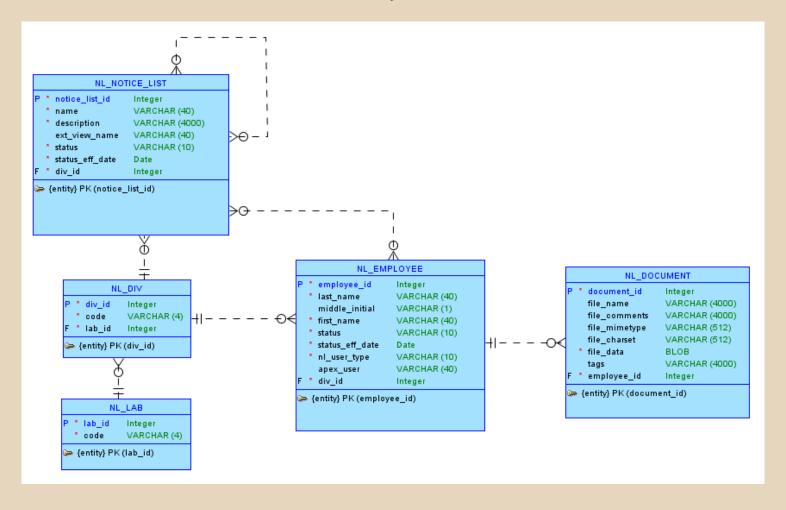
ARL Notice List Project

CS347 Final Presentation

Steven Ritchie, Andrew Nguyen

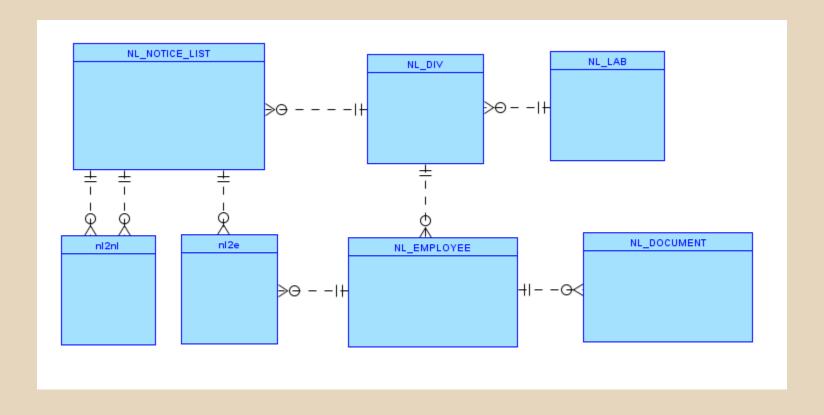
Conceptual Model

• NL_EMPLOYEE, NL_DIV, NL_LAB are read-only tables



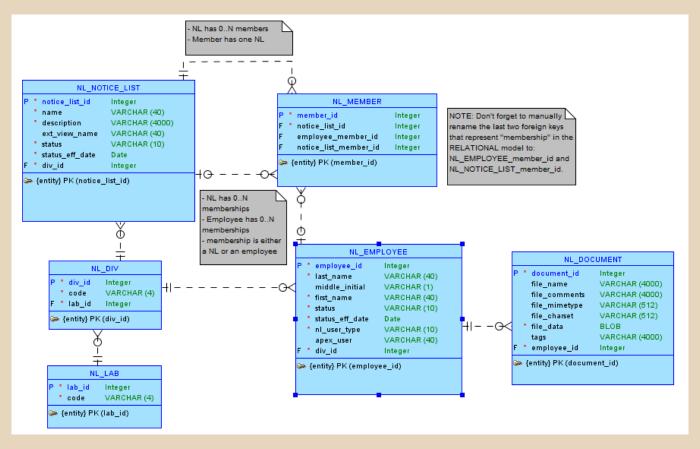
Logical Model (Intermediate)

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

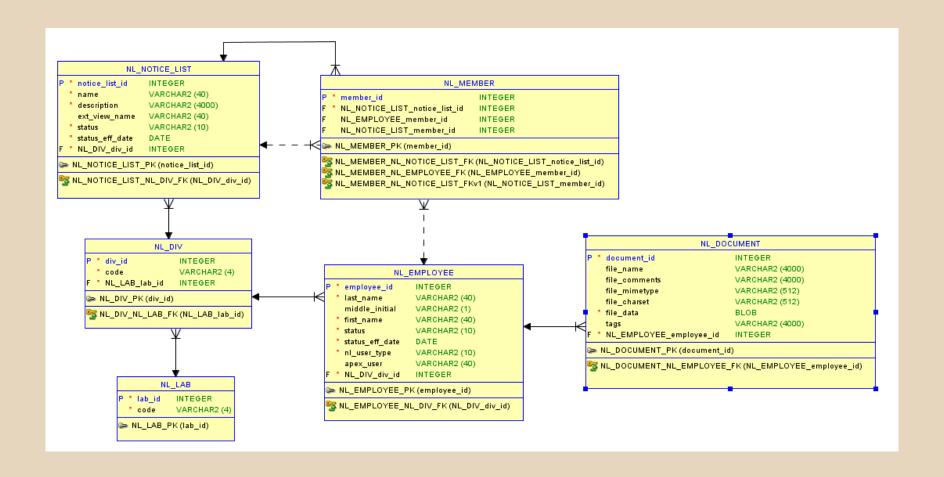


Logical Model (Final)

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

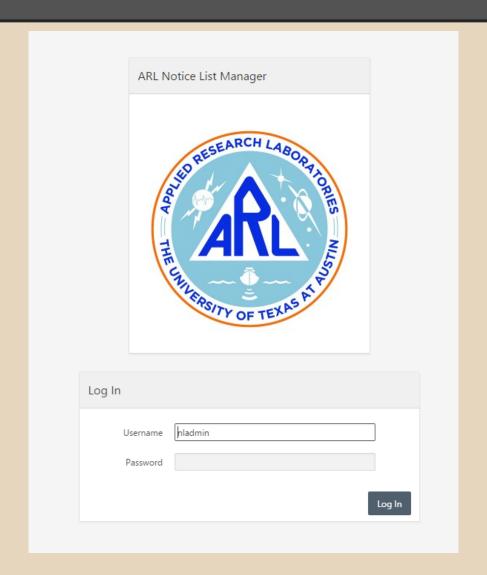
o URL

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

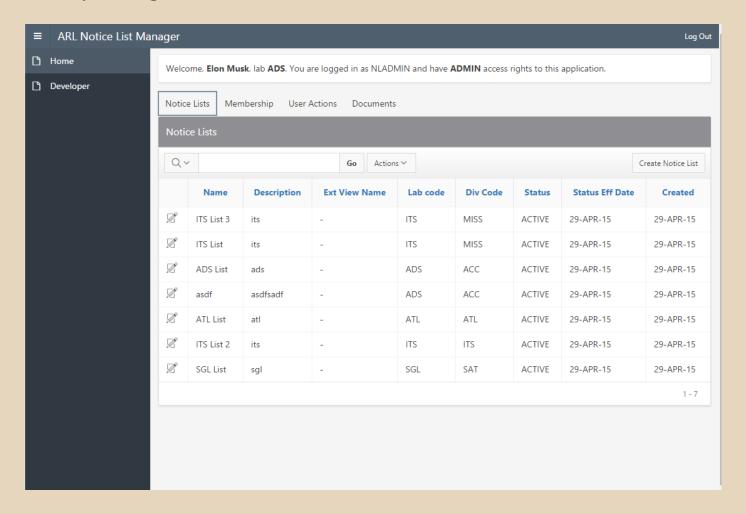
Login Page

 Uses APEX authentication and links APEX users to NL_EMPLOYEES



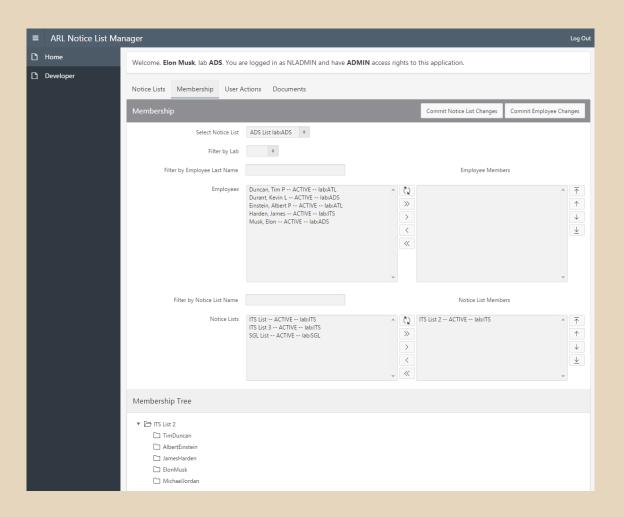
Notice List Tab

• ADMIN only, manage notice lists



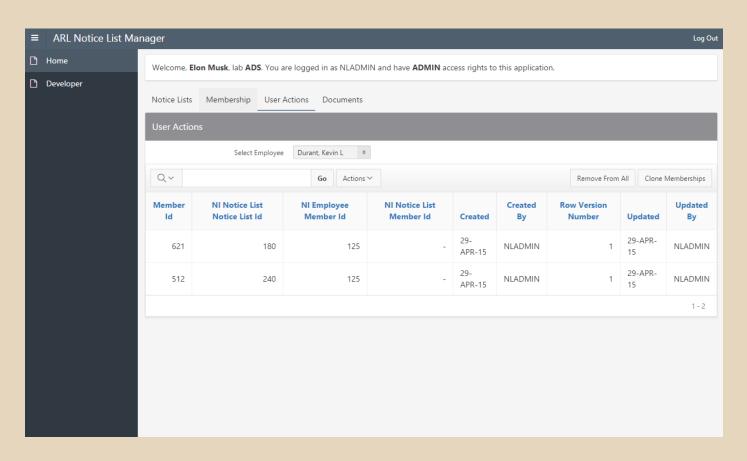
Members Tab

- 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



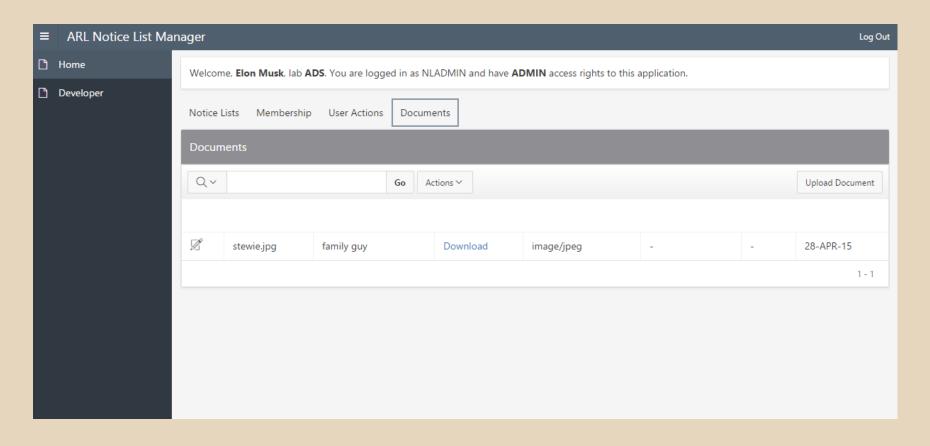
User Action Tab

- 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



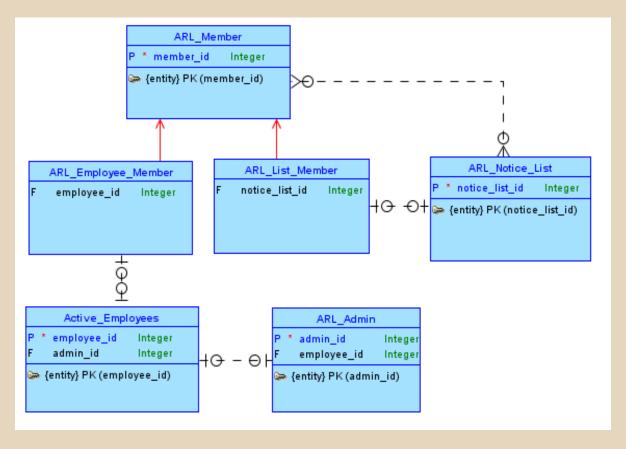
Known Bugs

- 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

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.)

