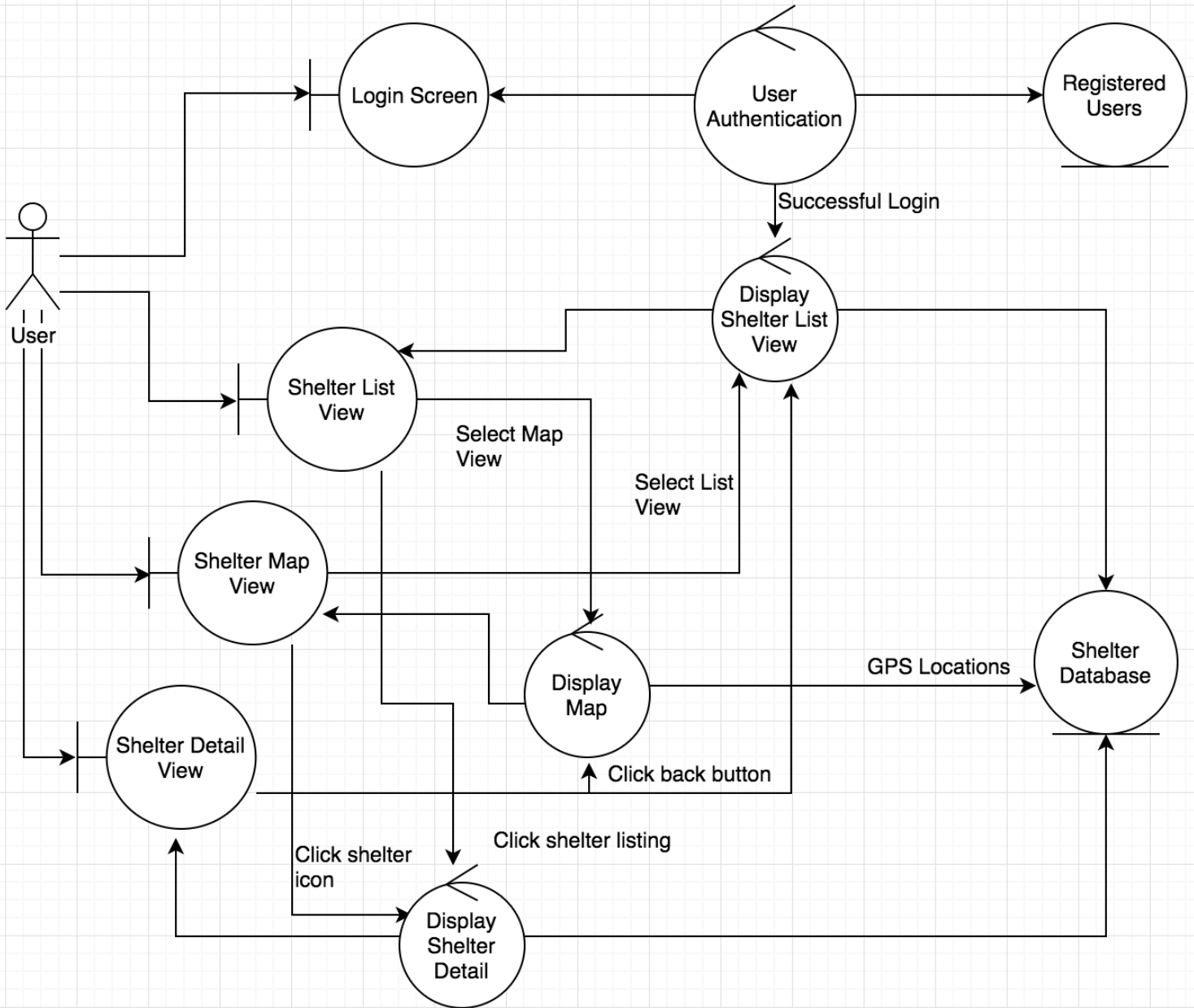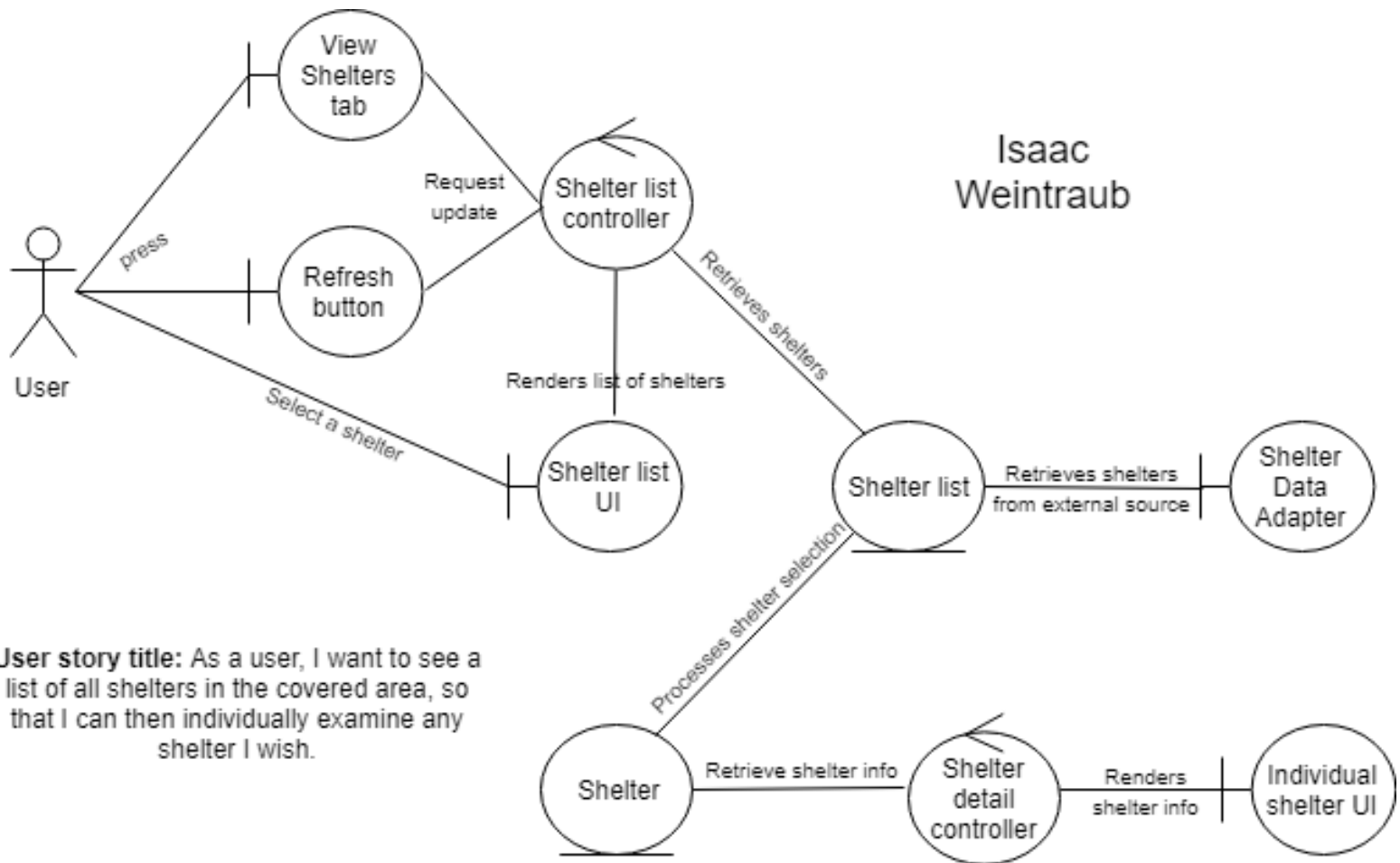Team 71 - Four Dog Night
Software Architecture
Isaac Weintraub, Manley Roberts,
Evan Mi, Jared Duncan

Jared Duncan

Login Screen

User
Authentication

Registered
Users

Successful Login

Display
Shelter List
View

User

Shelter List
View

Select Map
View

Select List
View

Shelter Map
View

Display
Map

Shelter
Database

GPS Locations

Shelter Detail
View

Click back button

Click shelter
icon

Click shelter listing

Display
Shelter
Detail

Isaac
Weintraub

View Shelters tab

press

Refresh button

Request update

Shelter list controller

Retrieves shelters

Renders list of shelters

User

Select a shelter

Shelter list UI

Shelter list

Retrieves shelters from external source

Shelter Data Adapter

Processes shelter selection
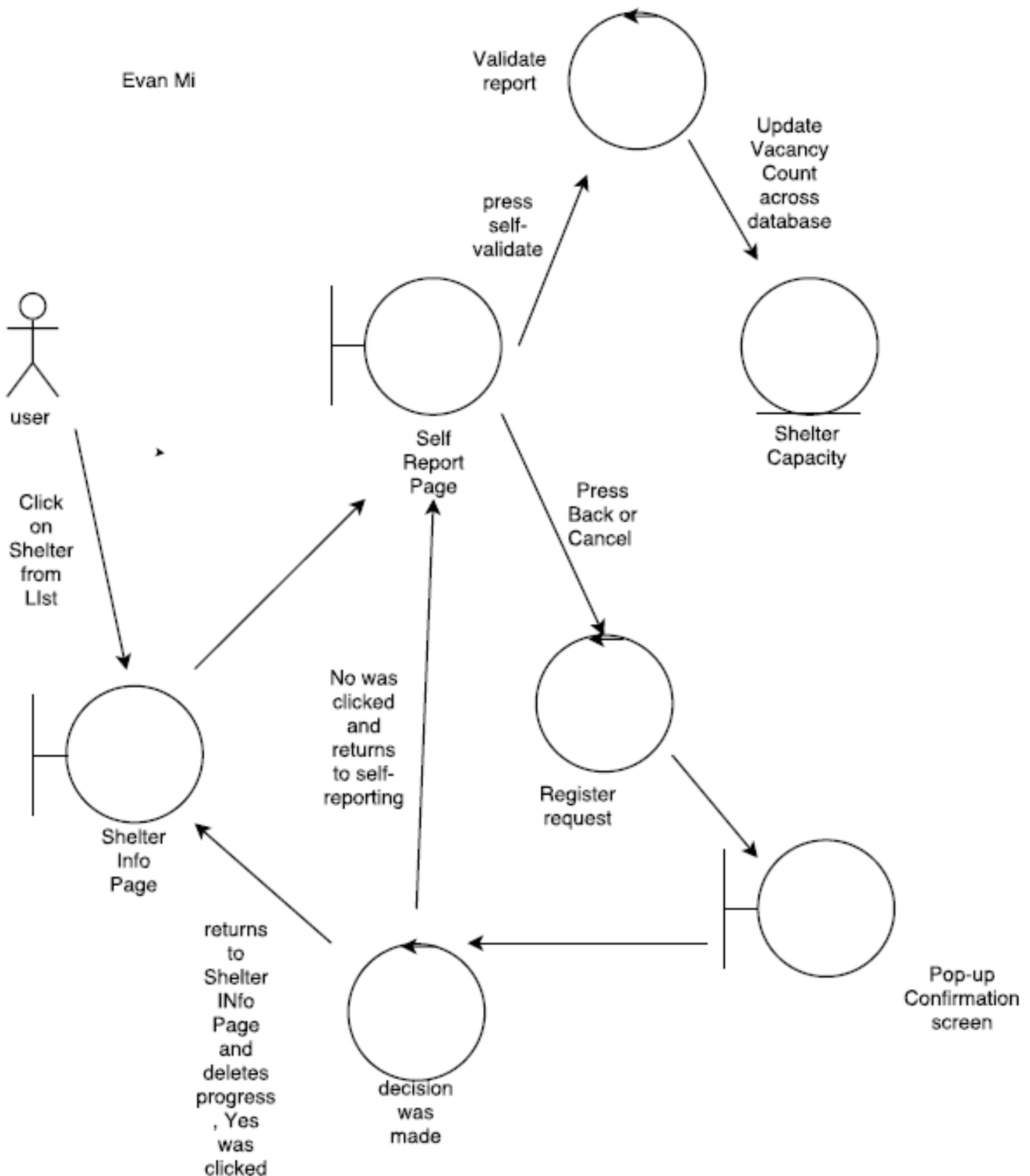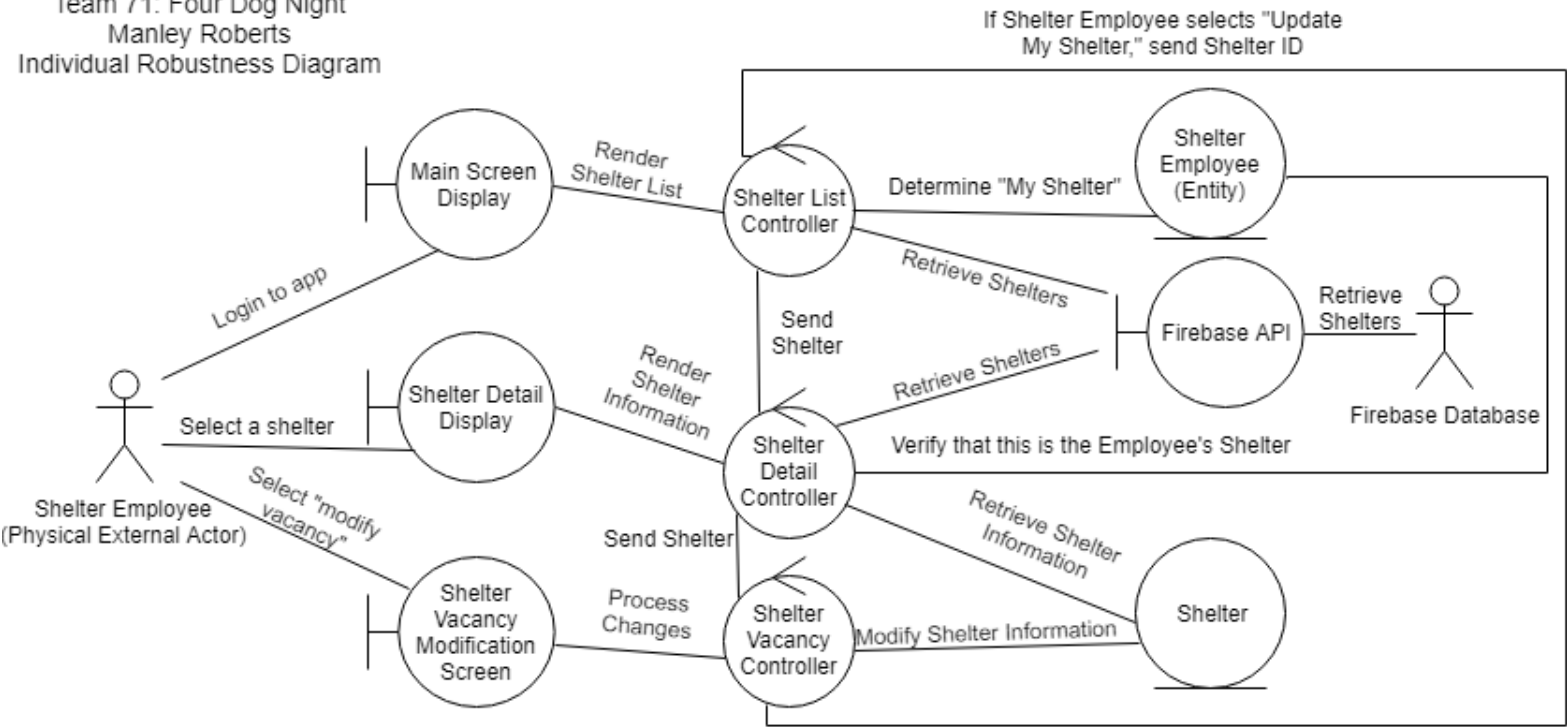
User story title: As a user, I want to see a list of all shelters in the covered area, so that I can then individually examine any shelter I wish.

Shelter

Retrieve shelter info

Shelter detail controller

Renders shelter info

Individual shelter UI

Evan Mi

Validate report

Update Vacancy Count across database

press self-validate

user

Shelter Capacity

Click on Shelter from LIst

Self Report Page

Press Back or Cancel

No was clicked and returns to self-reporting

Register request

Shelter Info Page

returns to Shelter INfo Page and deletes progress, Yes was clicked

decision was made

Pop-up Confirmation screen

Team 71: Four Dog Night
Manley Roberts
Individual Robustness Diagram

If Shelter Employee selects "Update My Shelter," send Shelter ID

Main Screen Display

Render Shelter List

Shelter List Controller

Determine "My Shelter"

Shelter Employee (Entity)

Login to app

Retrieve Shelters

Send Shelter

Firebase API

Retrieve Shelters

Firebase Database

Shelter Detail Display

Render Shelter Information

Retrieve Shelters

Select a shelter

Shelter Detail Controller

Verify that this is the Employee's Shelter

Shelter Employee (Physical External Actor)

Select "modify vacancy"

Retrieve Shelter Information

Send Shelter

Shelter Vacancy Modification Screen

Process Changes

Shelter Vacancy Controller

Modify Shelter Information

Shelter

User Story: As a shelter employee, I want to update availability at my shelter so that the app can more accurately express vacancy to users.