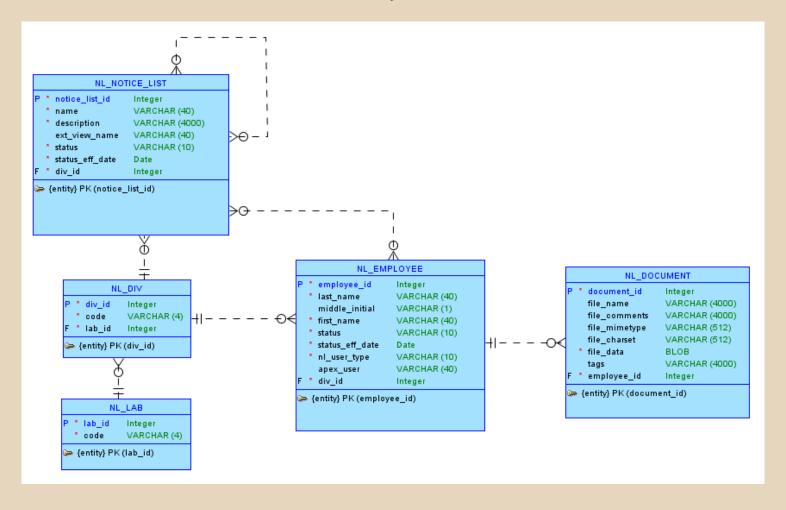
# **ARL Notice List Project**

#### CS347 Final Presentation

Steven Ritchie, Andrew Nguyen

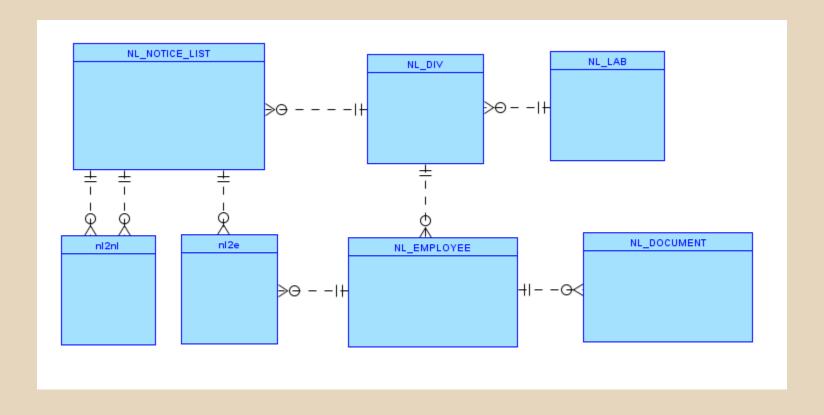
## Conceptual Model

• NL\_EMPLOYEE, NL\_DIV, NL\_LAB are read-only tables



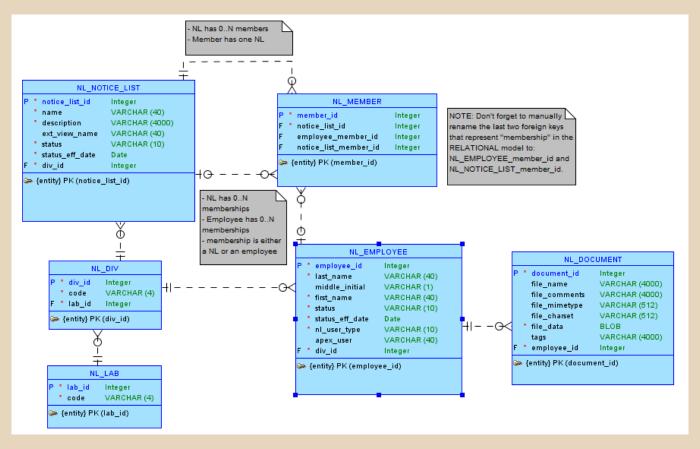
# Logical Model (Intermediate)

• Convert the two M:N relationships into two junction tables

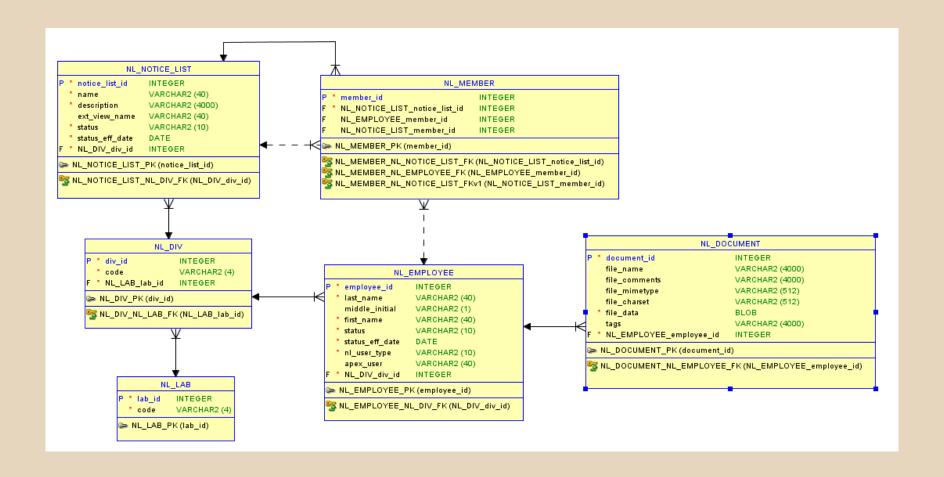


# Logical Model (Final)

To match the schema given by ARL, the NL\_MEMBER junction table combines what was two
junction tables (previous slide) into one table where EITHER employee\_member\_id OR
notice\_list\_member\_id is used.



### Logical Model Relational



### **APEX Application**

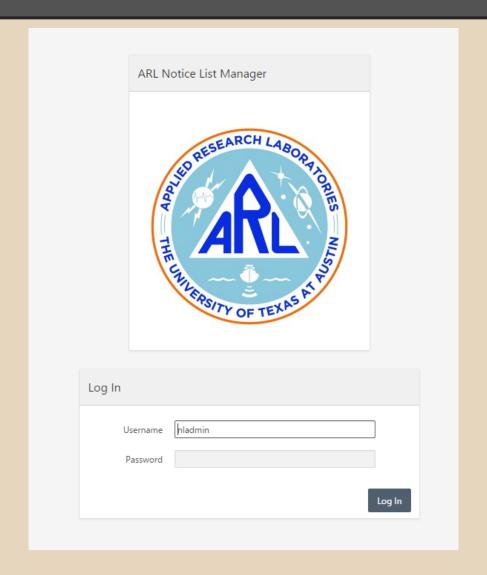
o URL

https://apex.oracle.com/pls/apex/f?p=90854:LOGIN\_DESKTOP: 106205508786492::::

- ACCOUNTS
  - ADMIN
    - user: nladmin, pwd: nladmin
  - STANDARD
    - user: nlstandard, pwd: nlstandard
  - BASIC
    - user: nlbasic, pwd: nlbasic
  - NONE
    - user: nlnone, pwd: nlnone

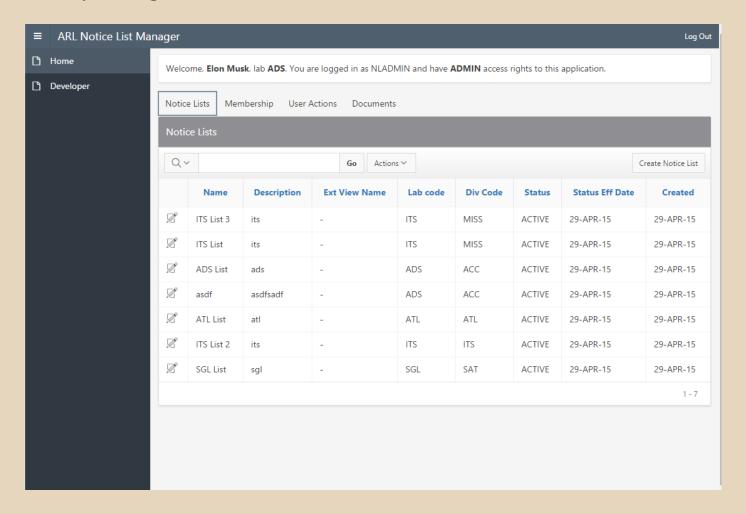
# Login Page

 Uses APEX authentication and links APEX users to NL\_EMPLOYEES



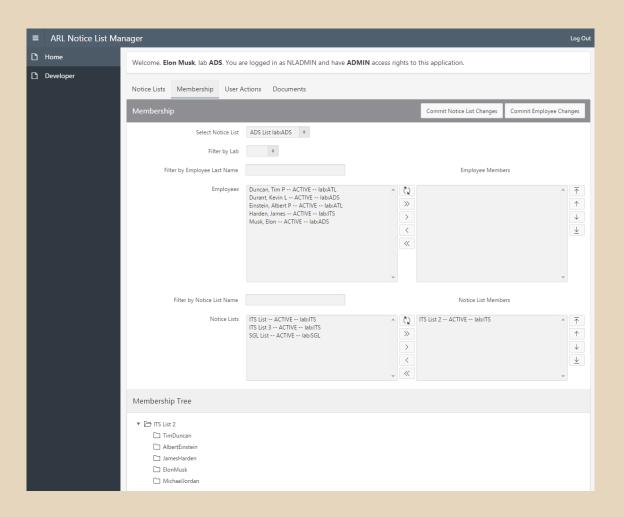
#### **Notice List Tab**

• ADMIN only, manage notice lists



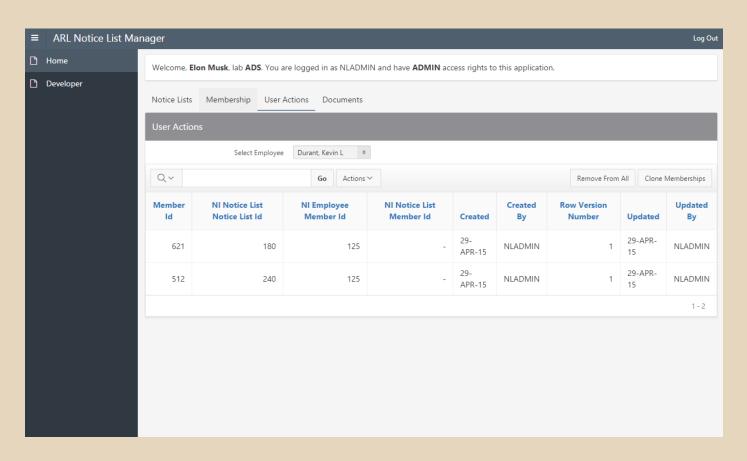
#### Members Tab

- Manage memberships
- Filter by last name
- Filter by list name
- ADMINS can control any list
- STANDARD users can only control lists in their lab
- Tree view of list membership
- Multiselect vis shuttle controls



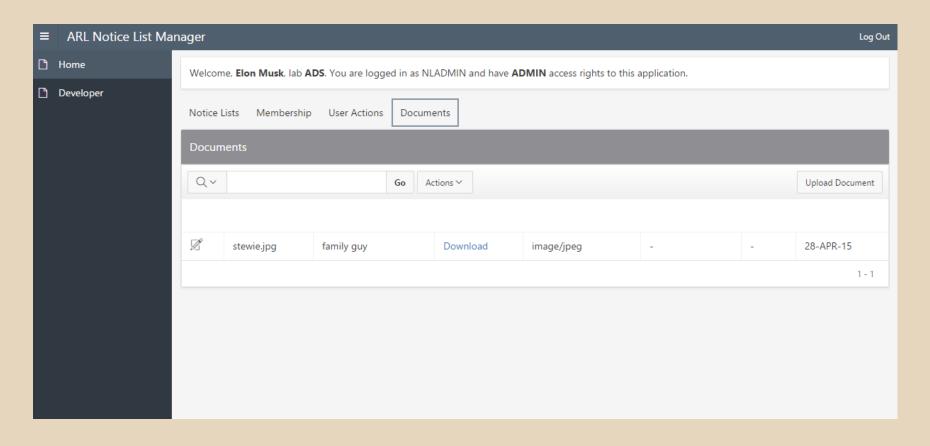
#### **User Action Tab**

- Remove user from all lists
- Clone user membership to another user
- ADMINs can manage any user, STANDARD can only manage users in their lab



#### **Documents Tab**

ADMIN/STANDARD/BASIC users can upload documents associated to their NL\_EMPLOYEE row



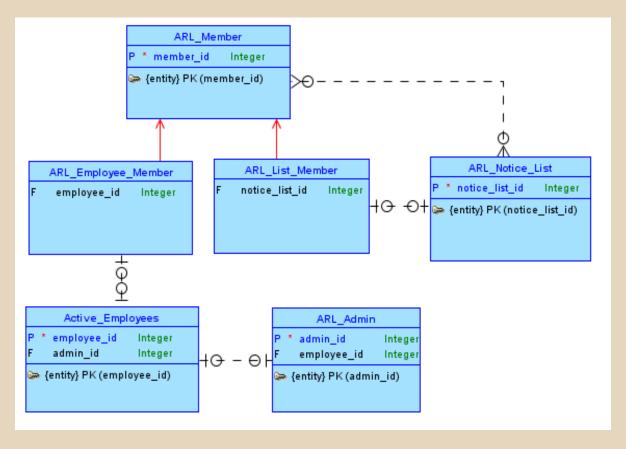
### **Known Bugs**

- MAJOR: Committing either of the shuttles clears the selection for the other shuttle. This appears to be an APEX issue as both of the submit processes are conditional on the specific button. Somehow during the commit, the page refresh is committing the other shuttles selection when it's in the intermediate step of just loading the full list of members (before the members are moved to the right side of the shuttle)
- MINOR: Cloning memberships doesn't filter out already existing memberships so you can get duplicate memberships
- MINOR: Region display selector does not properly draw column names for all tabs when SHOW\_ALL option is turned off. It will only show column names for the currently selected tab
- MINOR: Tree control is 'legacy' and doesn't support cascading LOVs. The only way to update it is to submit the page.
- MAJOR: Cascading LOVs can't reliably update the shuttle because the shuttle requires a secondary process to sort members into the right and left hand sides.

# **BACKUP SLIDES**

# Conceptual Model B

- Use inheritance to model "member" hierarchy
- Downside is it creates a new member table that is unnecessary and can be simplified down to the same thing as logical model A (explained in next slide)



# Logical Model B

- 1. Collapse the member hierarchy
- 2. Add junction table for M:N relationship
- 3. Notice that ARL\_Member can be coalesced into ARL\_NL2M and **type** can be made implicit by using employee\_id OR notice\_list\_id. This change brings us back to logical model A. (It doesn't seem like there are any downsides to doing this UNLESS we need to have views into the junction table to guarantee that the right id attribute is filled in.)

