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Design Document

For the MyAutoHome website

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XYZ HOME AUTOMATION

(SOFTENG 350 - UNIVERSITY OF AUCKLAND)
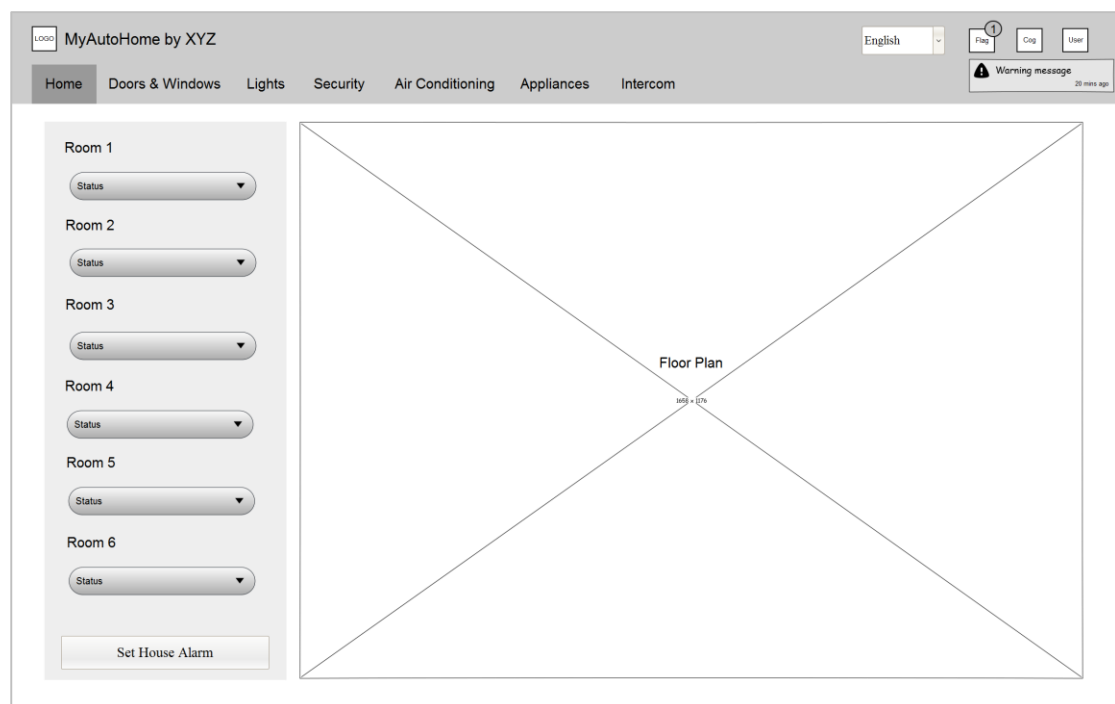
Wireframe Walkthrough

Persona

Julie Miyazaki is a woman in her forties who lives with her husband Mr. Wright and her two children, Sandy and Patrick Wright. She works full-time as an account manager for ASB Bank in Auckland so she prefers to be in informed and in control of what is happening to her home and kids at all times, despite her busy schedule.
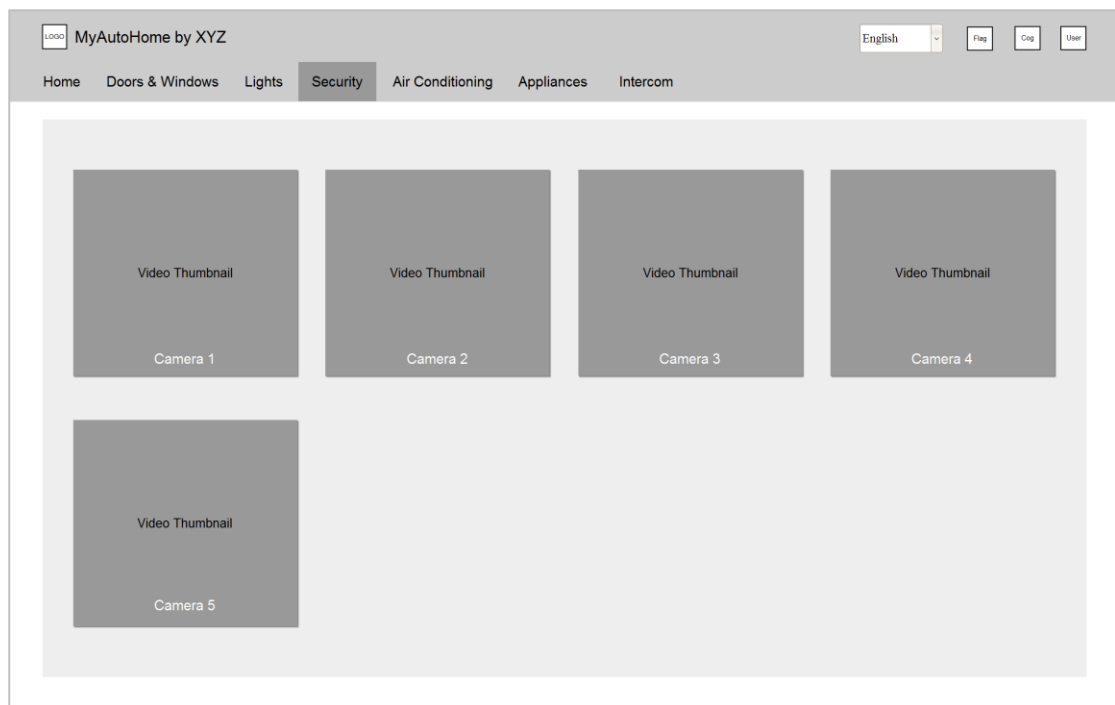
Scenario

Julie is on a vacation with her family, and decides to check up on the state of the house with her laptop to make sure that nothing is wrong. She notices that there is a new notification informing her about the dishwasher malfunctioning, and from the security camera she sees that there is water leaking out. She calls a technician over to fix the leak and uses the MyAutoHome system to let him in.
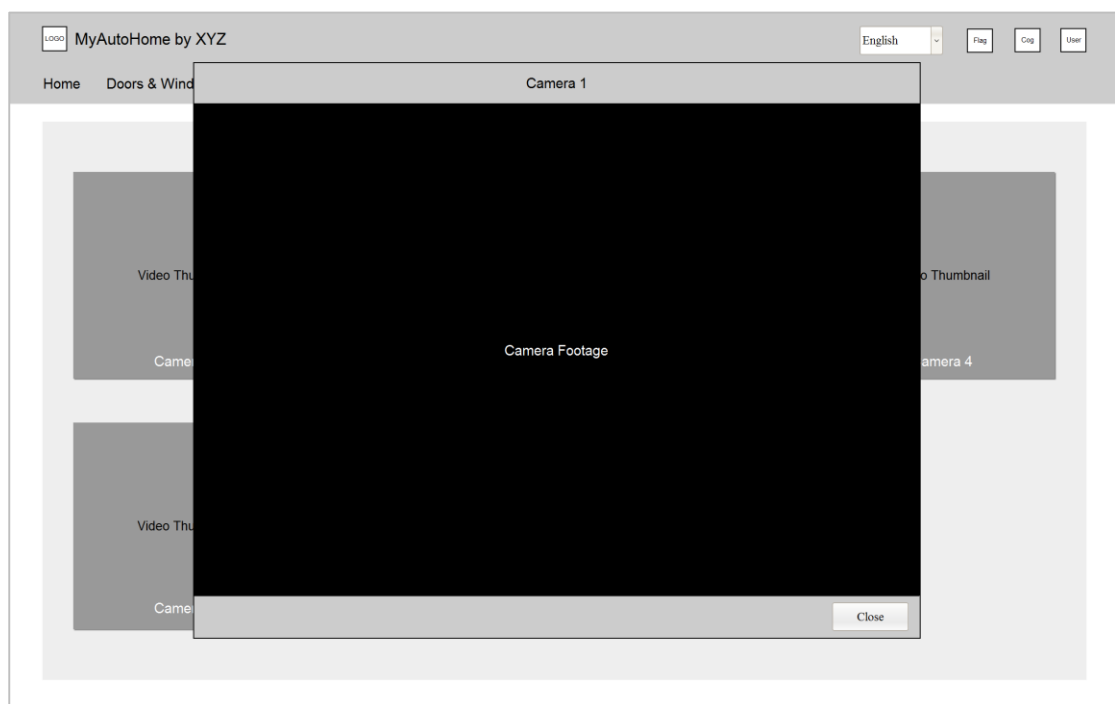
Home Screen with notification

The main window shows the status and layout of the house which allows users to see which rooms have activity and which rooms are not being used. This may be useful when the user would like to set the alarm in the house, they could choose to set the alarm only after all rooms are secure, hence the 'Set Alarm' button at the bottom of the panel. The notification flag icon above has new notification, and displays the message once it is clicked.
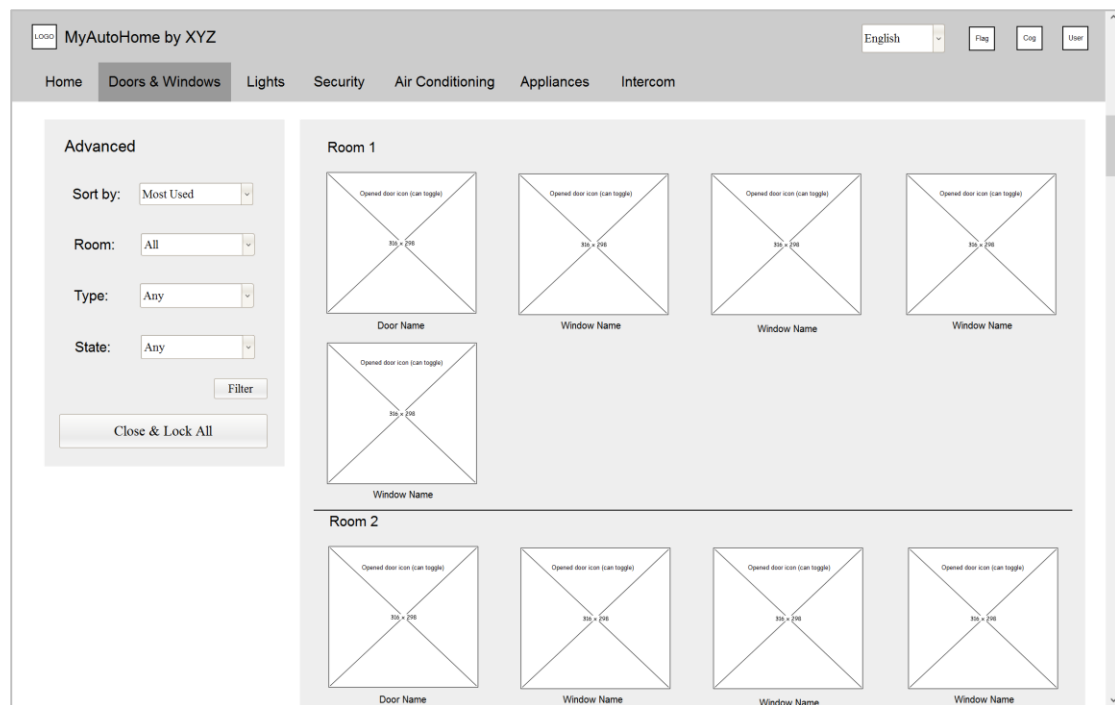
Security page

Video thumbnails are ordered in a grid fashion which allows users to see all camera and activities around the house in one go. Otherwise, footage can be enlarged when clicked if users want to get a closer look (shown below).

Security page with enlarged footage

Doors & Windows page

Starting from the left, a panel containing a filter form allows users to quickly find the door or window they want, and a button for quickly closing and locking all doors & windows. In the larger panel on the right, the doors and windows in each room are displayed with icons representing their respective states, for example, an open door for an unlocked door, and an open window for an open window. They are grouped according to rooms, and clicking these will toggle the states between open and close (lock and unlock).

Colour Scheme

Light Blue

Website Background

Hex: **#CCE7F0**   R: **204**   G: **231**   B: **240**

Bootstrap Default Light Grey

Panel Background

Hex: **#F5F5F5**   R: **245**   G: **245**   B: **245**

Aside from the red and green code used to display the status of each room, the MyAutoHome website takes on a monochromatic colour scheme with blue being the dominant colour. The whole website uses light colours to soften the interface, and to bring out the dark grey and black text used in the foreground. The light blue was chosen to complement the light grey so that the website does not seem too colourless. The light grey was bootstrap's 'navbar-default' and 'panel-default' background colours, they fit well with the design and overall 'feel' that I had wanted.

Layout Scheme

Most of lines and borders for the top navigation bar and panels had default bootstrap lines and borders. The placements of panels are the way they are so that the screen does not look cluttered and the objective of the page is clear. I chose to use a one-coloured background so that the users' attention is not taken off the subject of each page, this also allows the panels to look like they are floating in the screen space. Videos and door icons are placed in a grid so they are easy distinguish and is organised for the user to find. Icons are placed at the top-right corner of the screen so it is easy for users to find due to familiarity. All these placements of elements achieve the graphical 'feel' I had wanted the website to have.

Resources Used

External Tools

Bootstrap:

- http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css
- https://ajax.googleapis.com/ajax/libs/jquery/1.12.2/jquery.min.js
- http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js

Font awesome icons:

- http://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.4.0/css/font-awesome.min.css

Wireframes were created using Pencil.

Images

Floor plan:

- http://www.peppertreecourt.com/images/PTC_P2_1256_FloorPlan.gif

Camera "Footage" Images:

- Tradesman: http://www.racq.com.au/-/media/racq/image/herobanner/homeassistance/racq-home-assistance-tradesman-ipad-van-1410x500.ashx
- Living: http://photos2.spareroom.co.uk/images/flatshare/listings/large/20/91/2091469.jpg
- Kitchen: http://www.neuhausre.com/wp-content/uploads/3-full.jpg
- Garage: http://randomwallpapers.net/dark-garage-bmw-1920x1080-wallpaper529603.jpg
- Office: http://rgphoto.co.uk/images/ped2010/960_150110_Dark%20Office.jpg

Other

- Edits to the kitchen image was made to simulate the scenario.
- Door and window icons in the Doors & windows page were made by me in Paint.
- Website Logo made by me.