

Aeon Home Survey

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Document Objectives

The purpose of this document is to provide detailed documentation about the application Team Aeon is building for Aeon as our Prime Digital Academy Group Project. Included details below:

1. All features described, how the app works
2. Technology stack used (frameworks, libraries), including any third-party APIs/web services
3. Milestones and rough schedule
4. Assumptions made during the scoping process

Group/Client Project Document Objectives

The purpose of this document is to provide detailed documentation to Aeon ("The Client") that clearly defines the work that Prime Students Adam Biessener, Sam Fortin, Ryan Templin, Roxie Charchian, and Caleb Miskowiec ("The Company") will perform and the deliverables detailed within the scope of this project. By accepting this document the Client acknowledge their understanding and agreement to this scope of work. Any requirement which falls outside the specifications in this document will be considered "Out of Scope" and may require reprioritization or removal of other features to implement.

This document takes precedence over any other documentation provided regarding scope of work.

Application Overview

The Aeon Home Survey app is a full-stack web app that converts Aeon's offline home survey data of its properties and units into an online database, and stores that alongside survey input from Aeon residents to be exported for offline usage (or, as a stretch goal, viewed online). The main purpose of the web app is to allow Aeon staff to monitor completion of the home survey and support a door-to-door campaign by Aeon staff or volunteers to engage residents to complete the survey on a tablet-friendly view.

Data is fully anonymized; resident information is not stored and survey responses are tied to a property, not tied to any resident or unit.

Application Features

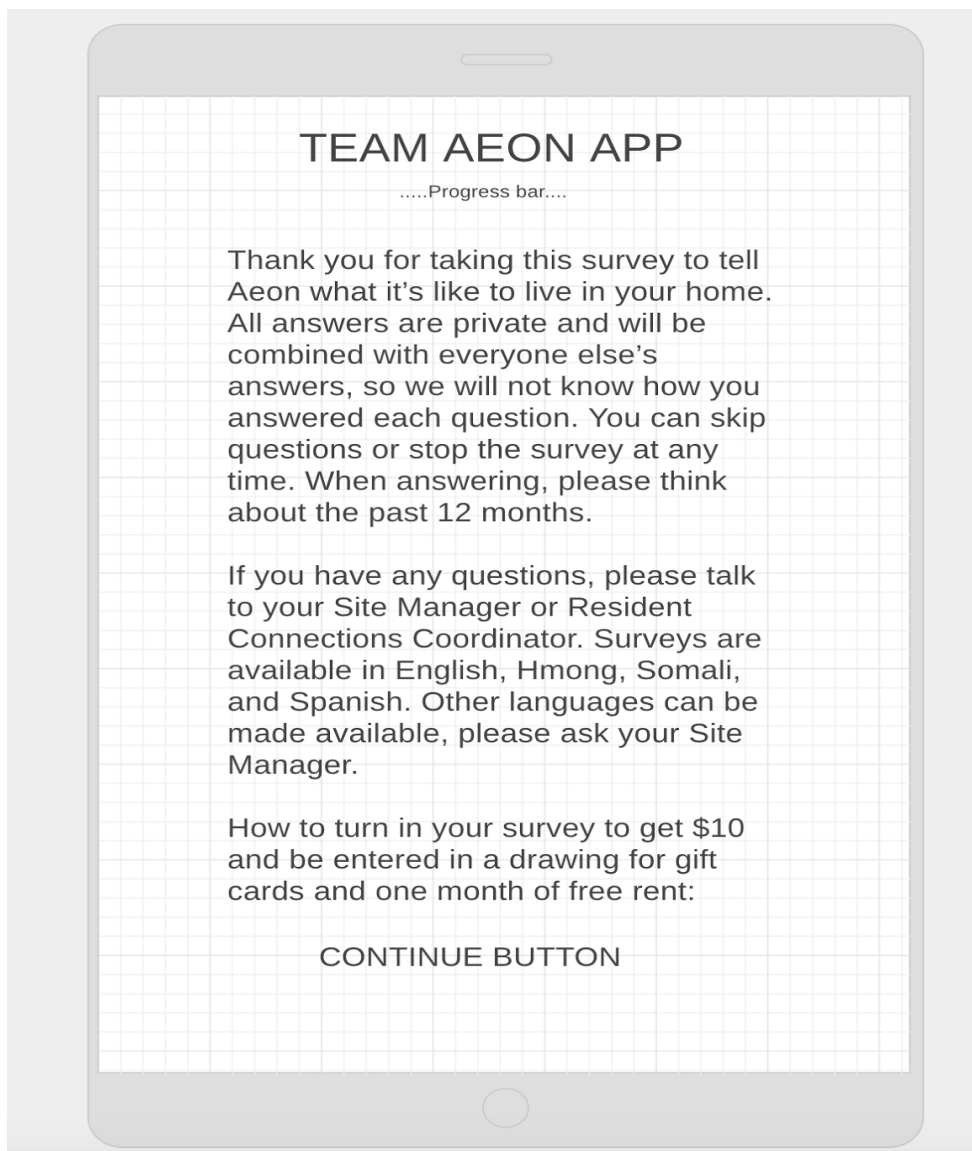
Survey Features

- The site manager or resident will select one of the four languages in which the survey is provided. Surveys in all languages have already been provided by Aeon. Additional translation review to be coordinated with Aeon and their vendor Global Language. Aeon staff or volunteers will also use this online survey page to manually enter paper surveys returned by residents.
- The site manager or resident will select the property for which the survey is being completed, and enter a unit number. Then the Begin Survey button can be selected to be taken to the survey.

The image shows a mobile application interface for the Aeon Annual Survey. The interface is displayed on a smartphone screen with a light gray grid background. At the top, there is a header bar with the text "Aeon Annual Survey" on the left and a link "admin login" on the right. Below the header, there are four language selection buttons: "English", "Hmoob", "آف صومالي", and "Espanol". Further down, there are two input fields: a dropdown menu labeled "Property" and a text field labeled "Unit #". At the bottom, there is a large "BEGIN SURVEY" button.

- The survey is broken up into 8 views:
 - Survey view 1, introduction to survey
 - Survey view 2, questions 1-5
 - Survey view 3, questions 6-12
 - Survey view 4, questions 13-20
 - Survey view 5, text input questions 21 and 22
 - Survey view 6, questions 23-27
 - Survey view 7, resident review of all responses and submit
 - Survey view 8, thank you and further steps

Survey View 1 - The first view contains an intro to the survey with instructions for completion. Will also include a disclaimer regarding the \$10 incentive.



Survey views 2-6

- Each view has a progress bar showing the residents progress.
- At the bottom of each view, “next”, “previous”, and “cancel” buttons allow the resident to navigate the survey. The cancel button will allow the them to end and exit the survey, bringing them back to the initial intro page. A confirmation dialog will ask the resident if they are sure they want to cancel the survey.
- Every page asking for inputs will have an “instructions” button (using the appropriate word in the selected language) which will open a dialog with simple instructions that are the same for every page.
- Open-ended questions will have a text box for resident input.
- All views will have large text and buttons for accessibility.
- A “Complete Survey” button on the last view brings the user to a display of a final review of their answers.

The image shows a mobile app interface for 'Team Aeon App'. At the top, there is a title 'Team Aeon App' and a placeholder for a progress bar labeled '...Progress Bar....'. Below this is a button labeled 'Instructions Button'. The survey consists of two questions:

1. This is an example of question one?
Below the question are five radio button options, each represented by a small square of increasing darkness from left to right.
2. This is an example of an open ended question?
Below the question is a large text input box.

At the bottom of the screen, there are three buttons: 'Prev', 'CANCEL', and 'Next'.

Survey view 7

- On the review page, a “submit” button completes the survey, or the resident can click any answer they wish to change to be brought to the appropriate previous page.

Team Aeon App

...Progress Bar....

Review Your Results

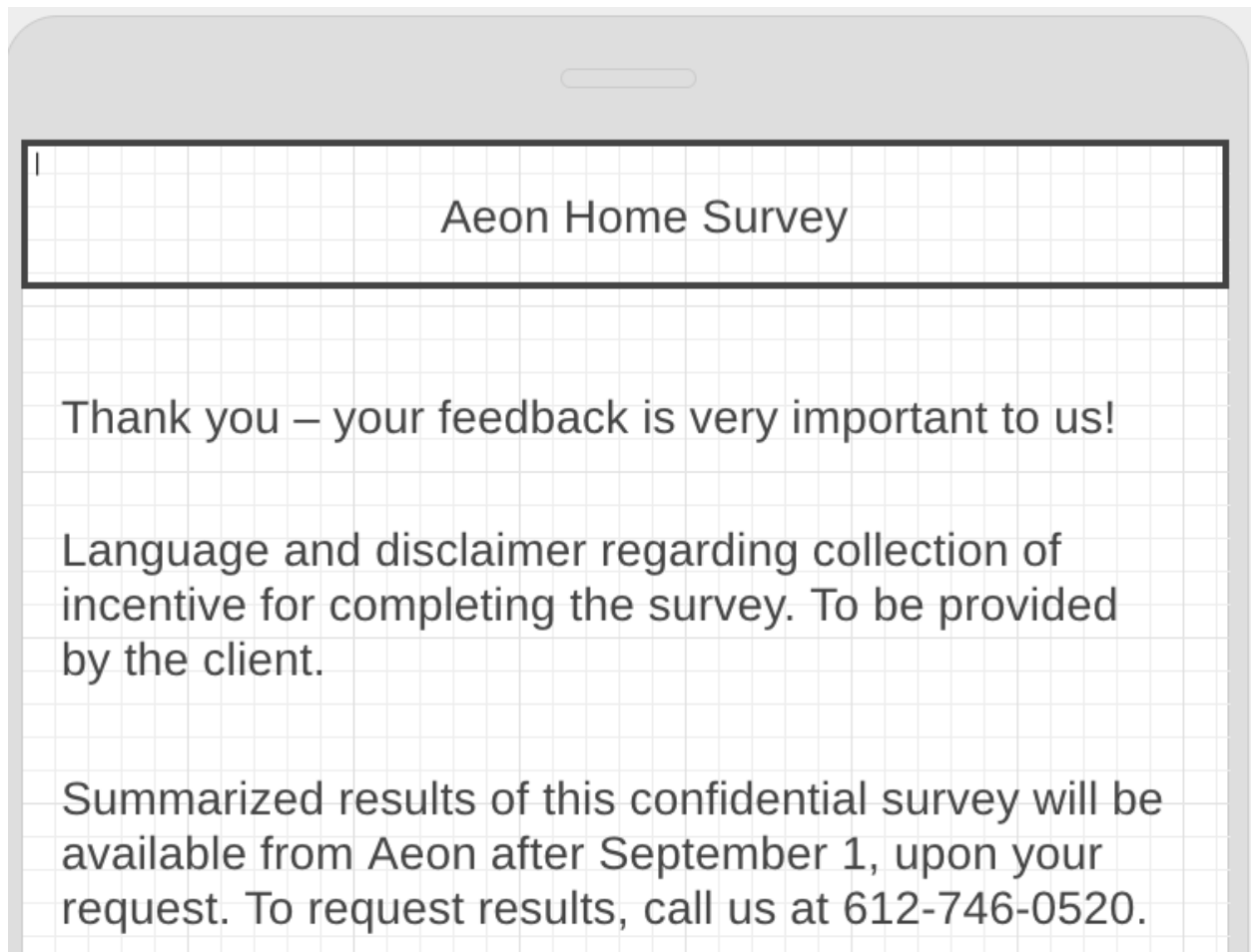
Click Answer to Change

- I feel safe in my apartment unit. ☐
- I feel safe in the public areas inside my building (outside my apartment unit). ☐
- I feel safe in outdoor areas near my building. ☒
- I feel safe in the neighborhood in which I live. ☐
- I help take care of my building. ☐
- I report problems in my apartment unit to my site manager. ☐
- I report problems in my building to my site manager or the police. ☐
- I avoid talking to other people in my building. ☐
- I help my neighbors in my building. ☐

Prev CANCEL Submit

Survey view 8

- Survey confirmation text thanks the resident, gives any further instructions, and instructs them on how to obtain their reward.



Aeon Home Survey

Thank you – your feedback is very important to us!

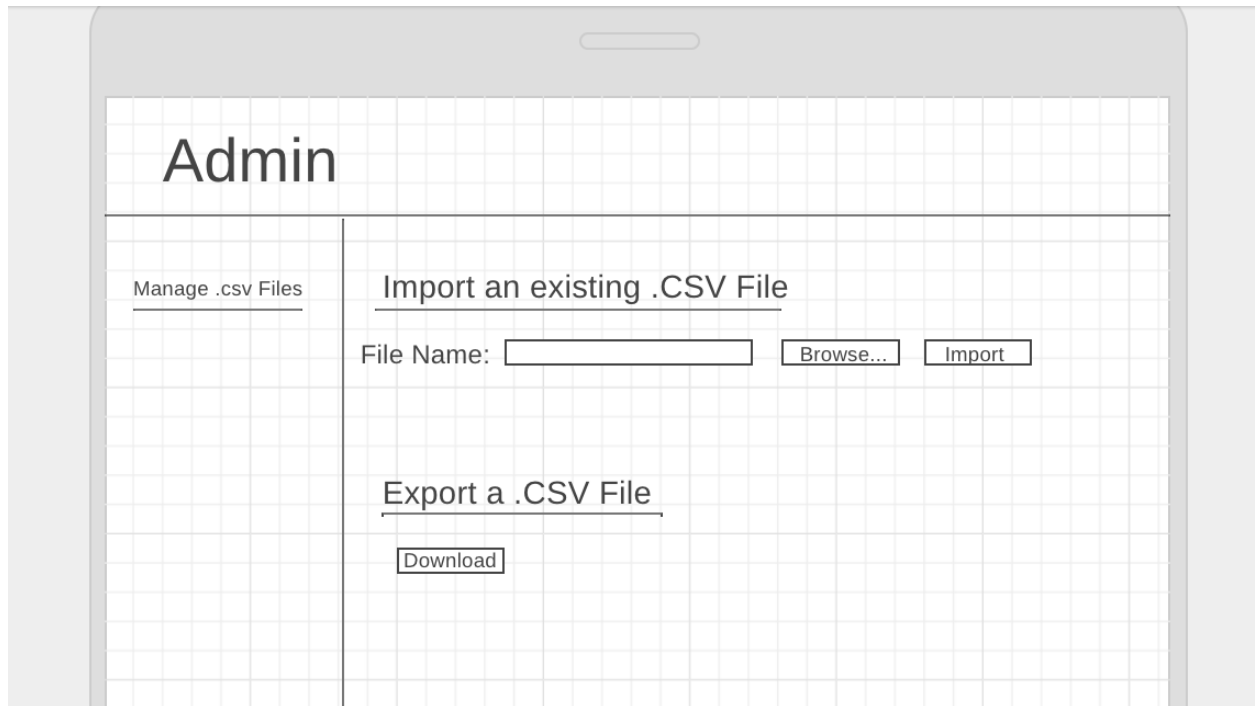
Language and disclaimer regarding collection of incentive for completing the survey. To be provided by the client.

Summarized results of this confidential survey will be available from Aeon after September 1, upon your request. To request results, call us at 612-746-0520.

Administrator Functions

Administrators can login and execute the following:

- Upload property data .csv files
- Export survey responses to a .csv
- Add roles (site manager, administrator) to other users

A mockup of an administrator interface. The main heading is 'Admin'. On the left, there is a sidebar with a link 'Manage .csv Files'. The main content area is divided into two sections. The top section is titled 'Import an existing .CSV File' and contains a 'File Name:' label, a text input field, a 'Browse...' button, and an 'Import' button. The bottom section is titled 'Export a .CSV File' and contains a 'Download' button. The entire interface is set against a light gray grid background.

Admin

Manage .csv Files

Import an existing .CSV File

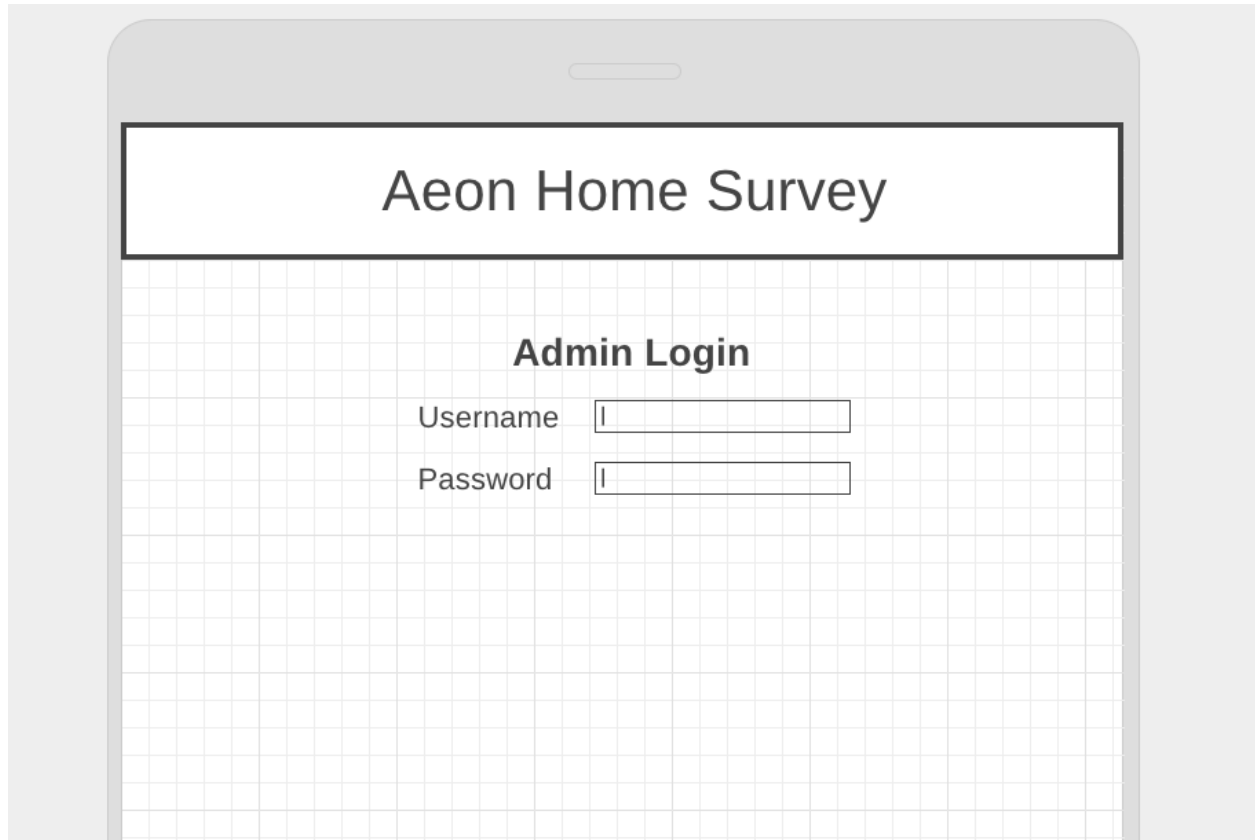
File Name:

Export a .CSV File

This view will have additional capabilities if stretch goals are completed (see below).

Authentication - Basic

Users must register with an @aeonmn.org email address (and confirm by clicking a link from a confirmation email). Administrators must assign privileges to users before they can access the app.



The image shows a mobile application interface for 'Aeon Home Survey'. At the top, there is a header box with the title 'Aeon Home Survey'. Below this, the screen displays an 'Admin Login' section. This section includes two input fields: 'Username' and 'Password', each preceded by its respective label. The background of the login area features a light gray grid pattern. The entire interface is framed within a gray border that mimics a smartphone screen.

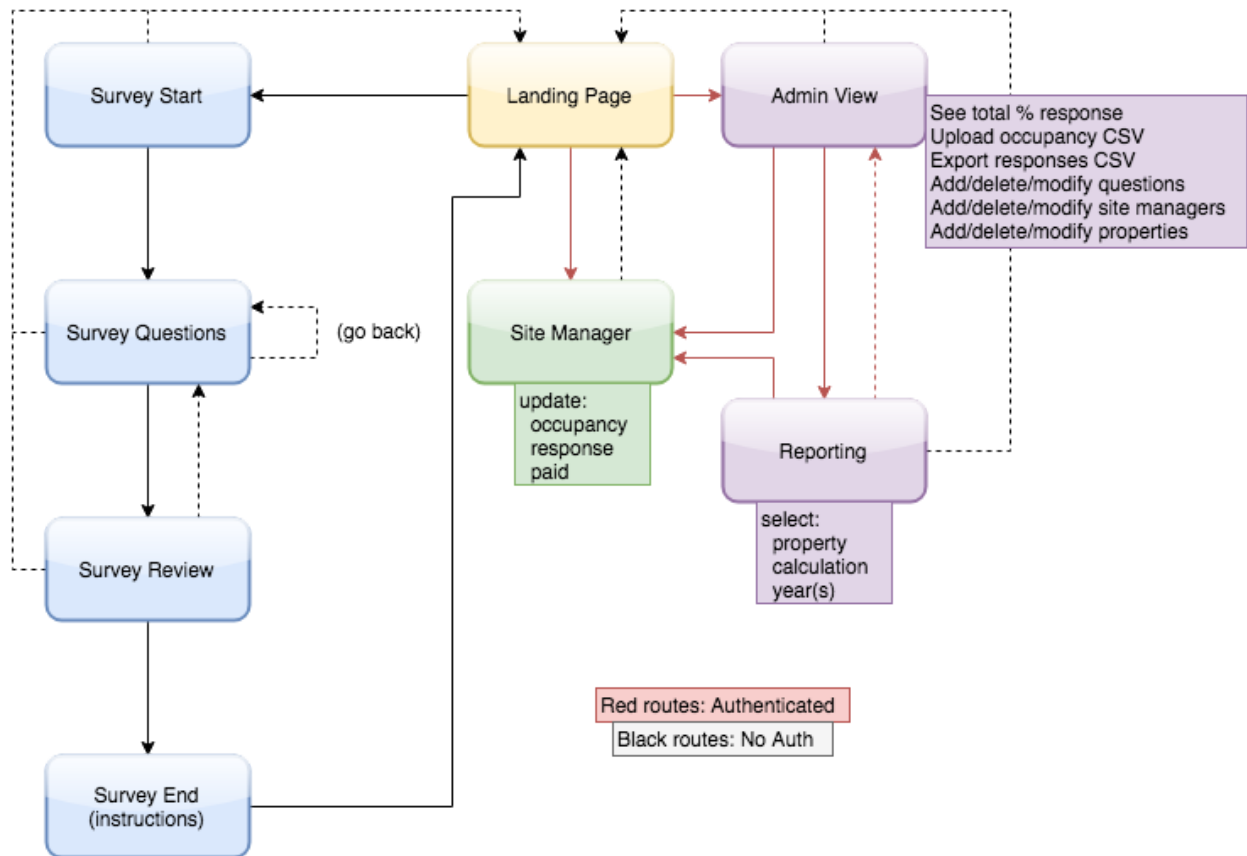
Aeon Home Survey

Admin Login

Username

Password

User Flow



Project Milestones and Schedule

| Milestone (feature) | Estimated Due Date |
|---|--------------------|
| Authentication | Friday Sep 29 |
| Property Data Import | Friday Sep 29 |
| Display survey in English | Friday Sep 29 |
| Users can complete survey and store responses | Monday Oct 3 |
| Display survey in remaining 3 languages | Tuesday Oct 4 |
| Export survey data to a CSV | Tuesday Oct 4 |
| Beautification - MVP Complete | Thursday Oct 5 |

Browsers

Application will fully support browsers listed below. All browsers or versions not listed below are considered out of scope.

| Browser Name | Version |
|---------------------------|---------|
| Safari (mobile + desktop) | 11+ |
| Chrome (mobile + desktop) | 60+ |

Assumptions

While completing this estimate the following assumptions were made.

- Aeon will provide its property/occupancy data in a .csv-formatted file.
- Aeon and their vendor, Global Language, will assist with additional translation questions.

Technologies

- Node
- Express
- AngularJS
- PostgreSQL
- AngularJS Material
- Heroku
- PapaParse
- Nodemailer

Source Code

All source code produced by The Company for this project will be provided to The Client via Github. The Client is free to work with other service providers on future modifications to the project utilizing the provided source code unless otherwise stipulated.

Stretch Goals

Additional features to be created, in priority order, if time allows.

Site Manager Functions

Site managers can log in to a manager view where they will first select the property from a list of properties they are authorized for.

Once the property has been selected, the view populates with the property's unit information.

There, site managers can view whether the survey has been completed, whether the unit is occupied, and if the resident has received their \$10 incentive. They may also check off if the incentive payment for a unit has been paid out.

[illegible]

Additional Administrator Functions

Upon login, administrators can execute the following:

- Add/delete/modify survey questions
- Add/delete/modify site managers
- Add/delete/modify properties
- Access site manager views with same capabilities they have for each site

This view also displays a percentage showing how many units have completed surveys total across all properties.

Data Reporting & Analysis

Administrators will have access to an additional view with four controls:

- Property - select property (or All Properties) from dropdown
- Calculation (the report to generate - this is a specific enumerated list of items, as each will need to be hard-coded. TBD)
- Date Range (year or years to include in the dataset)
- Create Report (actually run the report and display the result)

This view will also show the data in a visual format - appropriate graph or similar for the calculation.

Microsoft Office 365 Integration

- Users can use existing Office 365 accounts to login to the application

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