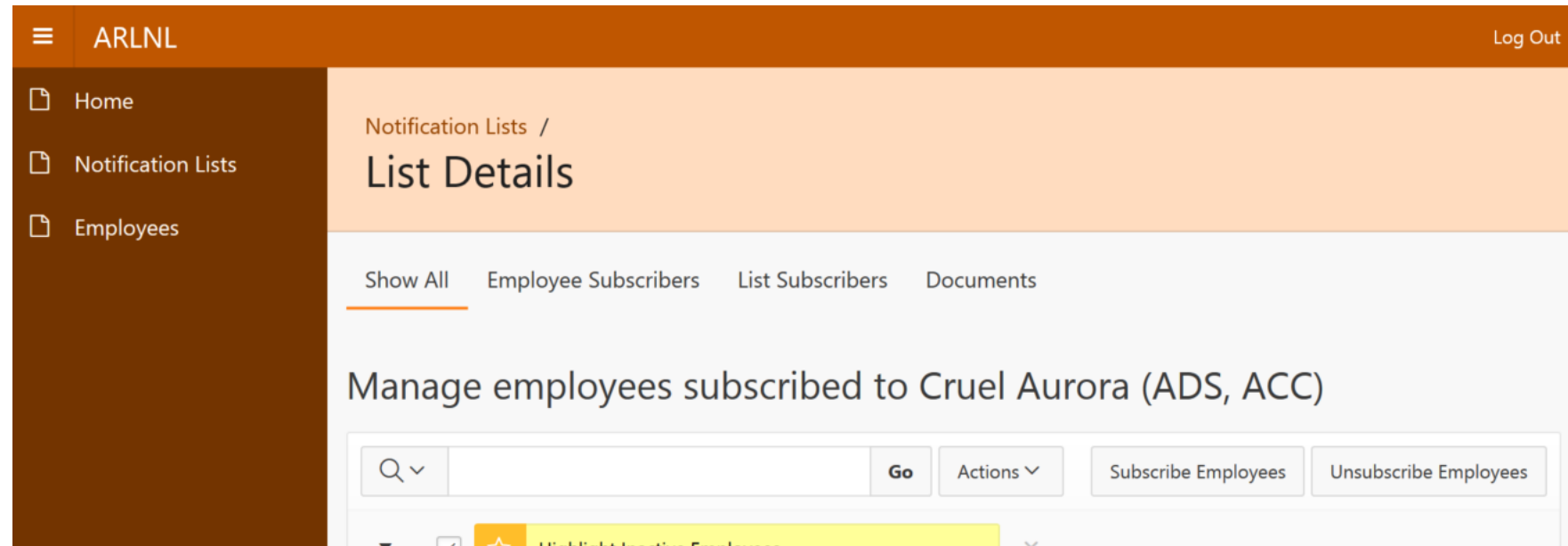
~~CSV Export~~

~~Modal Returns to Modal~~

Good to Haves

~~Pie Chart~~

~~Theme Roller~~



List Details Page

Manage employees subscribed to a list

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Notification Lists /

List Details

Show All

Employee Subscribers

List Subscribers

Documents

Manage employees subscribed to Cruel Aurora (ADS, ACC)

Q

Go

Actions

Subscribe Employees

Unsubscribe Employees

▼

☒

★ Highlight Inactive Employees

×

Employee's Lab	Employee's Division	Employee's Name	Unsubscribe	Status
ADS	PUR	Nicholas Fleming	Unsubscribe	Inactive
ATL	ATL	Christian Castro	Unsubscribe	Inactive
ESL	ESL	Melba Pierce	Unsubscribe	Active
SGL	SAT	Alejandro Martin	Unsubscribe	Active

1 - 4

Must Haves / Good to Haves

Subscribe/unsubscribe shuttles in modal dialog

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

Tree

~~Search Bar~~

~~Region Display Selector~~

Shuttle

Upload

Download

Data Loading (CSV Import)

CSV Export

Modal Returns to Modal

Good to Haves

Pie Chart

~~Theme Roller~~

Subscribe Employees to Cruel Aurora

Select employees to subscribe

Amelia Marshall (PUR)

Bonnie Nelson (ADS)

Cory Walton (ITS)

Debra Allison (ESL)

Donna Wood (MISS)

Dwayne Armstrong (ASD)

Ella Wilkerson (PUR)

Emilio Maldonado (SAT)

Francis French (ATL)

Gayle Frank (CON)

↺

↻

⏏

➤

⏪

⏩

Subscribe / Unsubscribe PL/SQL

Subscribe Process

* Process ?

```
1 declare
2   l_vc_arr2 apex_application_global.vc_arr2;
3
4 begin
5   l_vc_arr2 := apex_util.string_to_table(:SUBSCRIBE_EMP);
6
7   for i in 1..l_vc_arr2.count
8   loop
9     begin
10      insert into emp_sub
11      (list_list_id, emp_eid)
12      values
13      (:LIST_DETAILS_ID, to_number(l_vc_arr2(i)));
14    end;
15  end loop;
16 end;
```

Unsubscribe Process

* Process ?

```
1 declare
2   l_vc_arr2 apex_application_global.vc_arr2;
3
4 begin
5   l_vc_arr2 := apex_util.string_to_table(:UNSUBSCRIBE_EMP);
6
7   for i in 1..l_vc_arr2.count
8   loop
9     begin
10      delete from emp_sub
11      where list_list_id = :LIST_DETAILS_ID and emp_eid = to_number(l_vc_arr2(i));
12    end;
13  end loop;
14 end;
```


List Details Page

Manage lists subscribed to a list

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Notification Lists /

List Details

Show All

Employee Subscribers

List Subscribers

Documents

Manage lists subscribed to Cruel Aurora (ADS, ACC)

Q

Go

Actions

Subscribe Lists

Unsubscribe Lists

▼

☒

☆ Highlight Inactive Lists

×

List's Lab	List's Division	List's Name	Unsubscribe	Status
ADS	ADS	Mad Bee	Unsubscribe	Active
ADS	CON	Silent Bird	Unsubscribe	Active
ADS	PUR	Puzzled Nurse	Unsubscribe	Active
ITS	MISS	Tinted Whisper	Unsubscribe	Active

1 - 4

List Details Page

Manage documents associated with a list

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Notification Lists /

List Details

Show All

Employee Subscribers

List Subscribers

Documents


Manage documents associated with Cruel Aurora (ADS, ACC)

Q

Go

Actions

Upload Document

	File Data	Filename	File Comments	File Mimetype	File Charset	Updated By	Updated
	Download	final2.ddl	The final data model.	application/octet-stream	utf-8	APEX_PUBLIC_USER	28-APR-15

1 - 1

Must Haves / Good to Haves

Downloads + Upload a document to a list via modal dialog

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

~~Search Bar~~

~~Region Display Selector~~

~~Shuttle~~

Upload

Download

Data Loading (CSV Import)

CSV Export

Modal Returns to Modal

Good to Haves

~~Pie Chart~~

~~Theme Roller~~

Upload Document to Cruel Aurora

File Data *

Browse...

No file selected.

File Charset

File Comments

Cancel

Create

Employees Page

Import/Export CSV, Add/Edit Employee, Manage Employee

ARLNL

Home

Notification Lists

Employees

Log Out

Employees

Q

Go

Actions

Export Employees To CSV

Import Employees From CSV

Insert Employee

		Employee Name	Access Level	Lab Name	Division Name	Status	Status Effective Date
	Manage Employee	Nicholas Moneybags	Admin	ADS	ACC	Active	26-APR-15
	Manage Employee	Dwayne Armstrong	Admin	ATL	ASD	Active	22-APR-15
	Manage Employee	Gertrude Francis	Admin	ITS	ITS	Active	22-APR-15
	Manage Employee	Emilio Maldonado	Admin	SGL	SAT	Active	22-APR-15
	Manage Employee	Rogelio Park	Admin	SISL	SPD	Active	23-APR-15
	Manage Employee	Pam Roberts	Employee	ADS	CON	Active	22-APR-15
	Manage Employee	Ella Wilkerson	Employee	ADS	PUR	Active	26-APR-15
	Manage Employee	Debra Allison	Employee	ESL	ESL	Active	22-APR-15
	Manage Employee	Nathan Perry	Employee	SGL	SGL	Active	22-APR-15
	Manage Employee	Rex Ramsey	User	ADS	ACC	Active	22-APR-15

Must Haves / Good to Haves

Downloads + Upload a document to a list via modal dialog

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

~~Search Bar~~

~~Region Display Selector~~

~~Shuttle~~

~~Upload~~

~~Download~~

~~Data Loading (CSV Import)~~

~~CSV Export~~

Modal Returns to Modal

Good to Haves

~~Pie Chart~~

~~Theme Roller~~

The screenshot shows a web application interface for 'Employee Data Load Source'. The top navigation bar is orange with 'ARLNL' and a 'Log Out' link. A sidebar on the left contains links for 'Home', 'Notification Lists', and 'Employees'. The main content area has a progress bar with four steps: 'Employee Data Load Source' (active), 'Data / Table Mapping', 'Data Validation', and 'Data Load Results'. Below the progress bar, the 'Employee Data Load Source' form is displayed. It includes a 'Cancel' button on the left and a 'Next' button on the right. The form has two sections: 'Import From' and 'Globalization'. The 'Import From' section has radio buttons for 'Upload file, comma separated (*.csv) or tab delimited' and 'Copy and Paste' (selected). Below this are fields for 'Separator' (set to '\t'), 'Optionally Enclosed By' (set to '"'), 'First Row has Column Names' (checked 'Yes'), 'Use Application Date Format' (checked 'Yes'), and 'File Character Set' (set to 'UTF-8'). A large text area for 'Copy and Paste Delimited Data' is at the bottom of this section. The 'Globalization' section at the bottom has fields for 'Currency Symbol' (set to '\$'), 'Group Separator' (set to ','), and 'Decimal Character' (set to '.'). Each field has a help icon (?) to its right.

Must Haves / Good to Haves

“Submit and Insert Another” Button = We Have It All

Must Haves

~~Shortcut Shared Component~~

~~Group Select~~

~~Tree~~

~~Search Bar~~

~~Region Display Selector~~

~~Shuttle~~

~~Upload~~

~~Download~~

~~Data Loading (CSV Import)~~

~~CSV Export~~

~~Modal Returns to Modal~~

Good to Haves

~~Pie Chart~~

~~Theme Roller~~

Insert Employee

Name *

Status *

Active

Is User? *

Yes

Is Admin? *

Yes

Division *

ACC

Cancel

Submit and Insert Another

Submit and Close

Employees Page

User version provides fewer features and only to employees in same lab

ARLNL

Home

Notification Lists

Employees

Log Out

Employees

Q

Go

Actions

	Employee Name	Access Level	Lab Name	Division Name	Status	Status Effective Date
Manage Employee	Pam Roberts	Employee	ADS	CON	Active	22-APR-15
Manage Employee	Ella Wilkerson	Employee	ADS	PUR	Active	26-APR-15
Manage Employee	Rex Ramsey	User	ADS	ACC	Active	22-APR-15
Manage Employee	Bonnie Nelson	User	ADS	ADS	Active	22-APR-15
Manage Employee	Gayle Frank	User	ADS	CON	Active	22-APR-15
Manage Employee	Amelia Marshall	User	ADS	PUR	Active	22-APR-15
Manage Employee	Samantha Phelps	Employee	ADS	ACC	Inactive	22-APR-15
Manage Employee	Monique Williamson	User	ADS	CON	Inactive	22-APR-15

1 - 8

Employee Details Page

Clone Member, Batch Unsubscribe, Unsubscribe Link

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Employees /

Employee Details

Manage List Subscriptions for Bonnie Nelson (ADS, ADS)

Q

Go

Actions

Clone Member

Unsubscribe from All Lists

Unsubscribe from ADS Lists

▼

☒

☆

Highlight Inactive Lists

×

Lab Name	Div Name	List Name	Unsubscribe	Status
ADS	ACC	Crisp Knight	Unsubscribe	Inactive
ADS	ADS	Mad Bee	Unsubscribe	Active
ADS	CON	Silent Bird	Unsubscribe	Active
ADS	PUR	Puzzled Nurse	Unsubscribe	Active
ESL	ESL	Blissful Salesman	Unsubscribe	Active
ITS	MISS	Evil Wizard	Unsubscribe	Active

1 - 6

Employee Details Page

Again, users see a more limited set of features

≡

ARLNL

Log Out

Home

Notification Lists

Employees

Employees /

Employee Details

Manage List Subscriptions for Bonnie Nelson (ADS, ADS)

Q ▾

Go

Actions ▾

Clone Member

Unsubscribe from ADS Lists

▾

☒

☆

Highlight Inactive Lists

×

Lab Name	Div Name	List Name	Unsubscribe	Status
ADS	ACC	Crisp Knight	Unsubscribe	Inactive
ADS	ADS	Mad Bee	Unsubscribe	Active
ADS	CON	Silent Bird	Unsubscribe	Active
ADS	PUR	Puzzled Nurse	Unsubscribe	Active

1 - 4

Unsubscribe Buttons PL/SQL

Only admins can unsubscribe from all lists

Unsubscribe from **all lists**

```
* Process (?)  
1 BEGIN  
2 DELETE FROM emp_sub  
3 WHERE list_list_id = :P12_UNSUB_LIST_ID AND emp_eid = :EMPLOYEE_DETAILS_ID;  
4 END;
```

Unsubscribe from **lists only in a given lab**

```
* Process (?)  
1 BEGIN  
2 DELETE FROM emp_sub  
3 WHERE emp_eid = :EMPLOYEE_DETAILS_ID  
4 AND list_list_id IN  
5 (  
6 SELECT li.list_id  
7 FROM list li  
8 JOIN div d on li.div_div_id = d.div_id  
9 WHERE d.lab_lab_id = :EMPLOYEE_DETAILS_LAB_ID  
10 );  
11 END;
```

Employee Details Page

Subscription cloning via modal dialog

Clone Bonnie Nelson 's Subscriptions to Another Member

Select an employee to clone the subscriptions to *

Alejandro Martin (SAT)

Alejandro Martin (SAT)

Amelia Marshall (PUR)

Christian Castro (ATL)

Cory Walton (ITS)

Debra Allison (ESL)

Donna Wood (MISS)

Dwayne Armstrong (ASD)

Ella Wilkerson (PUR)

Emilio Maldonado (SAT)

Francis French (ATL)

Gayle Frank (CON)

Gertrude Francis (ITS)

Henrietta Underwood (ITS)

Holly Andrews (SAT)

Jeannette Banks (ASD)

Jesse Graham (SGL)

Josh Chandler (SPD)

Melba Pierce (ESL)

Monique Williamson (CON)

Nathan Perry (SGL)

Cancel

Clone

Employee Subscription Cloning

Process that kicks off PL/SQL code
(that took way too long to write)

* Process ?

```
1 BEGIN
2
3 DELETE FROM emp_sub
4 WHERE emp_eid = :TO_CLONE
5 AND emp_sub_id IN (
6     SELECT emp_sub_id FROM emp_sub es
7     JOIN list l ON es.list_list_id = l.list_id
8     JOIN div d ON l.div_div_id = d.div_id
9     WHERE (
10         (SELECT is_admin FROM emp WHERE eid = :login) = 'T'
11     OR
12         (d.lab_lab_id = (SELECT di.lab_lab_id
13                         FROM emp ei JOIN div di
14                         ON ei.div_div_id = di.div_id
15                         WHERE ei.eid = :TO_CLONE))
16 ))
17 ;
```

```
18
19 FOR rec IN (SELECT list_list_id FROM emp_sub es
20             JOIN list l ON es.list_list_id = l.list_id
21             JOIN div d ON l.div_div_id = d.div_id
22             WHERE emp_eid = :employee_details_id AND
23                 (((SELECT is_admin FROM emp WHERE eid = :login) = 'T')
24                  OR
25                  (d.lab_lab_id = (SELECT di.lab_lab_id
26                                  FROM emp ei JOIN div di
27                                  ON ei.div_div_id = di.div_id
28                                  WHERE ei.eid = :employee_details_id)
29                  )
30             )
31
32 LOOP
33     BEGIN
34         INSERT INTO emp_sub
35             (list_list_id, emp_eid)
36         VALUES
37             (rec.list_list_id, :TO_CLONE);
38     END;
39 END LOOP;
40 END;
```

THE END