

Professional Apps

by Dawn Grow
Art337R | Kyle Iman

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Introduction

Professional Apps Overview

Develop a system of three integrated apps for an existing profession or life situation. Each app will target one of three devices (smartphone, tablet, and desktop browser). This assignment explores how people use technology to work together and how to design interface systems that can be applied to different platforms.

This project will integrate three main interface platforms: a smartphone interface, a tablet interface (target user must be different from the smartphone app user), and a web based interface (target user should be different from the other two users). Begin by identifying existing professions and life situations where smartphone technology could add substantial value. The final project will include a presentation of your app design and a comprehensive process book.

Project Steps

- Make sure to follow all the project steps in order to pass the project.
- The steps may be rearranged or repeated as your individual project requires.

Profession App Design

- Design for smart phone, tablet, and desktop screen sizes
- Design multiple screens for each environment to demonstrate functionality

Presentation

- Keep your presentation to a seven minute time limit
- Highlight the goals you established for your calculator app
- Discuss how user tests affected your final app design
- Present your final calculator app

Process book

(print, pdf, website)

- Cover
- Table of Contents
- Summary Section (“five minute presentation” version)
- Comprehensive Section (include research, design exploration, usability testing, refinements, etc.)

To be successful app:

- Needs to be adaptable
- Simple, uncluttered
- Easy to navigate
- Easy to understand
- Needs to be private

Exploration: Technology Research

Computer

A computer is a general purpose device that can be programmed to carry out a set of arithmetic or logical operations automatically. Since a sequence of operations can be readily changed, the computer can solve more than one kind of problem. By 1938 the United States Navy had developed an electromechanical analog computer small enough to use aboard a submarine. With the continued miniaturization of computing resources, and advancements in portable battery life, portable computers grew in popularity in the 2000s.



Tablet

A tablet computer is a mobile computer with a touchscreen display, circuitry and battery in a single unit. Tablets come equipped with sensors, including cameras, a microphone and an accelerometer, and the touchscreen display uses finger or stylus gestures substituting for the use of computer mouse and keyboard. Tablet devices became popular in 2010.

Smartphone

A smartphone (or smart phone) is a mobile phone with an advanced operating system.[1][2][3] Smartphones typically include the features of a phone with those of other popular mobile devices, such as personal digital assistant, media player and GPS navigation unit. Most have a touchscreen interface and can run third-party apps, and are camera phones. In 2007, Apple Inc. introduced the iPhone, one of the first mobile phones to use a multi-touch interface.



Exploration: Technology Research

Features

Computer, tablets and smartphones all have the ability to do all the following things:

- Internet
- email
- social media
- camera
- video
- photos
- weather
- games
- ebook reader
- cookbooks
- media storage
- calendar
- information
- writing source
- calculator
- music
- drawing/art
- documents
- timer
- map
- shopping
- communication
- contacts (friends)
- voice recording
- reminders
- stocks
- news



Tablets and smartphones have a few features that the desktop or laptop doesn't have. For starters, size makes a difference in what it is capable of. They also have:

- alarm
- light
- GPS
- text
- odometer (car doesn't work)
- compass
- talk (phone)
- touchscreen
- more portable

Exploration: Computer App Research

Samples of computer applications.

I already have thoughts and designs running through my mind to use. I chose these images for the color, shape and all around appeal. These could any be altered and revised in form to create an app for a subject.



Exploration: Tablet App Research

Samples of tablet applications.

There are so many different types; kindle, ipad and many various android styles. Each of these have a crisp bold design that could appeal to the user.



Exploration: Smartphone App Research

Samples of smartphone applications.

So many styles to choose from, I will be focusing on an iPhone for the smartphone since that is what I have. Here are some random images I found on Google that appealed to me for color and style.

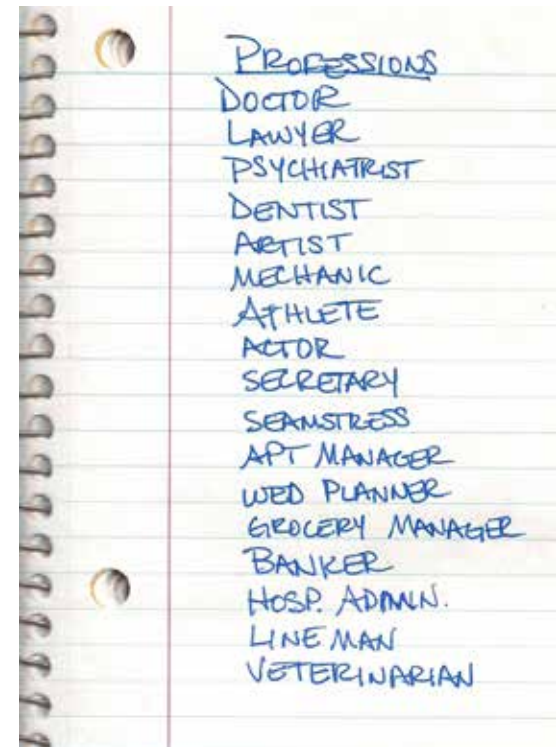


Exploration: Profession Research

Professional App Ideas

Child with diabetes	Doctor, parents, child
Someone w/ genetic disorder	Doctor, parents, child
Drug addict	Addict, therapist, doctor/parole officer
Physical therapy	Doctor, patient, therapist
** Wedding planner	Wedding planner, bride, florist/photographer/baker
Artist	Artist, gallery owner, buyer
Movie crew	Producer, director, actor
Dentist	Dentist, secretary, patient
Psychiatrist	Psychiatrist, secretary, patient
Photography	Photographer, client, printer
** Realtor	Realtor, buyer, seller
*** Apartment manager	Apartment manager, renter, maintenance man
Florist	Florist, consumer, wholesale supplier
Prescriptions	Doctor, pharmacist, patient
Veterinarian	Veterinarian, assistant, pet owner
Mechanic	Mechanic, customer, supplier
Shipping	FedEx/UPS, warehouse/main office, client

The coordinating list is a list of random professions that could use a computer, tablet or smartphone app with the associated people that would use them together. These are just a few of the ones that could be named. As I looked them over, I ruled out those that were medically inclined since it is not my area of expertise.



Topic Choice: Apartment Management

I chose Apartment Management for my project. I worked for a senior center that manages low income senior apartments and still work there a few days a week. It was my job to recertify the tenants for their yearly government certify. I am familiar with this area and do not see this as an area that has been overdone with apps. With the way technology is going, this would be an area in the future that would require something like this.

Granted, each of these should be accessed via any device but for the sake of this project, we will assume that the manager is using the computer, the maintenance person will be using the tablet and the tenant will be using the smartphone.



Exploration: Profession Research

Apartment Manager

Typical duties expected of a property manager include finding/evicting and generally dealing with tenants and coordinating with the owner's wishes. Such arrangements may require the property manager to collect rents, and pay necessary expenses and taxes, making periodic reports to the owner, or the owner may simply delegate specific tasks and deal with others directly.

A property manager may arrange for a wide variety of services, as may be requested by the owner of the property, for a fee. Where a dwelling (vacation home, second home) is only periodically occupied, the property manager might arrange for heightened security monitoring, house-sitting, storage and shipping of goods, and other local sub-contracting necessary to make the property comfortable when the owner is in residence (utilities, systems operating, supplies and staff on hand, etc.). Property management can also include commercial properties where the property manager may operate the business, as well as managing the property. Some jurisdictions may require a property manager to be licensed for the profession.

Maintenance, repair, and operations

Generally speaking, there are three types of maintenance:

Preventive maintenance, where equipment is maintained before break down occurs. This type of maintenance has many different variations and is subject of various researches to determine best and most efficient way to maintain equipment. Recent studies have shown that Preventive maintenance is effective in preventing age related failures of the equipment. For random failure patterns which amount to 80% of the failure patterns, condition monitoring proves to be effective.

Operational maintenance, where equipment is maintained in using.

Corrective maintenance, where equipment is maintained after break down. This maintenance is often most expensive because worn equipment can damage other parts and cause multiple damages.

Tenant

Renting, also known as hiring or letting, is an agreement where a payment is made for the temporary use of a good, service or property owned by another. A gross lease is when the tenant pays a flat rental amount and the landlord pays for all property charges regularly incurred by the ownership.

There are many possible reasons for renting instead of buying, for example:

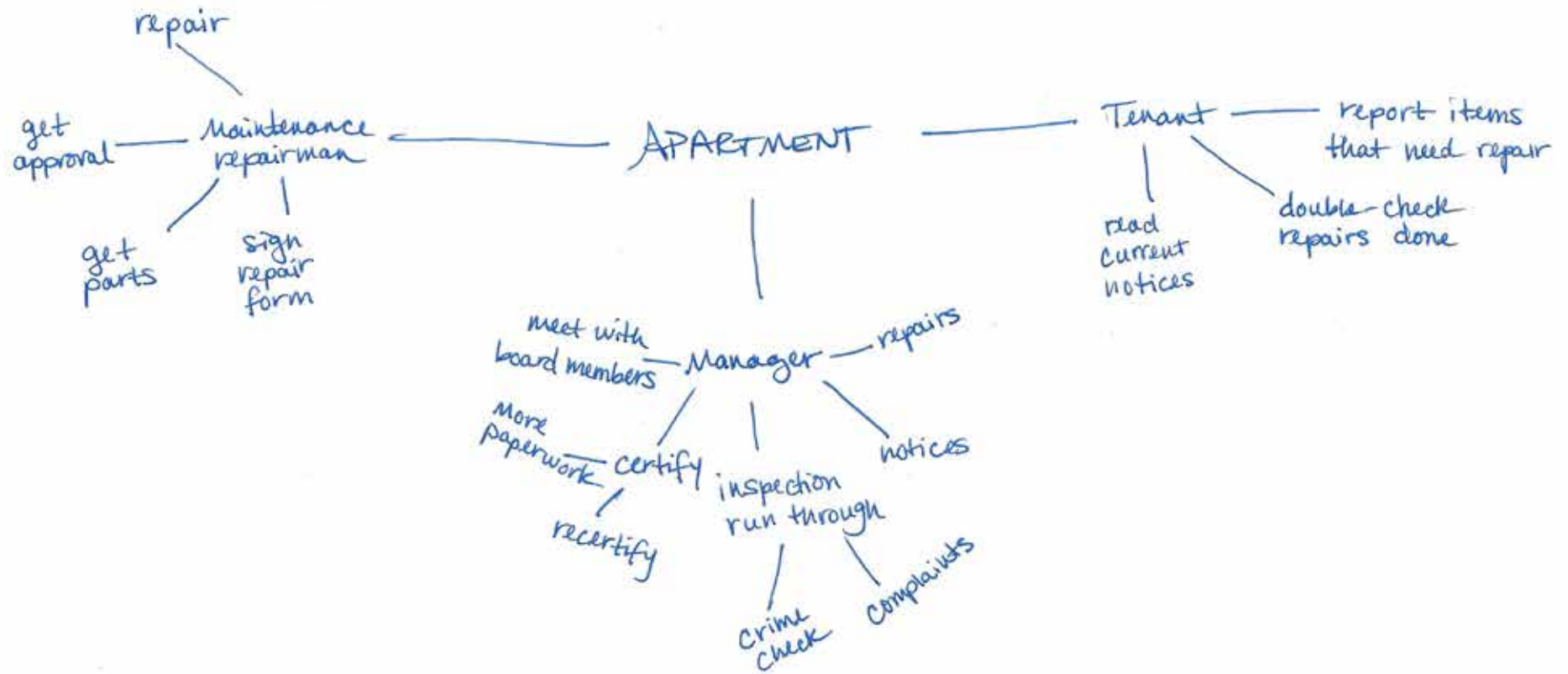
In many jurisdictions business rent is tax deductible.

Financial inadequacy, such as renting a house when one is unable to buy it. One may not wish to pay the full price that ownership would need, allowing for smaller payments over a specified period of time.

Reducing financial risk due to depreciation and transaction costs, especially for real estate which might be needed only for a short amount of time.

The tenant may want to leave the burden of upkeep of the property (mowing the lawn, shoveling snow, etc.) to the owner or his agents.

Brainstorming

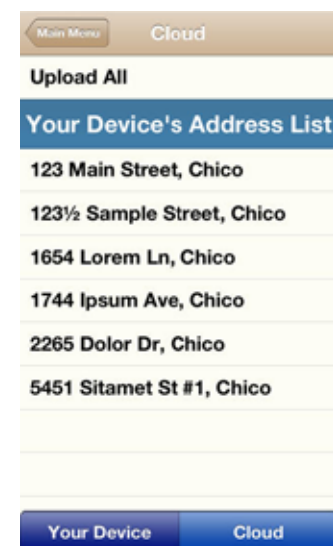
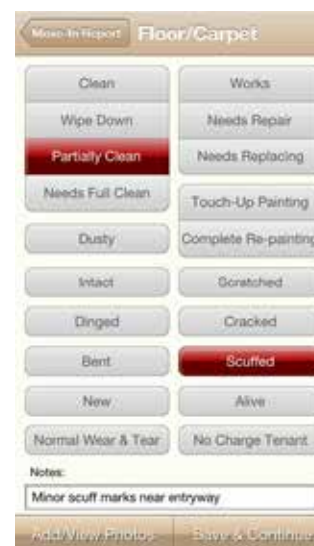


Here is my brainstorming map. It started out with the apartment and went to the manager, the tenant and the maintenance repairman. It also includes some of their responsibilities.

Exploration: Manager App Research

When I searched for apps for an “apartment manager”, 75 apps came up similar to Zillow Rentals – Apartments & Hotels or Property Pal (for realtors).

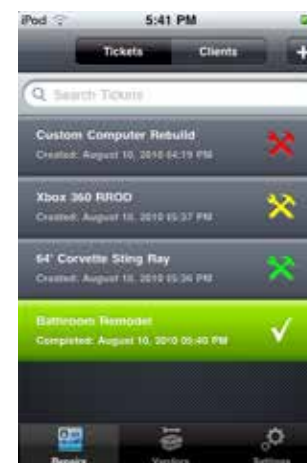
Property Pal is to be used for property inspections. It would be useful if it could coordinate with the maintenance person and the tenant on various problems.



Exploration: Maintenance App Research

“Maintenance” is the keyword I used for the repair man. I received a list of over 1000 car maintenance and home organizational apps or a few to maintain your body/health. The only other similar topic would be repair manuals.

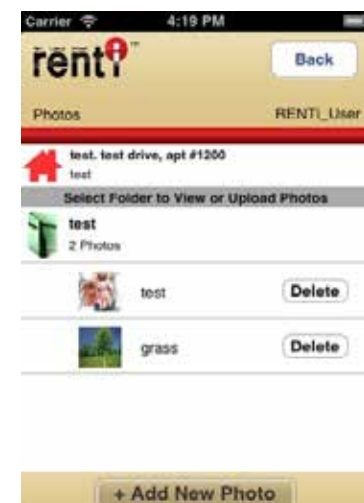
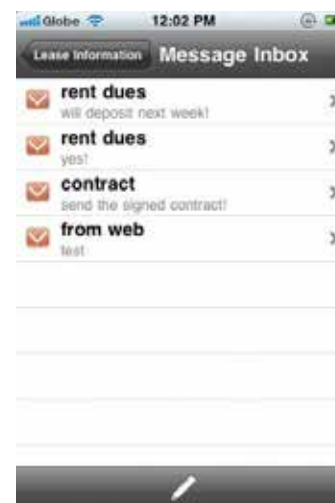
I did find one app called “Repair Ticket” that describes itself as the only professional repair ticket solution available. I only found 4 maintenance apps available.



Exploration: Tenant App Research

When I searched “renter” it came up with 34 results that had nothing to do with my topic. When I entered “tenant” I got a lot more but a majority of them were geared towards the landlord, not the tenant. There is a clear need for these type of apps.

Without purchasing these specific apps, I am unable to determine if these apps would correspond with the tenant. There was one app that seemed promising, RENTi Tenant. It is to help the tenant keep track of the condition of the property they are renting.



Professional Description & Ideas

Apartment Manager

Job description:

- Take & review housing applications
- Place people in apartments as available
- Re-certify follow up
- Apartment inspections
- Items for review
- Deal with complaints
- Authorize repairs
- Meet with board members

On the computer:

- Recertify
- Write up apartment notices *
- Do crime checks
- Write up inspections
- Print forms
- Fill out approved repair forms *
- Authorize the hours for repair/maintenance *

Maintenance /Repairman

Job description:

- Maintain apartments and grounds
- Make repairs
- Painting
- Supervise outside contractors
- Sign repair forms
- Order parts
- Empty trash
- Vacuum

Possibly on a tablet app:

- Take photos of the repair/damage
- Sign repair forms upon completion
- Order parts

Tenant

These specific apartments are for elderly 60 and older or disabled persons. Clearly not everyone would have a smartphone.

Life description:

- Get renter's insurance if desired
- Enjoy retirement/life
- Keep receipts & papers for recertification
- Report problems/repairs
- Approve repairs

Possible on a smartphone:

- Sign/approve repair upon completion
- Lodge complaint for repair
- Take photos of damage
- Check for apartment notices

Target Audiences & Personas

Apartment Manager

Barbara

Age 62

Barbara has been managing three senior and disabled housing complexes for about 25 years. She has to deal with government paperwork since they are subsidized income-based housing. She spends many extra hours making sure her tenants are all taken care of.



Maintenance/Repairman

Mark

Age 45

Mark has worked for almost 20 years as a repair/maintenance man. He has worked his way up and now enjoys being the boss. He loves his job being able to help care for the elderly in the complexes.



Tenant

Louise

Age 82

Louise moved into her current apartment a few years ago after her husband passed away. She has the opportunity to be near other people her own age while remaining independent. She enjoys the peace of mind that she doesn't have to mow the lawn or make repairs, it is done for her.



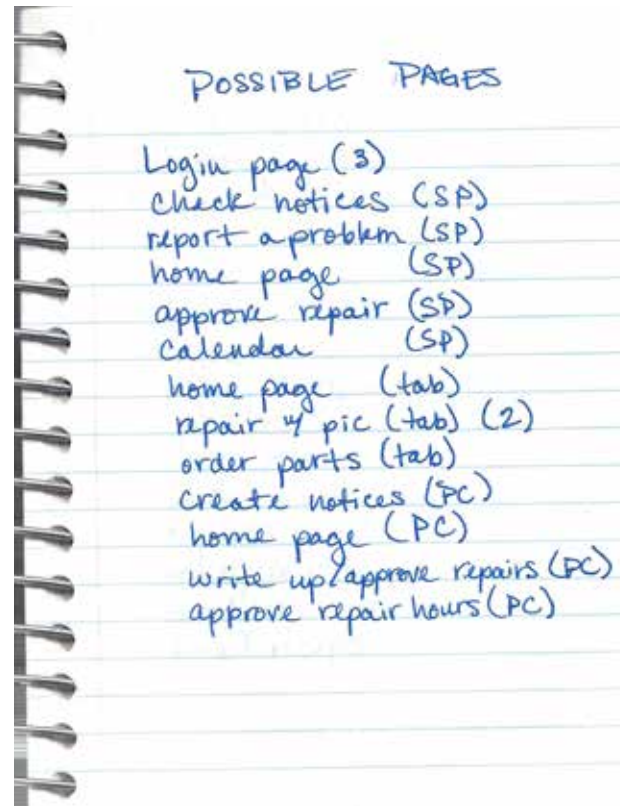
Conceptualization

The app must have:

- Login for privacy
- Simple for elderly and professionals
- Easy to navigate
- Easy to understand
- Adaptable for all devices

**Lease
Link**

I decided to use the name “Lease Link” for my app. It will represent a link for those who lease/rent with those who manage the apartments.



Sketches: PC Pages

Lease Link

LOGIN

Name

Password

Title
manager

Send

The login page will allow the user to enter their name and selected password. The title will be a drop-down menu with the choice of manager, maintenance or tenant. This will determine what kind of pages they will be receiving. The tenant will not need to have part ordering pages.

Lease Link

HOME PAGE

write up notices

run crime check

write up inspection

print forms

review repairs

inspection checklist

The home page will lead to choices for that specific field based on the title choice. Not all of these will be accessible in the prototypes based on the scenarios. It is possible for the computer to do more than the items listed here but these are the ones (plus a few extra) that we will be focusing on.

Sketches: PC Pages

Lease Link

Repair

Reported Mar 1, 2015

the bathroom faucet is leaking around handles

tenant Louise

complex South apt 2

approve & send for repair

The repair page will be a specific item that has been reported that needs fixing. This will then be reviewed by the manager and approved for repair. When it leaves this stage, it will be immediately attributed to the maintenance man's repair list. This will be the one that the tenant will be filling within their scenario from the smartphone.

This page will be the review of work done, before and after with pictures. This is for the manager to approve for the maintenance man to get paid or not approved which means he will redo said repair. This also confirms that there were no other issues at the time, such as damage done while the repair were being made. This would include photos taken by the tenant and maintenance man.

Lease Link

WORK APPROVAL

CMPLX South Apt 2

BEFORE

AFTER

PROBLEM: Leaking faucet

X _____

approve work done

Sketches: PC Pages

Lease Link

DATE	COMPLEX	APT	PROBLEM	SENT	DONE	APRD
Mar 1, 2015	South	2	leaky faucet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mar 3, 2015	North	9	Spray for bugs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mar 4, 2015	North	3	repaint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mar 6, 2015	Oak	4	clogged toilet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mar 7, 2015	South	20	leaking lightbulb	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mar 10, 2015	Oak	0	mow lawns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See more See previous

This page would be a list of the repairs as they come in, those done and those waiting for approval. This shows the progress of each repair item. It also shows the date, location and problem. If the repair were clicked on, it would show the form that led to the repair. This is a way for the manager to keep abreast of issues and priority.

Lease Link NOTICES

COMPLEX APT

MESSAGE

To All South Residents,
 Spring is here, the grass is getting taller.
 Our maintenance guy will be here on
 Tuesday to mow the lawns. Please make
 sure you don't have any items on the
 lawn for him to mow.

to all tenants.

attach signature

This is a sample of the notices that would go out to tenants. This could range from a personal one about keeping the noise down along with the statute found in the lease agreement they signed upon move-in to the all complex notice that the grass will be getting mowed on a certain date and to be aware of it.

Sketches: Tablet Pages

Just as with the login for the PC, each of the logins will have the same values required. This enables that not just anyone can pick up a device and get into the users page.

Lease Link

Login

name

password

title ▾

send

Back

This page would be specific to the maintenance man and his needs. I believe I will have all of these links functioning for my prototype.

Lease Link

Make repairs

Sign off repairs

order parts

repair calendar

Back

Although the manager would normally order parts for higher priced items, the maintenance man could order smaller parts. For my scenarios we will have them order a part that I know is found in both local area stores and is easily found.

Lease Link

Order Parts

Item Store

Item #

Model #

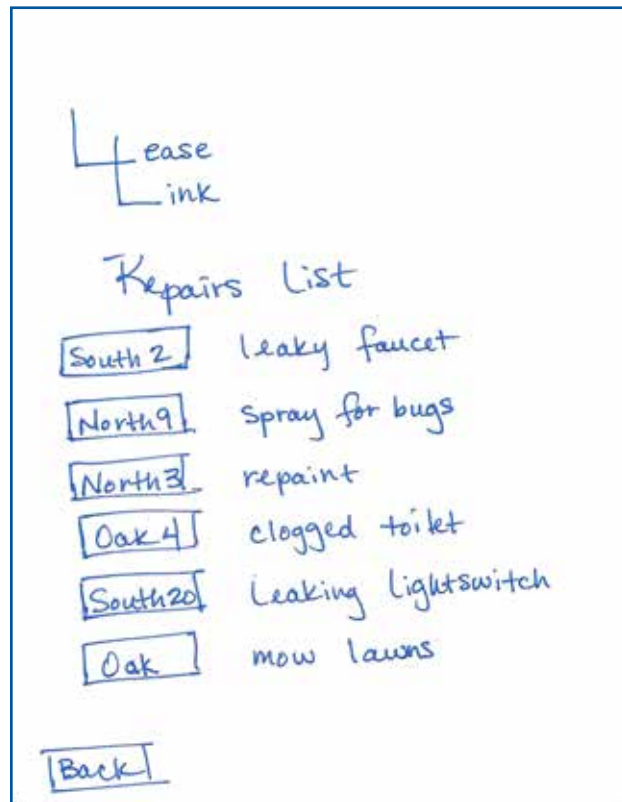
Home Depot \$

Lowe's \$

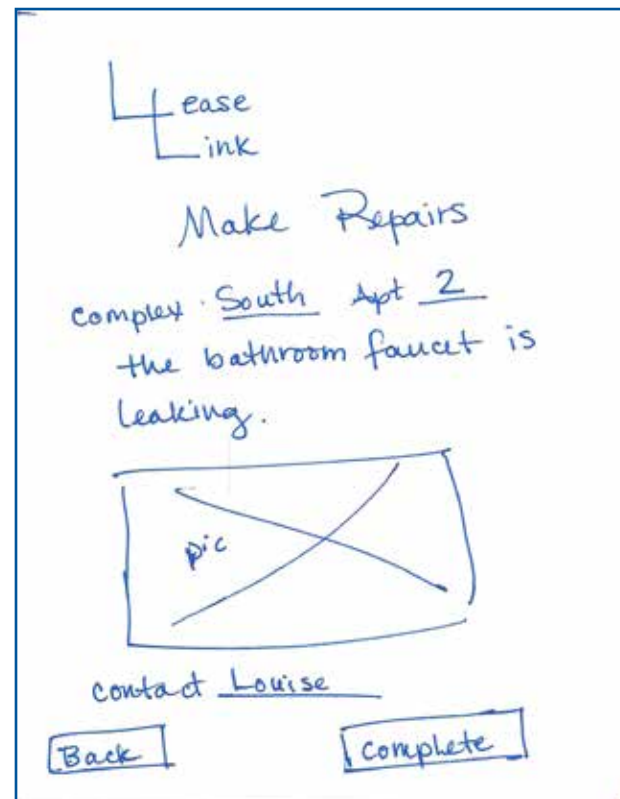
Back

Sketches: Tablet Pages

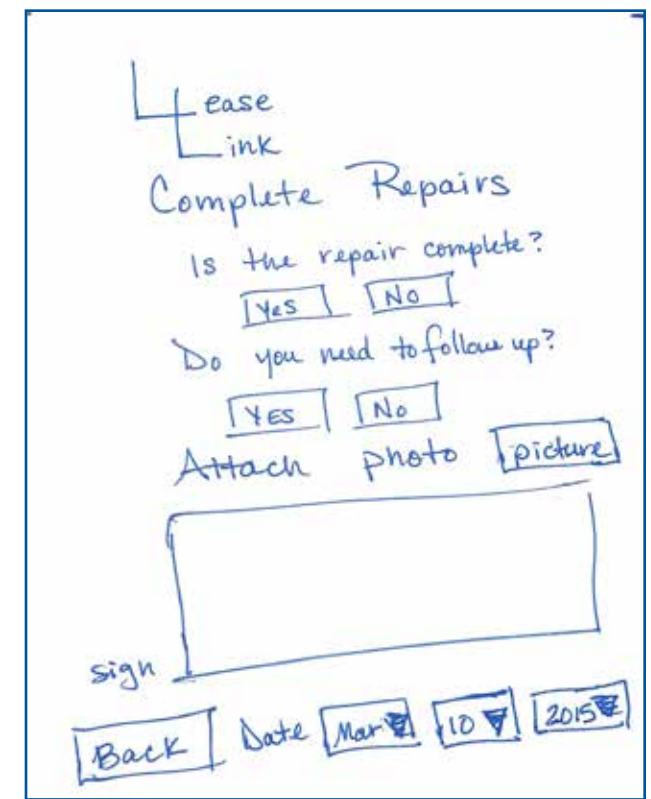
This is the repair list page. The page will list all the current repairs waiting for repair. They could be listed by order of importance or by date.



This is a sample of the repair needing to be made. When he clicks on the order, it will go to this page which shows the problem in more detail and a picture if one is available. If he clicks "complete" it will go to the next page.



The complete repairs page will be to confirm that the repair was made. He will follow the specifics and take a picture of the repair for review. In the larger box, he will sign or initial that the repairs were done.



Sketches: Smartphone Pages

Again, the login page is there for the privacy of the individual but it also specifies who is reporting the problem etc.

A hand-drawn sketch of a login page. At the top left, the text 'Lease Link' is written. Below it, the word 'Login' is centered. There are four input fields stacked vertically: 'name', 'password', 'title' (with a dropdown arrow), and 'send'. At the bottom left, there is a 'Back' button.

The home page, again, is specific to the user type. This shows different items for the user according to their settings and needs.

A hand-drawn sketch of a home page. At the top left, the text 'Lease Link' is written. Below it, there are four buttons stacked vertically: 'Report a problem', 'check notices', 'approve repairs', and 'tenant calendar'. At the bottom left, there is a 'Back' button.

The tenant will be able to report a problem, specify date, location and add a picture of the problem. This will also enable the manager and maintenance man to determine importance and tools needed.

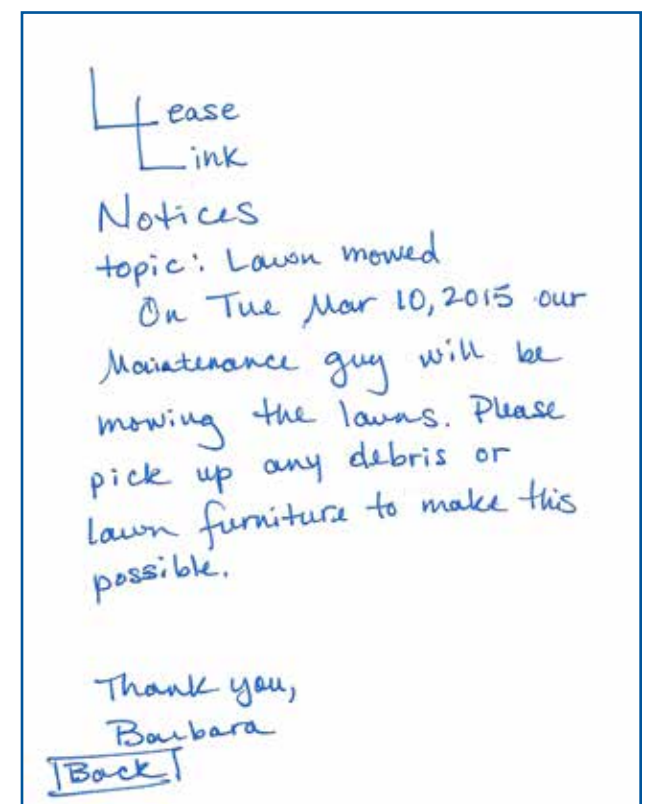
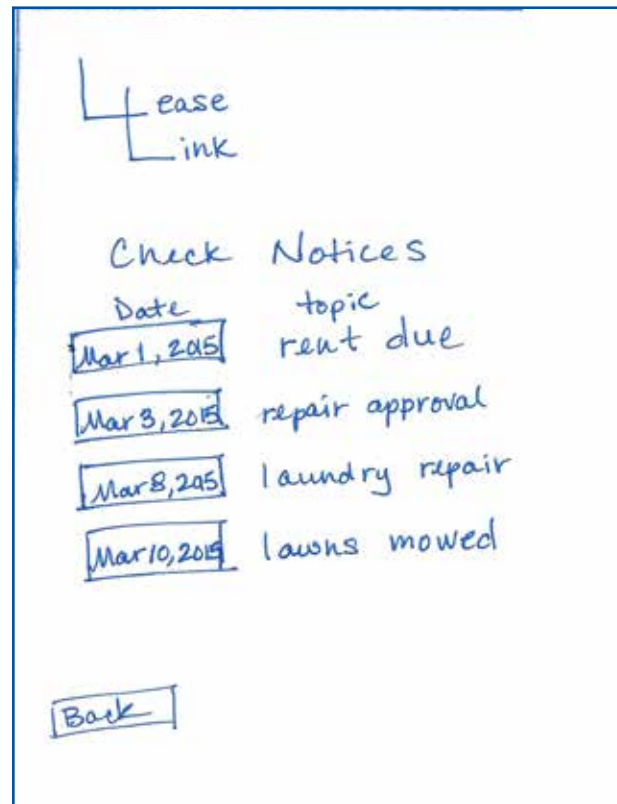
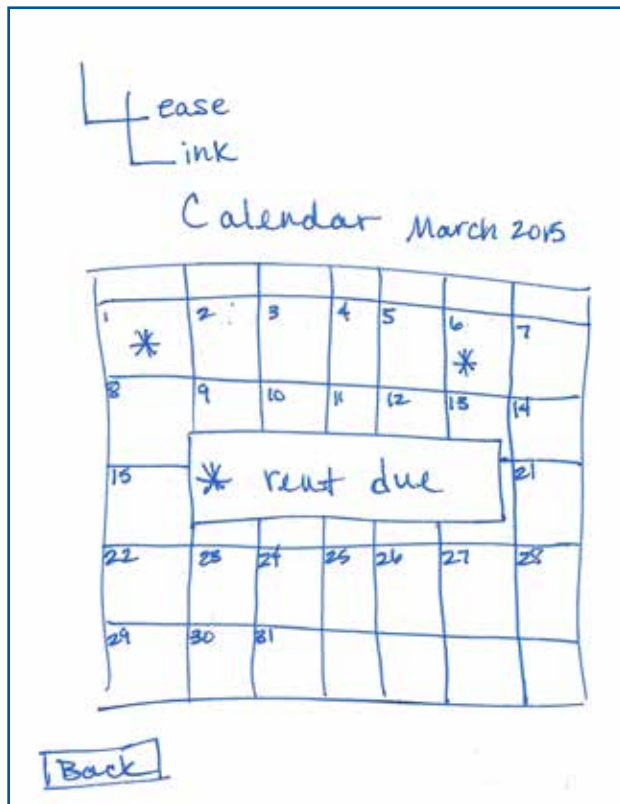
A hand-drawn sketch of a 'Report a problem' page. At the top left, the text 'Lease Link' is written. Below it, the text 'Report a problem' is centered. There are two dropdown menus: 'Apt 1' and 'complex North'. Below these is a large 'Problem text box'. At the bottom, there is a 'Date' section with three dropdown menus: '01', '01', and '1990', with '2015' written below them. There are also two buttons: 'Back' and 'Add a picture'.

Sketches: Smartphone Pages

The calendar will have a star on all the important dates the tenant needs to know. This will include the rent due all the way to the grass being cut. This is also important in case the maintenance man is coming to repair something on a specific date so she/he will be home.

If the tenant missed a notice or wants to go back to reread it, it is at their fingertips. They can choose which one had the vital information that they needed to recall.

The notices that the manager posts for the tenants will come into the app for the tenant to see right away. No waiting for the mail to get there, they can be kept informed timely. These could also have a “notifications” so they will get it without logging into their app.



Scenarios

Apartment Manager

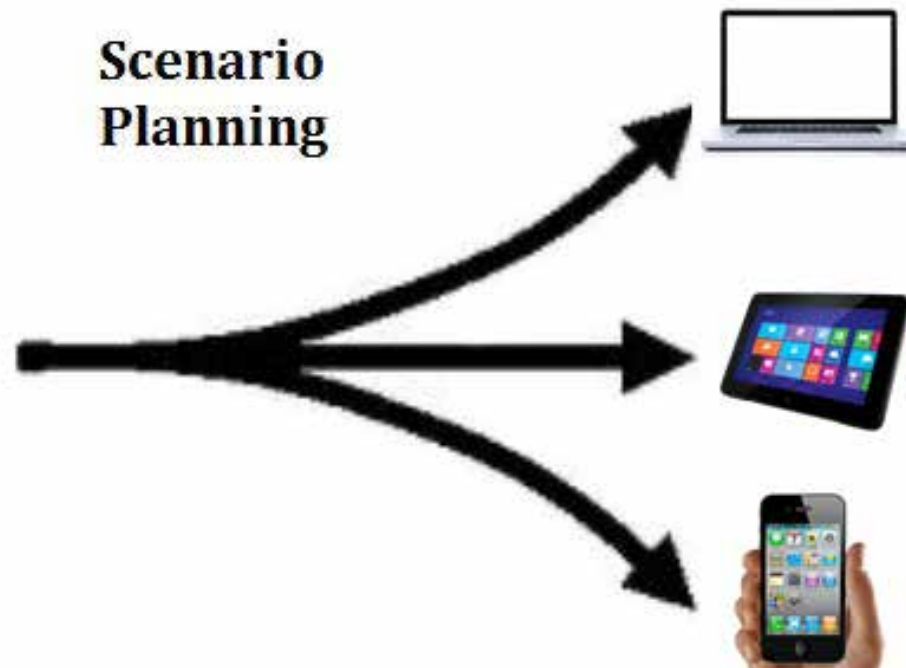
1. Review all the recent repairs. Pull up the newest repair and approve for repair.
2. Recently the maintenance man made a repair, review and approve it.
3. Write up a notice to all the tenants about the maintenance man mowing Tuesday March 10th at the South complex.

Maintenance Man

1. Order a new stove for an apartment. The manager has approved a Hotpoint Gas Range for an apartment.
2. From the repair list, review and repair the first item on the list.
3. Complete the repair and sign it off with a picture attached.

Tenant

1. Report a leaking faucet in the bathroom for your apartment #2 South.
2. Check your calendar for any new items.
3. Check notices and reread the one sent for March 10th.



Usability Test 01: Manager

Apartment Manager

1. Review all the recent repairs. Pull up the newest repair and approve for repair.
2. Recently the maintenance man made a repair, review and approve it.
3. Write up a notice to all the tenants about the maintenance man mowing Tuesday March 10th at the South complex.

Scenario 1 Results

A “home” link needs to be added to each page so that wherever they are, they can return to the home page quickly.

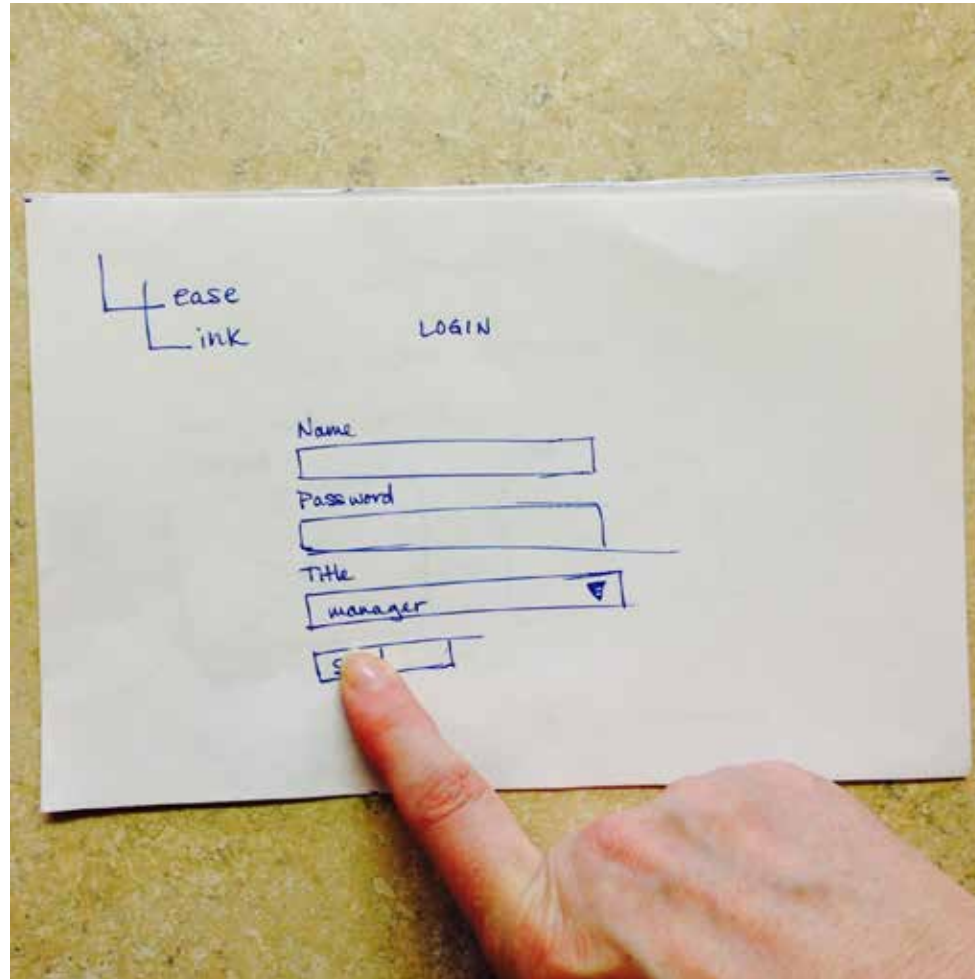
Scenario 2 Results

The send button needs to be added to the page.

Scenario 3 Results

On the notice page, it is redundant to have the notice repeat what apartment and complex they are at.

I ran all of my test subjects through all nine scenarios to see if each had anything different to add.



Usability Test 01: Maintenance

Maintenance man

1. Order a new stove for an apartment. The manager has approved a Hotpoint Gas Range for an apartment.
2. From the repair list, review and repair the first item on the list.
3. Complete the repair and sign it off with a picture attached.

Scenario 1 Results

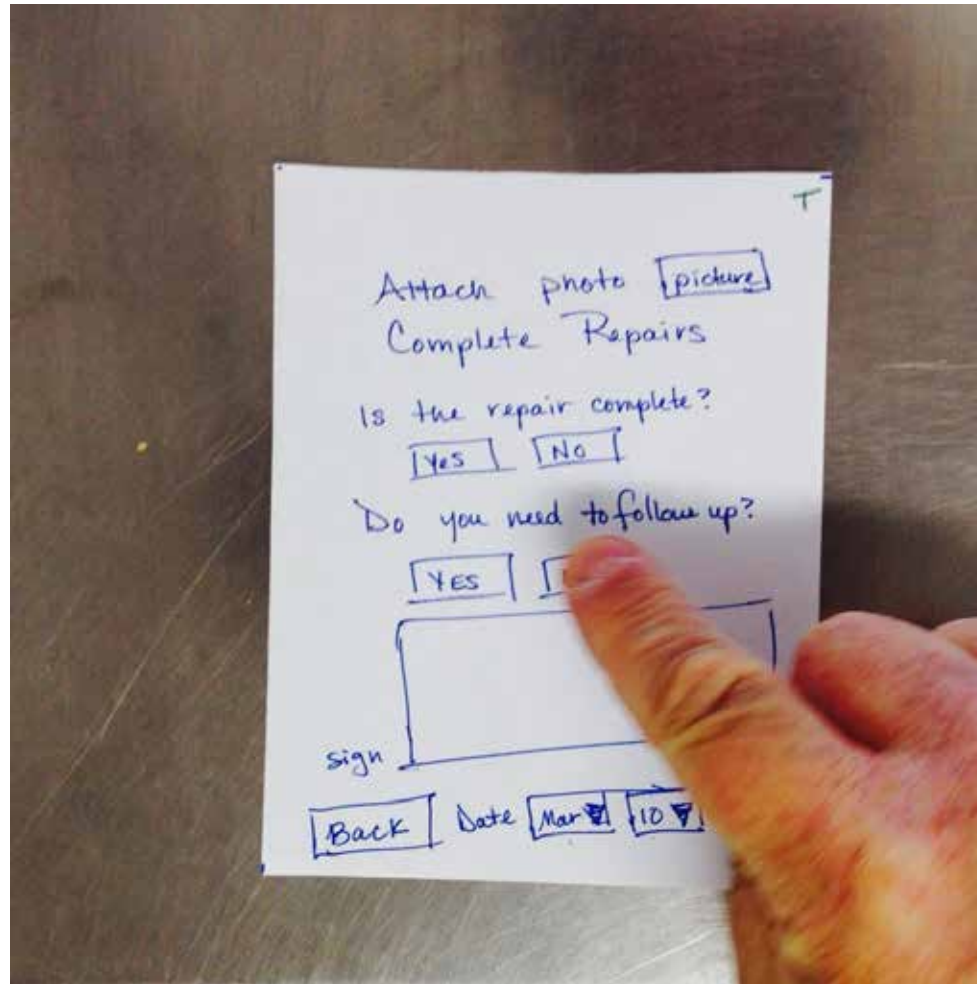
The send button needs to be added to the page.

Scenario 2 Results

It would be good if a calendar page were set up for the maintenance guy.

Scenario 3 Results

The maintenance man needs to check the smoke alarms in each apartment when he makes a repair. Those need to be added to each repair form.



Usability Test 01: Tenant

Tenant

1. Report a leaking faucet in the bathroom for your apartment #2 South.
2. Check your calendar for any new items.
3. Check notices and reread the one sent for March 10th.

Scenario 1 Results

On the smartphone report form, it is unnecessary to have them fill in the date when the phone could do it automatically.

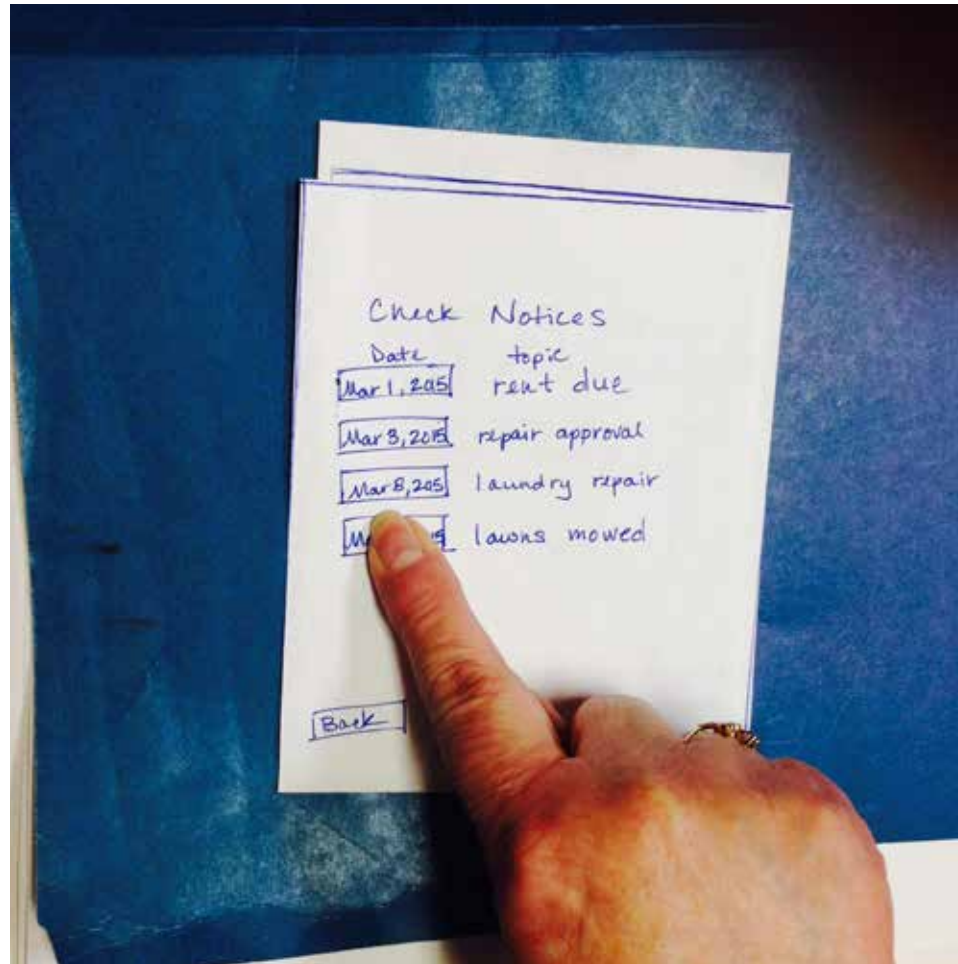
The report form needs the tenant signature if it is found on the manager's form when they have final approval.

Scenario 2 Results

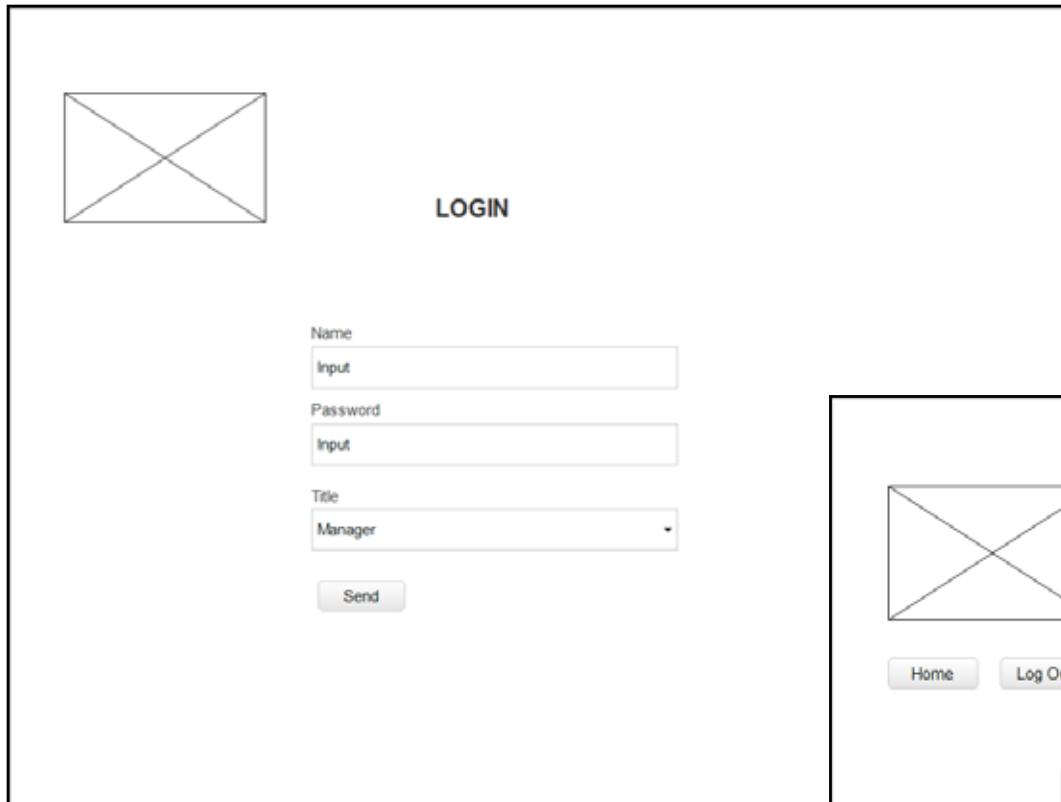
The send button needs to be added to the page.

Scenario 3 Results

A "home" link needs to be added to each page so that wherever they are, they can return to the home page quickly.



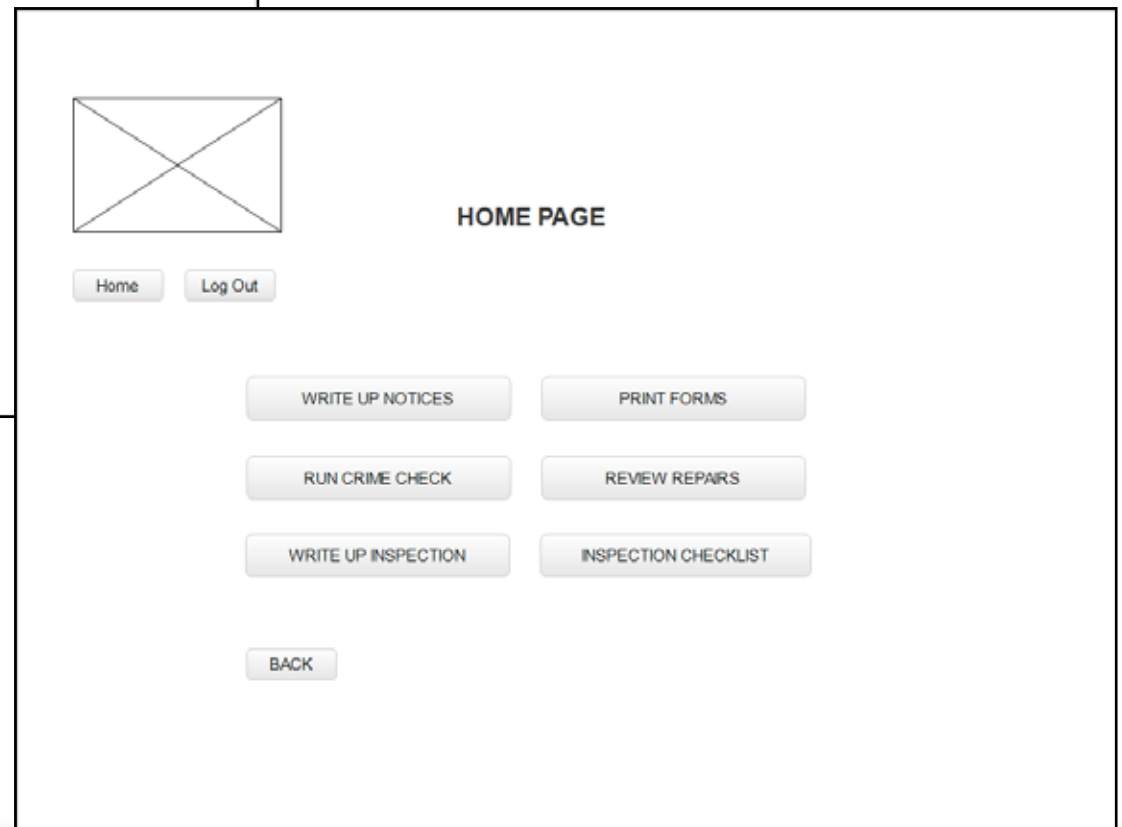
Wireframes: Personal Computer



The wireframe for the login page features a placeholder image box in the top left corner. To its right, the word "LOGIN" is centered. Below this, there are three input fields: "Name" with "Input" text inside, "Password" with "Input" text inside, and "Title" with a dropdown menu showing "Manager". A "Send" button is positioned at the bottom of the form.

Login Page

The login gives the user the option to enter their title of manager, maintenance/repair or tenant which will give them the settings for them specifically. The password enables privacy.

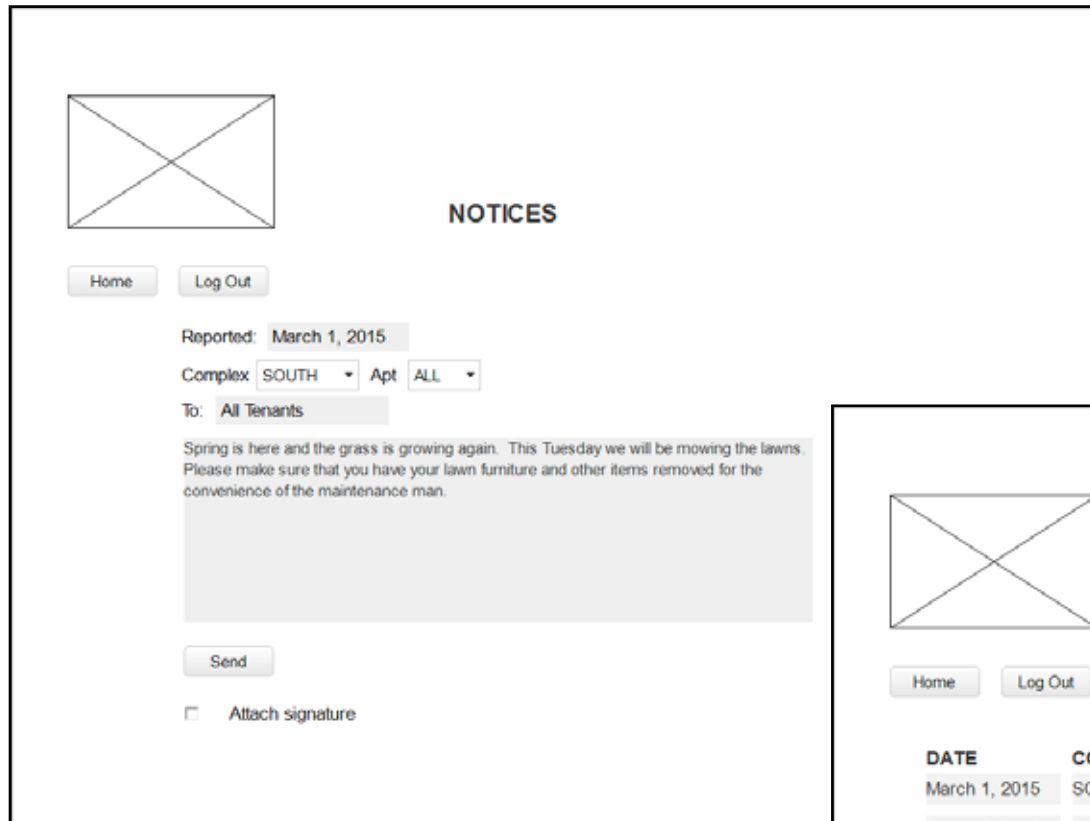


The wireframe for the home page features a placeholder image box in the top left corner. To its right, the words "HOME PAGE" are centered. Below this, there are two buttons: "Home" and "Log Out". Further down, there are six buttons arranged in a 3x2 grid: "WRITE UP NOTICES", "PRINT FORMS", "RUN CRIME CHECK", "REVIEW REPAIRS", "WRITE UP INSPECTION", and "INSPECTION CHECKLIST". At the bottom, there is a "BACK" button.

Home Page

These are built based along the lines of the paper sketches with a few minor adjustments. The home page will give the user access to the main parts of the app that connect to the maintenance and tenant apps.

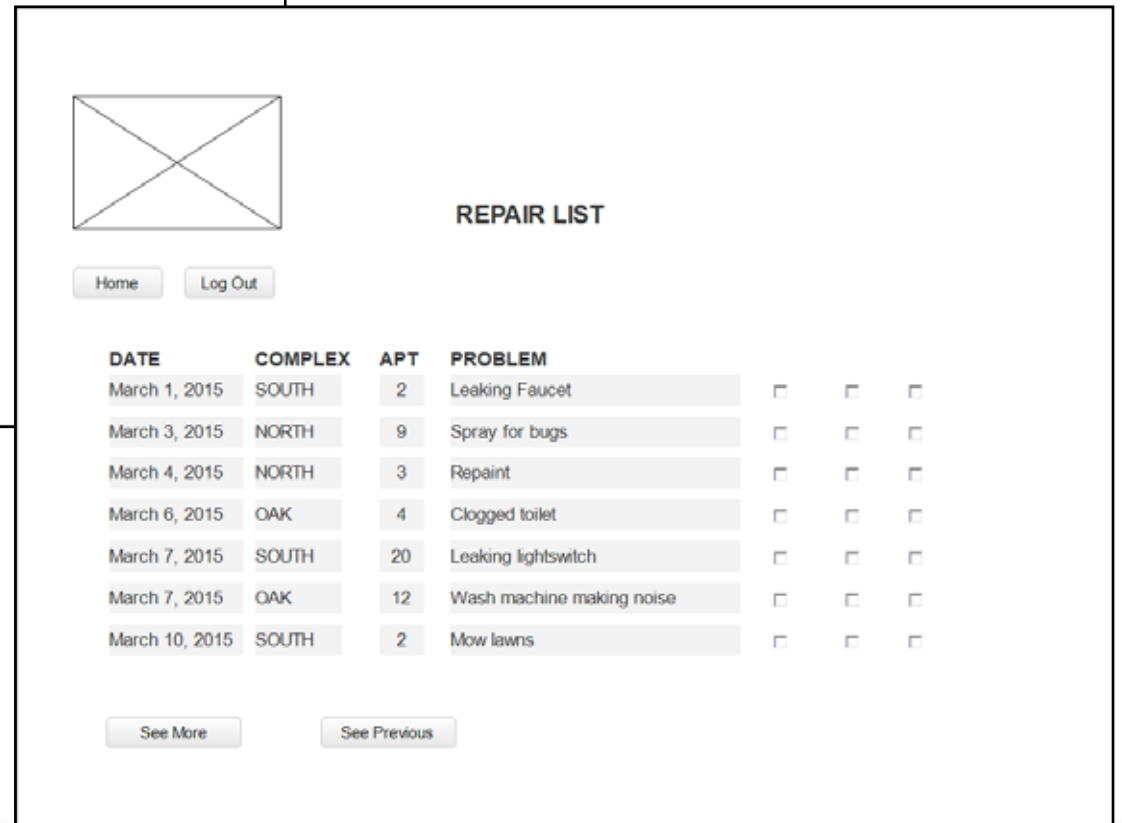
Wireframes: Personal Computer



The wireframe for the NOTICES page features a header with a placeholder icon and the title "NOTICES". Below the header are "Home" and "Log Out" buttons. The form includes a "Reported:" field with the value "March 1, 2015", a "Complex:" dropdown menu set to "SOUTH", an "Apt:" dropdown menu set to "ALL", and a "To:" field set to "All Tenants". A text area contains a notice about lawn mowing. At the bottom, there is a "Send" button and a checkbox labeled "Attach signature".

Notices Page

The notices page would be where the manager would type up notices that would be sent to the tenant's individual apps. These would be personalized or complex wide based upon the selection of the manager.



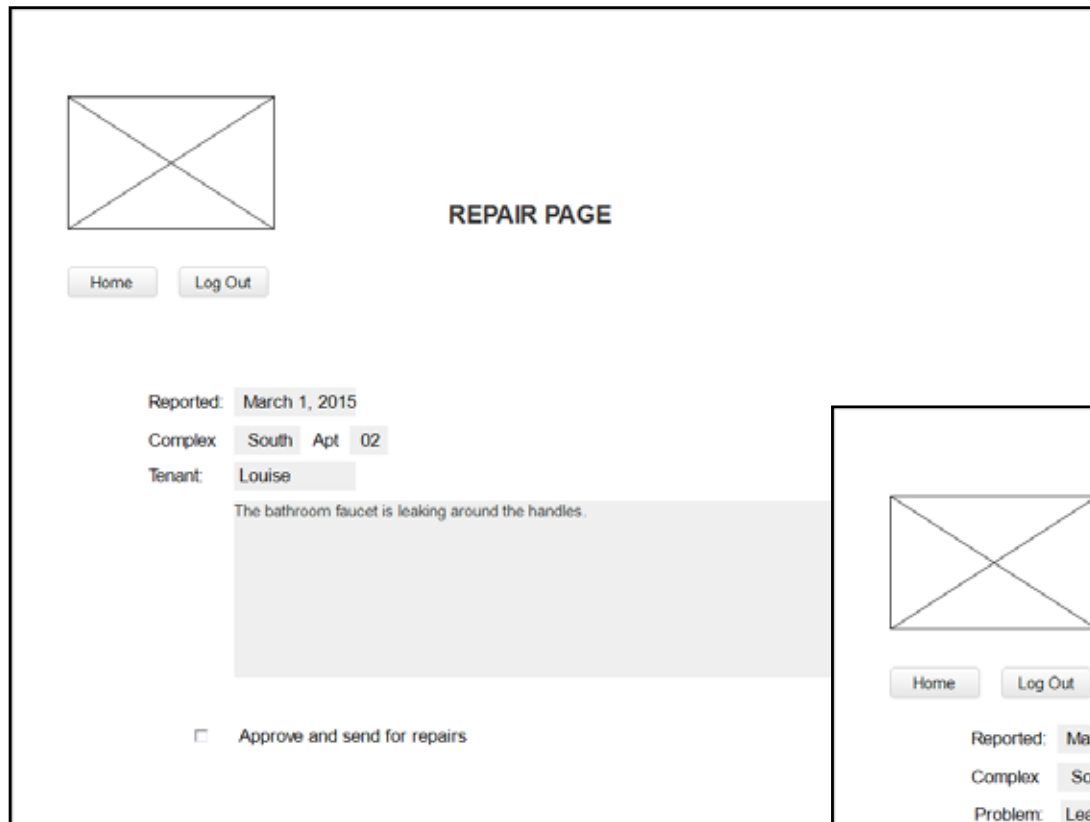
The wireframe for the REPAIR LIST page features a header with a placeholder icon and the title "REPAIR LIST". Below the header are "Home" and "Log Out" buttons. The main content is a table with columns for DATE, COMPLEX, APT, and PROBLEM. Each row includes three checkboxes for tracking the repair status. At the bottom, there are "See More" and "See Previous" buttons.

DATE	COMPLEX	APT	PROBLEM			
March 1, 2015	SOUTH	2	Leaking Faucet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 3, 2015	NORTH	9	Spray for bugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 4, 2015	NORTH	3	Repaint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 6, 2015	OAK	4	Clogged toilet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 7, 2015	SOUTH	20	Leaking lightswitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 7, 2015	OAK	12	Wash machine making noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 10, 2015	SOUTH	2	Mow lawns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Repair List Page

The repair list will give the manager the list of current problems. They are sorted by date with the complex name, apartment number and a brief description of each problem needing attention. The checkboxes are for the repairs that have been 'sent', 'done' and 'approved'. They didn't get labeled.

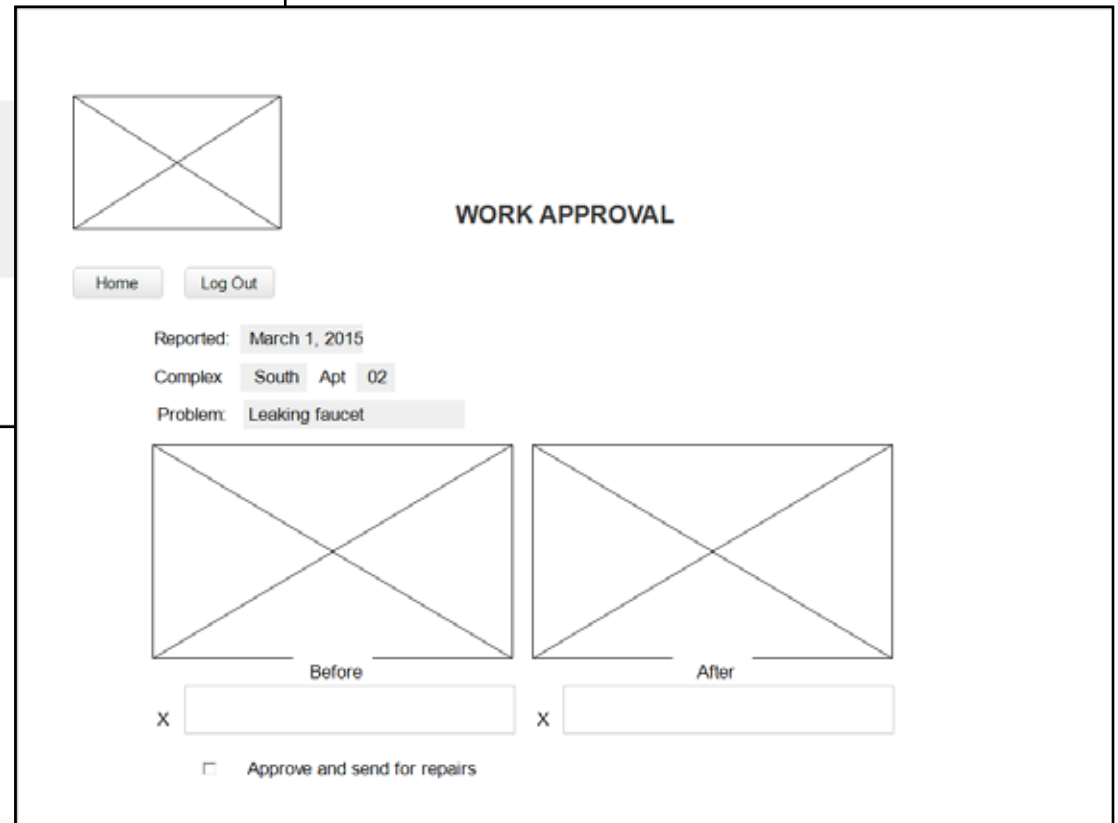
Wireframes: Personal Computer



The wireframe for the Repair Page features a header with a placeholder image and the title "REPAIR PAGE". Below the header are two buttons: "Home" and "Log Out". The main content area includes a form with the following fields: "Reported:" with the value "March 1, 2015"; "Complex:" with values "South" and "Apt 02"; and "Tenant:" with the value "Louise". Below these fields is a text area containing the description "The bathroom faucet is leaking around the handles." At the bottom of the page is a checkbox labeled "Approve and send for repairs".

Repair Page

The repair page would be the page coming from the tenant with the repair complaint. This would then be approved by the manager to go out to the repair man.

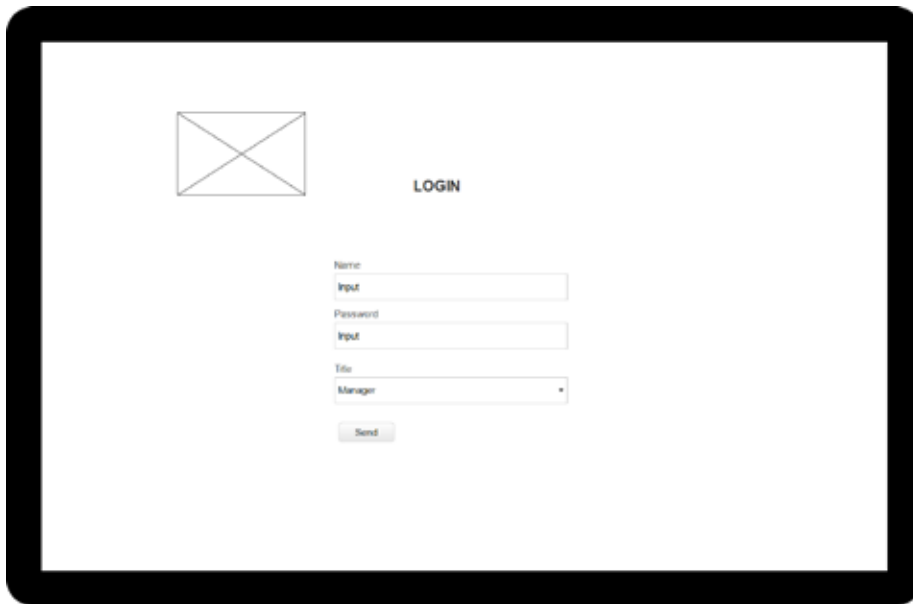


The wireframe for the Work Approval Page features a header with a placeholder image and the title "WORK APPROVAL". Below the header are two buttons: "Home" and "Log Out". The main content area includes a form with the following fields: "Reported:" with the value "March 1, 2015"; "Complex:" with values "South" and "Apt 02"; and "Problem:" with the value "Leaking faucet". Below these fields are two placeholder images for "Before" and "After" photos, each with a text input field below it. At the bottom of the page is a checkbox labeled "Approve and send for repairs".

Work Approval Page

This page is what comes back from the maintenance/repair man and the tenant after the repairs are done. The page would show a picture of the before and the after of the object in question to show that it was repaired without the surrounding area being damaged as well as the signature that repairs were completed.

Wireframes: Tablet



As with the personal computer app, the app pages for the maintenance man will correspond with the manager and tenant pages.

Login Page

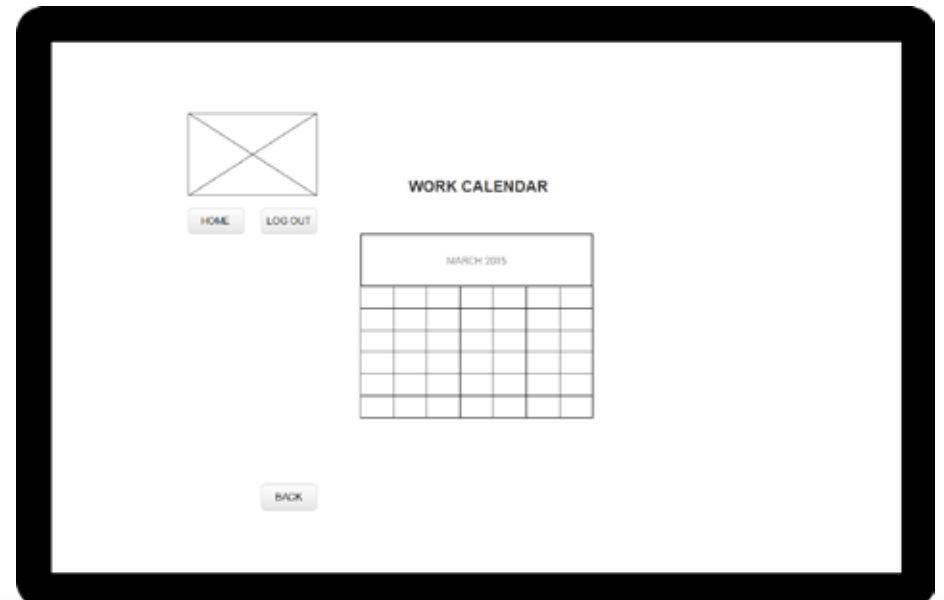
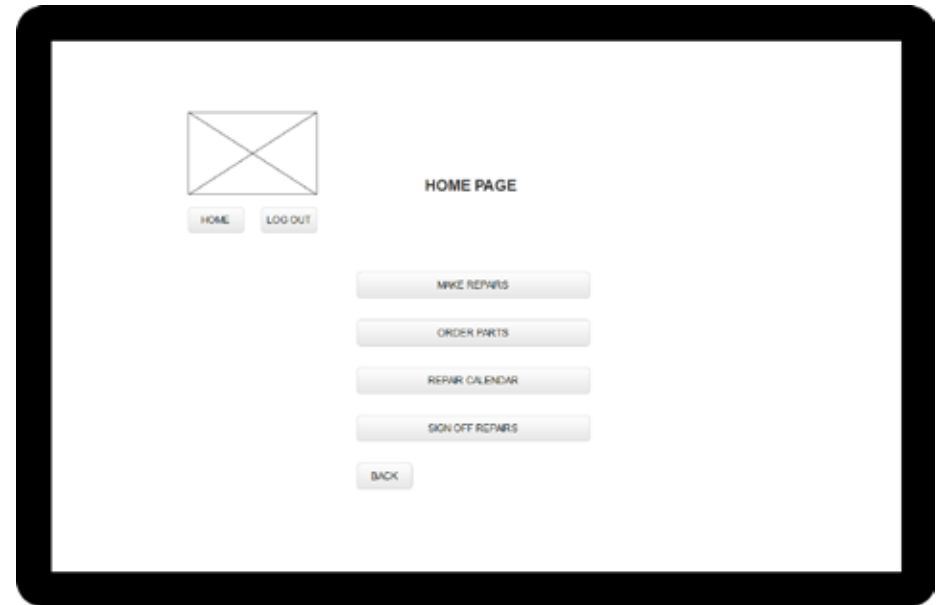
The login page is very similar to the manager and tenant login.

Home Page

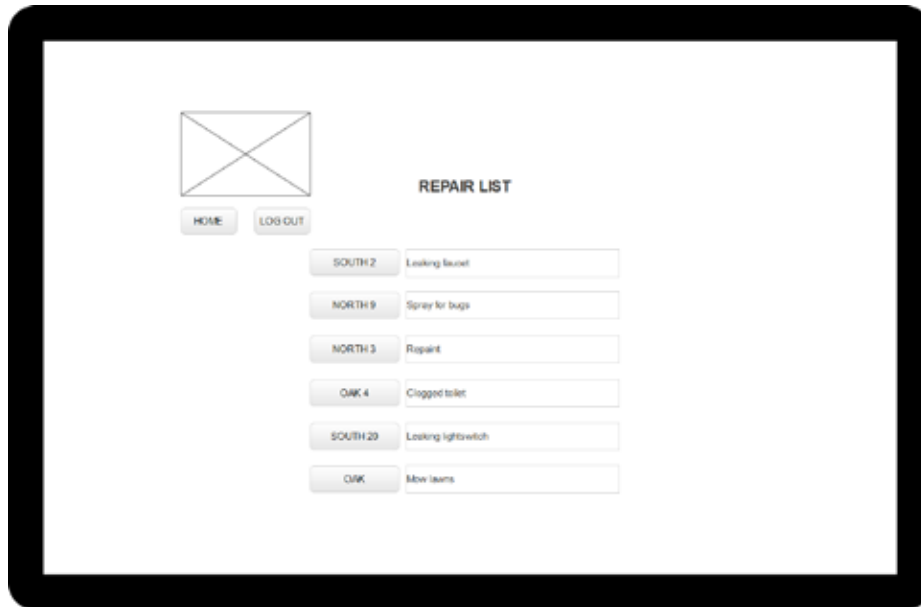
The home page gives him/her access to pages that are geared towards his title and responsibilities.

Work Calendar

The calendar page would be for him to know which days he has assignments due and when clicked upon, would show information in a popup.



Wireframes: Tablet



Repair List Page

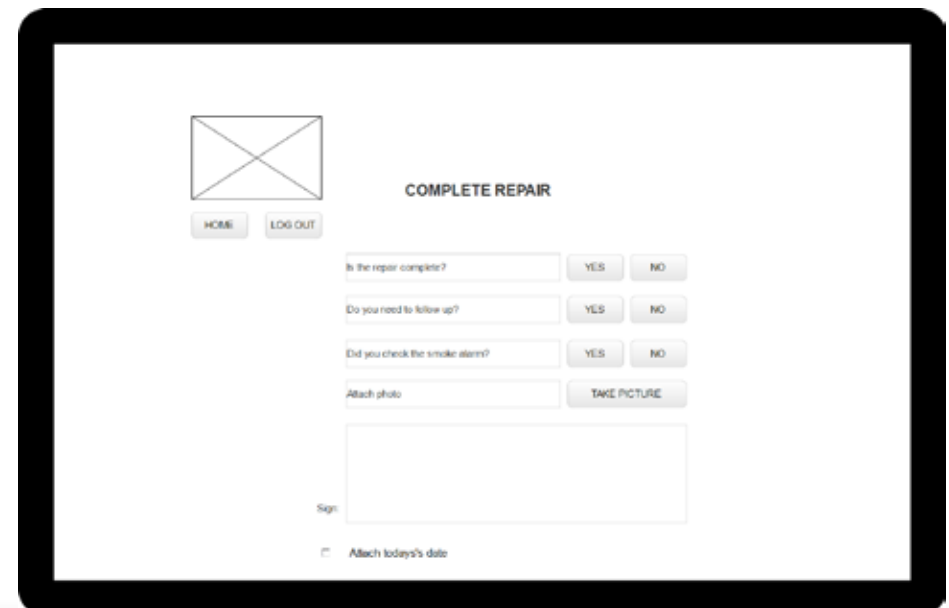
The repair list page will show what is coming up at a glance. This will also enable him to see if one item is more important than another, such as a clogged toilet or if the item is an easy fix while he is already in that complex.

Repair Page

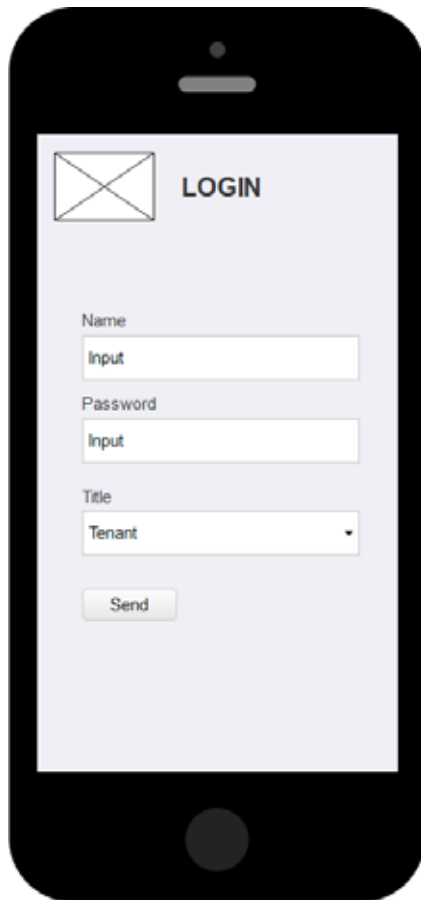
The repair page will give a more in-depth description of the problem along with a picture of the problem. This will let him know at a glance if he will need a specific tool or give him an idea how serious the problem is.

Complete Repair

This page is the final page he has on a repair to verify that he has completed the job, if it needs a follow-up, check the smoke alarms and attach a photo.

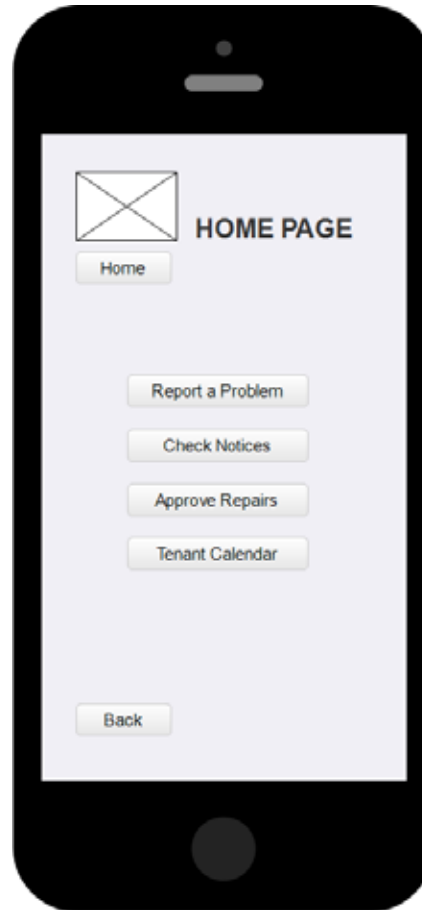


Wireframes: Smart Phone



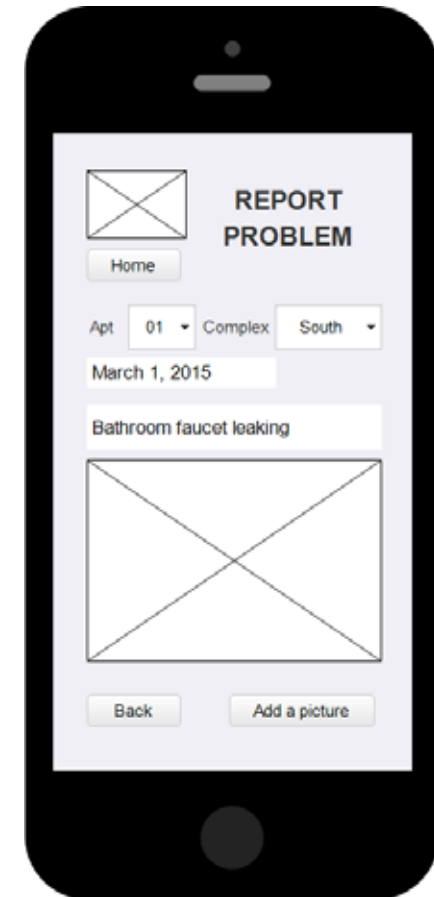
Login Page

The login page is similar to the tablet and personal computer app with name, password and title.



Repair Page

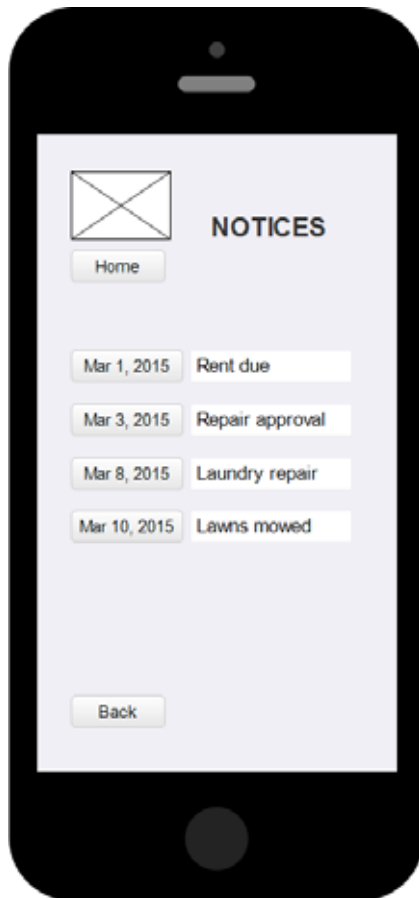
The home page has buttons to tasks specific to the tenant.



Report Problem

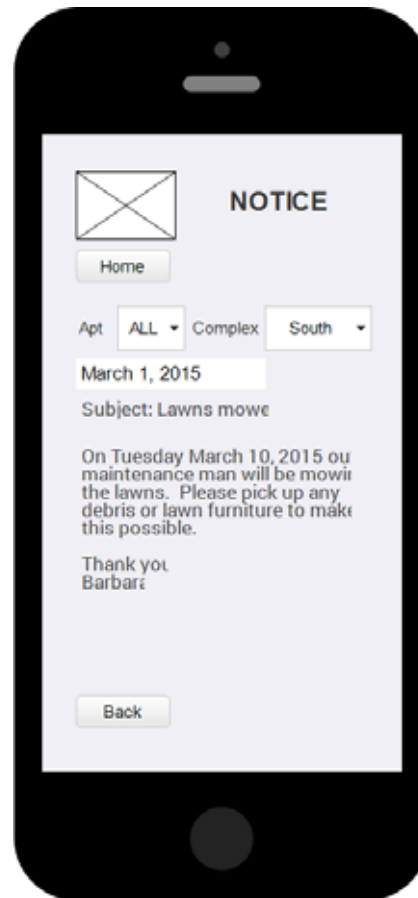
This page allows the tenant to report a problem when they think of it before it slips their mind. This will enable them to report without waiting until the office opens to get hold of the manager.

Wireframes: Smart Phone



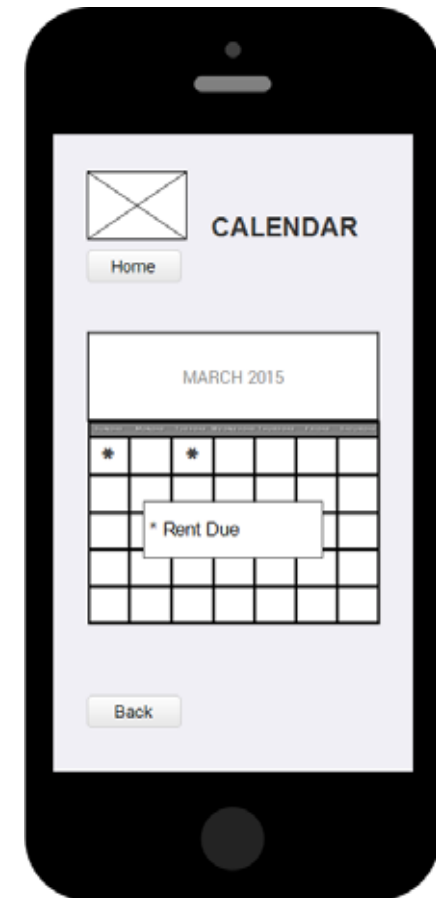
Notices List Page

This page will have the list of notices that have been posted by the manager that pertain to them.



Notice Page

This is a specific notice that can be accessed from the notice list or the calendar depending on which one they accessed first.



Calendar

This page will keep the tenant up to date with what is happening and remind him/her of rent due dates as well as repair/maintenance dates so they don't make plans.

Usability Test 02: Personal Computer

Apartment Manager

1. Review all the recent repairs. Pull up the newest repair and approve for repair.
2. Recently the maintenance man made a repair, review and approve it.
3. Write up a notice to all the tenants about the maintenance man mowing Tuesday March 10th at the South complex.

Scenario 1 Results

It would be helpful if the repair list page had an option to sort the list by date, importance, location etc.

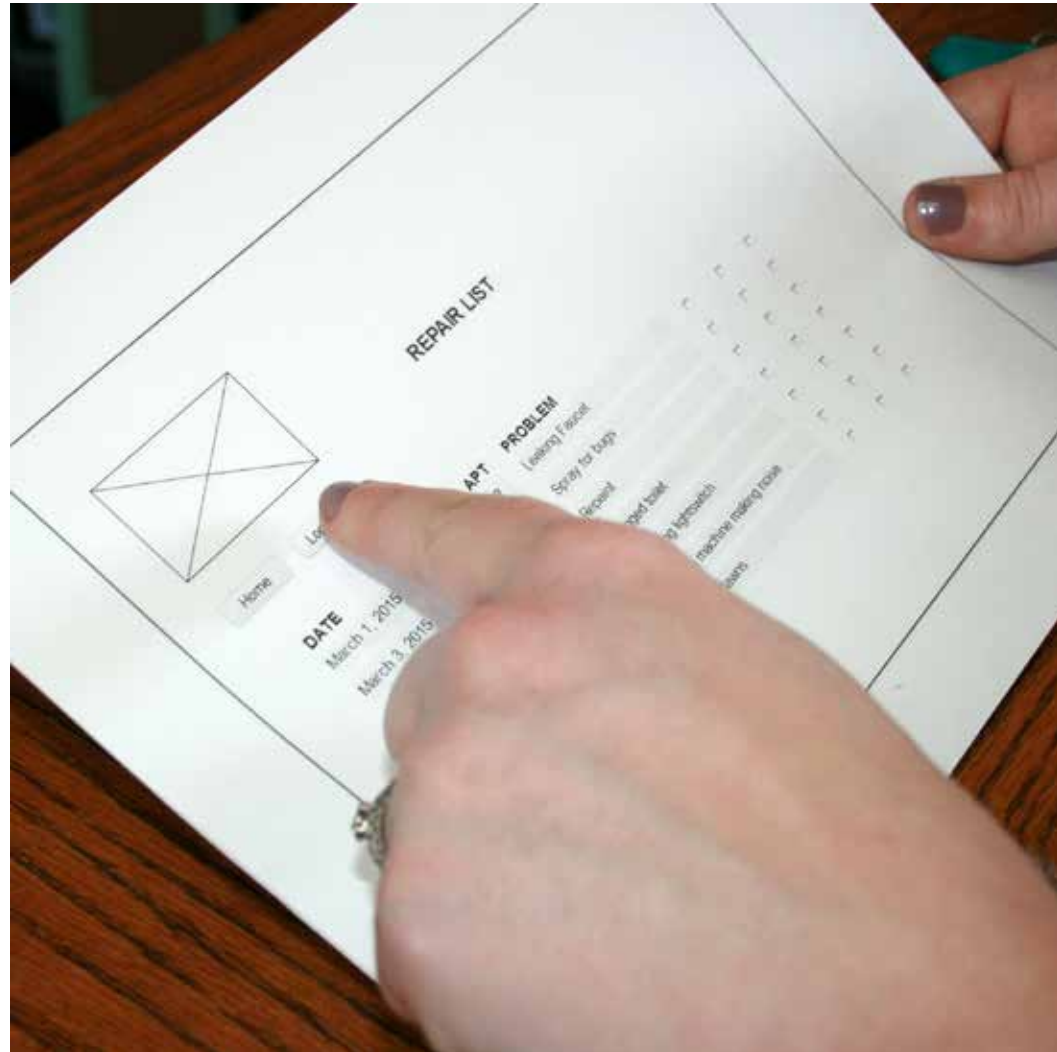
The check boxes need column titles.

Scenario 2 Results

Do the page titles need the word "page" in it? Not all of them have it

Scenario 3 Results

Again, no 'page' in title.



Usability Test 02: Tablet

Maintenance Man

1. Order a new stove for an apartment. The manager has approved a Hotpoint Gas Range for an apartment.
2. From the repair list, review and repair the first item on the list.
3. Complete the repair and sign it off with a picture attached.

Scenario 1 Results

The buttons seem really small. It would be better if they were larger.

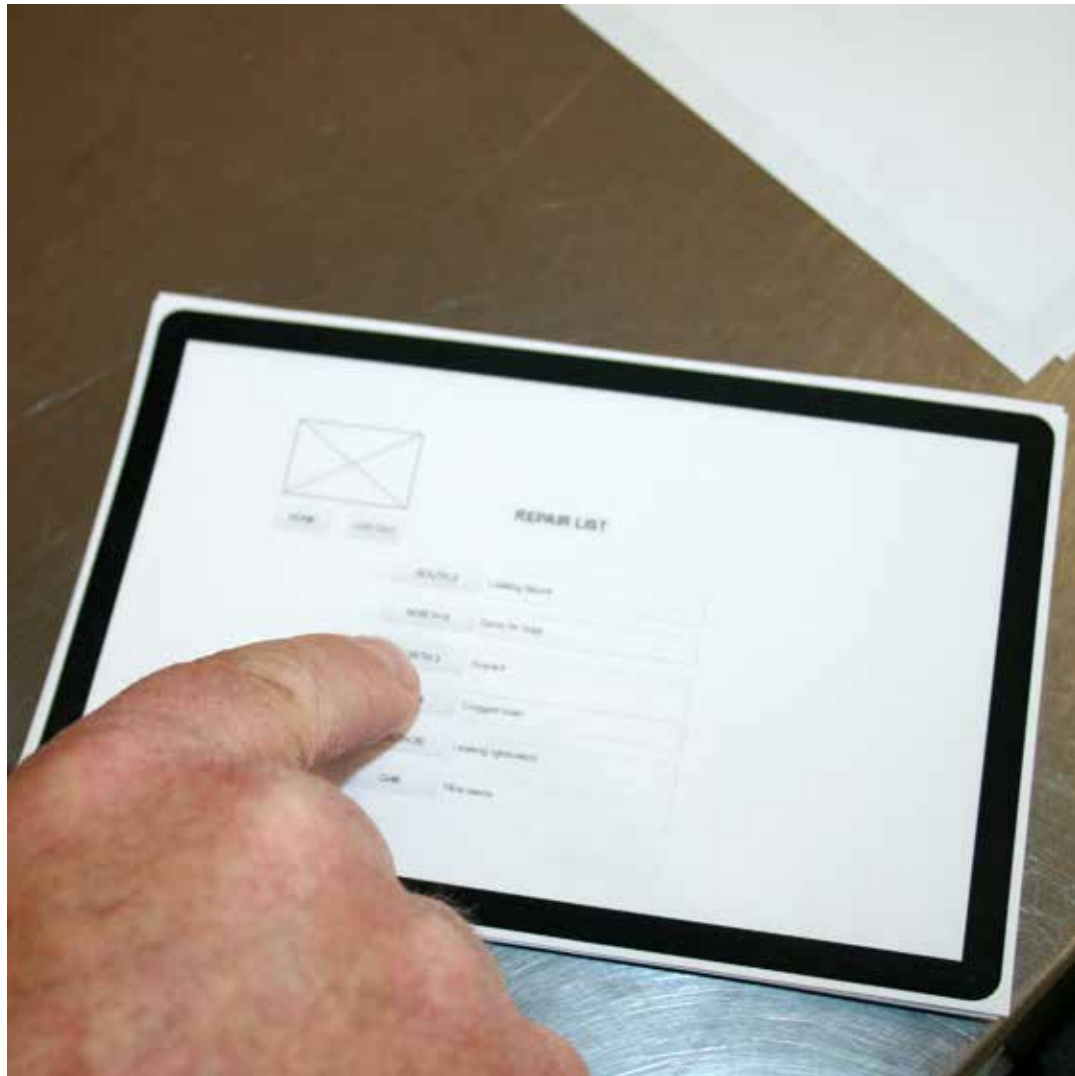
The order page needs some work.

Scenario 2 Results

The repair list page needs a back button.

Scenario 3 Results

The calendar needs the stars to mark the important dates for maintenance.



Usability Test 02: Smart Phone

Tenant

1. Report a leaking faucet in the bathroom for your apartment #2 South.
2. Check your calendar for any new items.
3. Check notices and reread the one sent for March 10th.

Scenario 1 Results

The picture button might want to be moved to the top of the picture to be added.

Scenario 2 Results

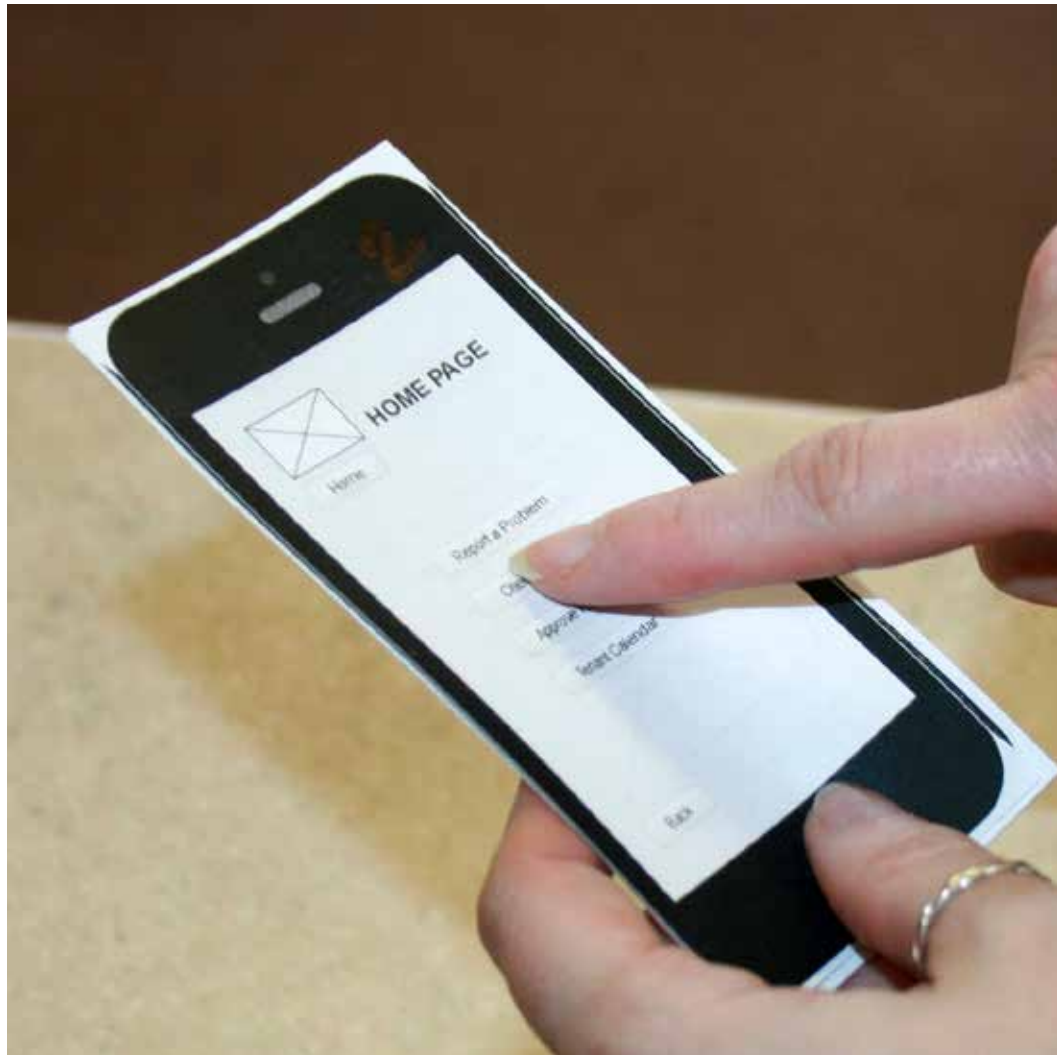
The login title and logo image need to be moved in line with the other app titles.

Might want to add instructions to touch the calendar date for information.

Scenario 3 Results

The home page, does it really need the 'home' button?

The prototyper cut off some of the words in the text.



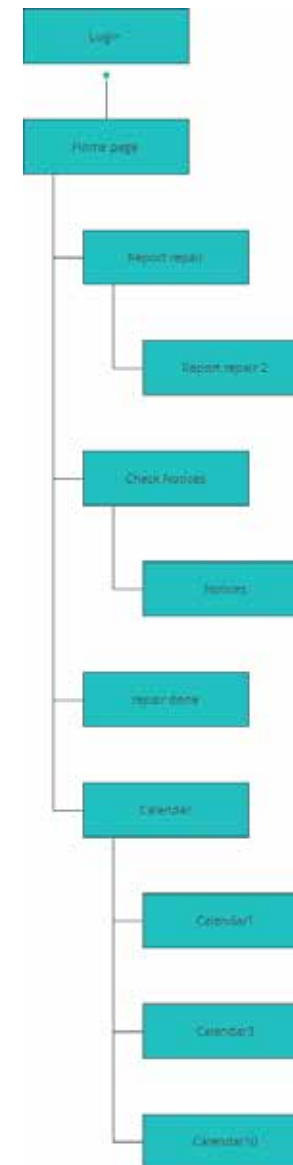
Site Maps



Manager on the Personal Computer



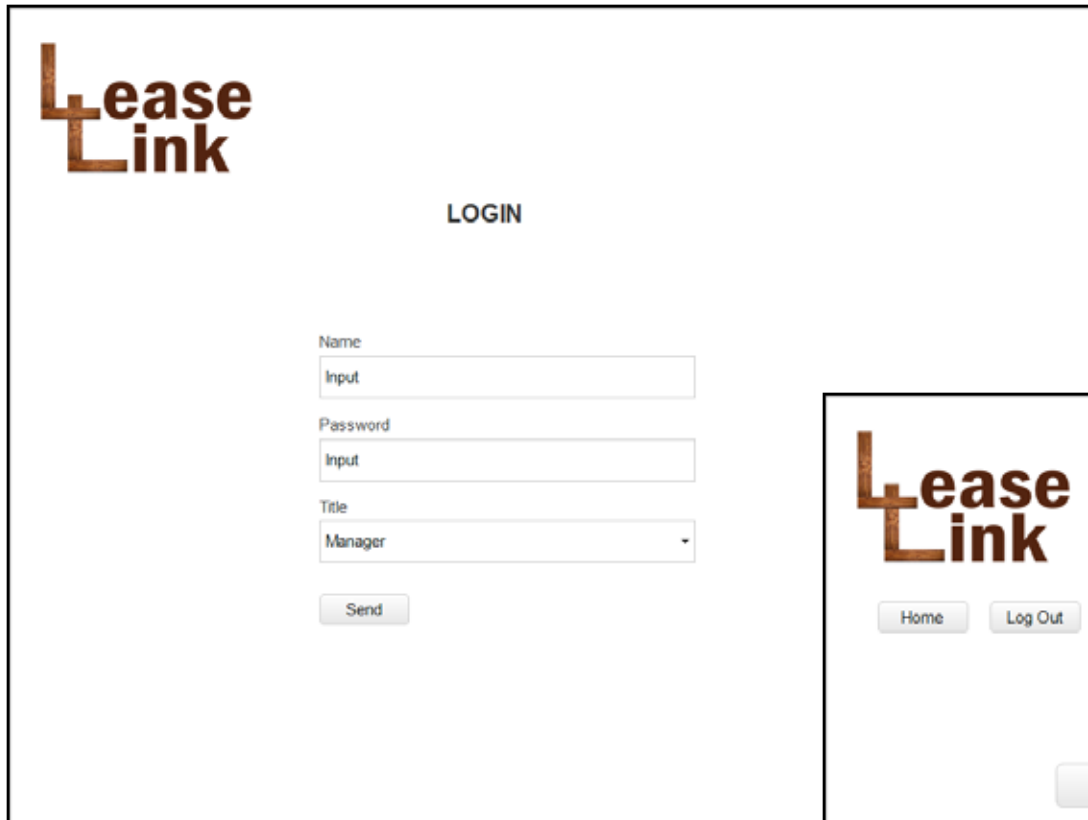
Maintenance on the Tablet



Tenant on the Smartphone

The site maps show how each of the pages connect and shows how the user would navigate the sites. The home pages go to the pages for my prototypes, each of them connecting back to the home page.

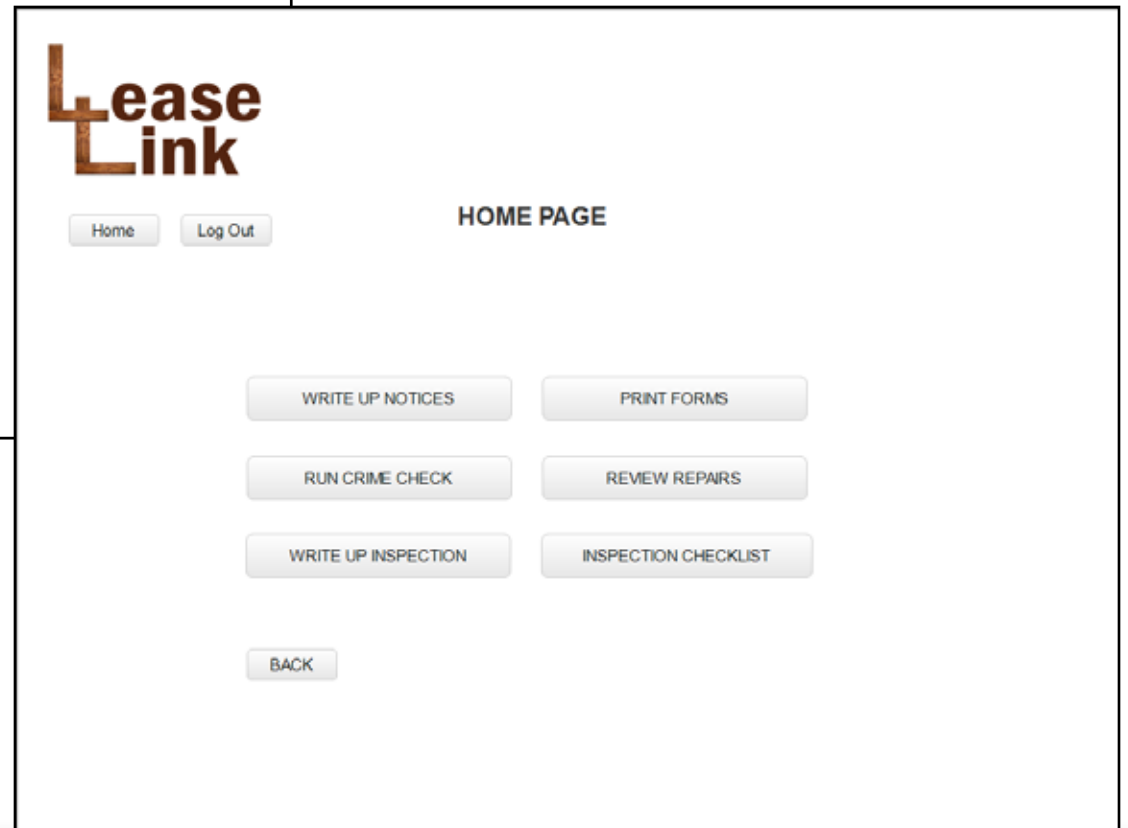
Prototype 1: Personal Computer



The Login Page prototype features the 'Lease Link' logo in the top left corner. The word 'Lease' is in a large, bold, brown font, and 'Link' is in a smaller, bold, brown font below it. To the right of the logo, the word 'LOGIN' is centered in a bold, black, sans-serif font. Below the logo and title, there are three input fields: 'Name' with 'Input' text inside, 'Password' with 'Input' text inside, and 'Title' with a dropdown menu showing 'Manager'. A 'Send' button is located at the bottom of the form.

Login Page

I have found that it is better to create the prototype earlier in the stage of the process because there are so many different things that need to be changed before it is done. This gives me a better idea what connections need to be made and how many more pages need to be created as well as troubleshoot the problems.



The Home Page prototype features the 'Lease Link' logo in the top left corner. Below the logo, there are two buttons: 'Home' and 'Log Out'. To the right of these buttons, the words 'HOME PAGE' are centered in a bold, black, sans-serif font. Below the 'Home' and 'Log Out' buttons, there are six buttons arranged in a 3x2 grid: 'WRITE UP NOTICES', 'PRINT FORMS', 'RUN CRIME CHECK', 'REVIEW REPAIRS', 'WRITE UP INSPECTION', and 'INSPECTION CHECKLIST'. A 'BACK' button is located at the bottom center of the page.

Home Page

A good portion of the possibilities for the manager app will not be explored at this time. The only ones usable here presently are the “

Prototype 1: Personal Computer

Lease Link

Home Log Out

NOTICES

Date: March 1, 2015

Complex: SOUTH Apt: ALL

To: All Tenants

Spring is here and the grass is growing again. This Tuesday we will be mowing the lawns. Please make sure that you have your lawn furniture and other items removed for the convenience of the maintenance man.

Bark

Attach signature

Notice Page

The notices page will be for the manager to type up the notices that will go out to specified tenants with the possibility to add their personal signature which is kept on file.

Lease Link

Home Log Out

REPAIR LIST

DATE	COMPLEX	APT	PROBLEM	SENT	DONE	APPRD
March 1, 2015	SOUTH	2	Leaking Faucet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 3, 2015	NORTH	9	Spray for bugs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 4, 2015	NORTH	3	Repaint	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 6, 2015	OAK	4	Clogged toilet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 7, 2015	SOUTH	20	Leaking lightswitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 7, 2015	OAK	12	Wash machine making noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 10, 2015	SOUTH	2	Mow lawns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

See More See Previous

Repair List Page

The repair list will lead the manager to areas that need maintenance attention, have been accomplished or need approval for being accomplished for payment.

Prototype 1: Personal Computer

Lease Link

Home Log Out

REPAIR PAGE

Reported: March 1, 2015

Complex: South Apt 02

Tenant: Louise

The bathroom faucet is leaking around the handles.

BACK

Approve and send for repairs

Repair Page

This repair page would be the one sent from the tenant requesting a repair at their apartment. The manager needs to review and approve the repair before it goes to the repair person to be fixed.

Lease Link

Home Log Out

WORK APPROVAL

Reported: March 1, 2015

Complex: South Apt 02

Problem: Leaking faucet

Before After

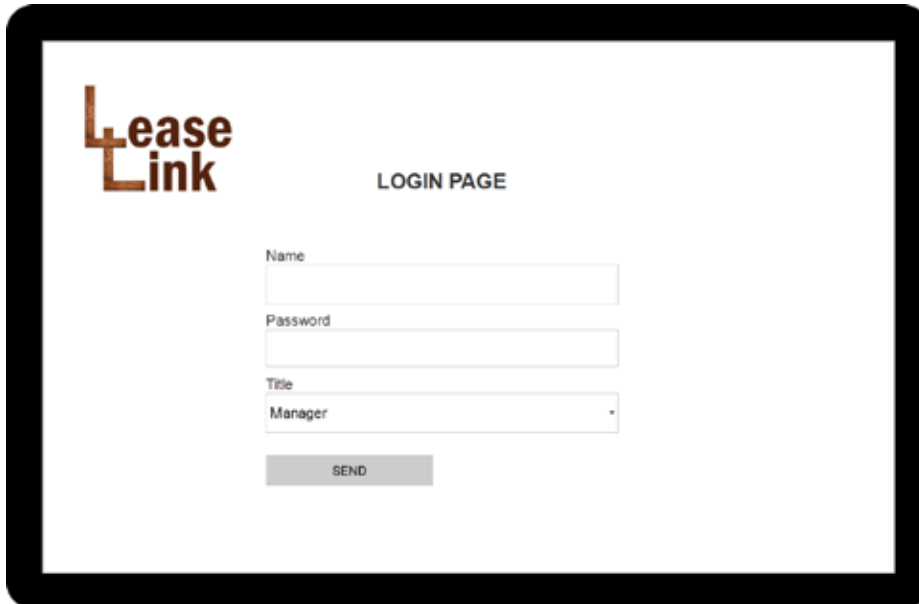
X X

BACK Approve repairs

Work Approval Page

After the repair has been made and approved by the tenant as being completed, it comes back to the manager for the final say so. This confirms that it was done and clears him for payment.

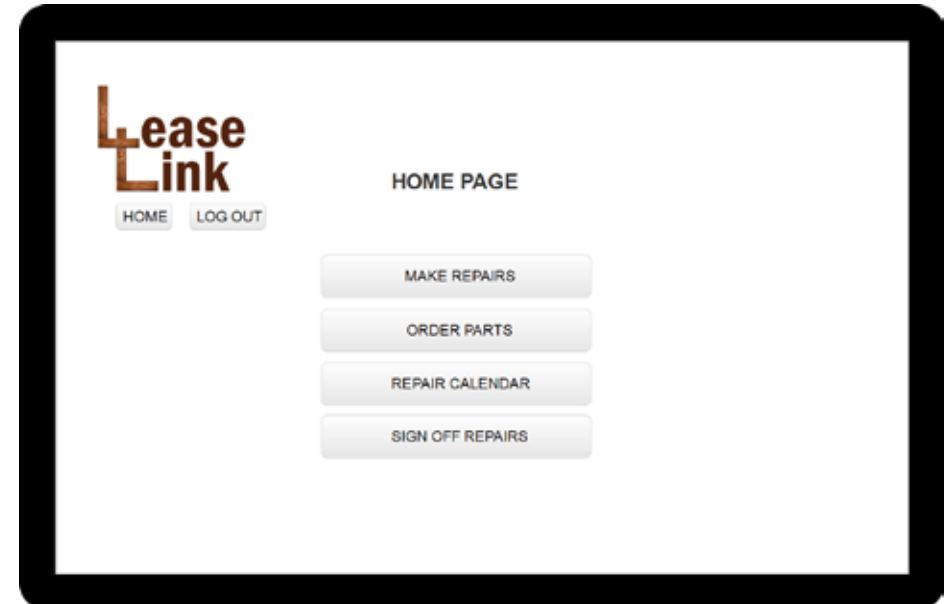
Prototype 1: Tablet



The login page features the Lease Link logo in the top left. The title "LOGIN PAGE" is centered. Below the logo are three input fields: "Name", "Password", and "Title". The "Title" field is a dropdown menu with "Manager" selected. A "SEND" button is located at the bottom.

Login Page

The login page is similar on all the devices.



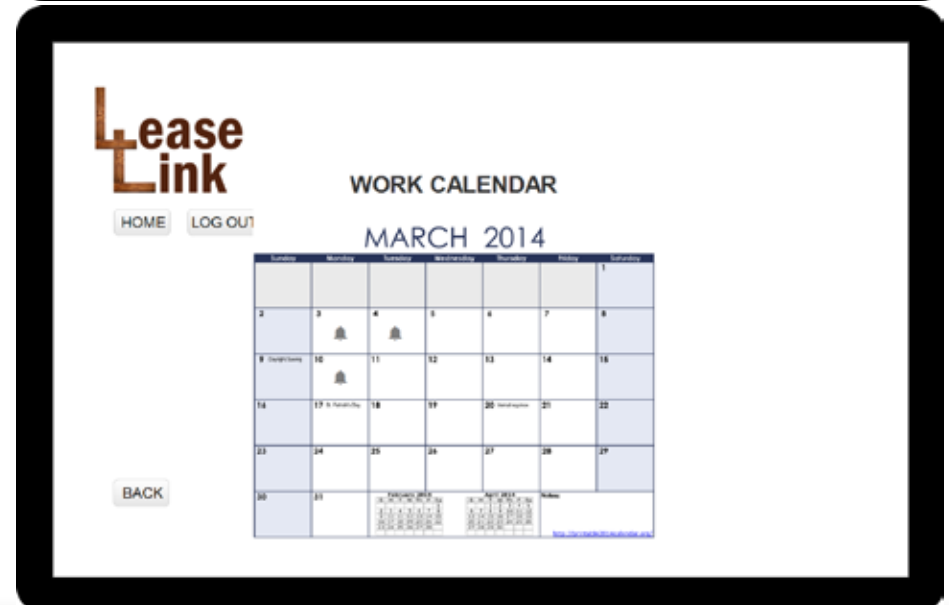
The home page features the Lease Link logo in the top left. Below the logo are two buttons: "HOME" and "LOG OUT". The title "HOME PAGE" is centered. Below the title are four stacked buttons: "MAKE REPAIRS", "ORDER PARTS", "REPAIR CALENDAR", and "SIGN OFF REPAIRS".

Home Page

The home page is specific to the repair/maintenance duties.

Work Calendar Page

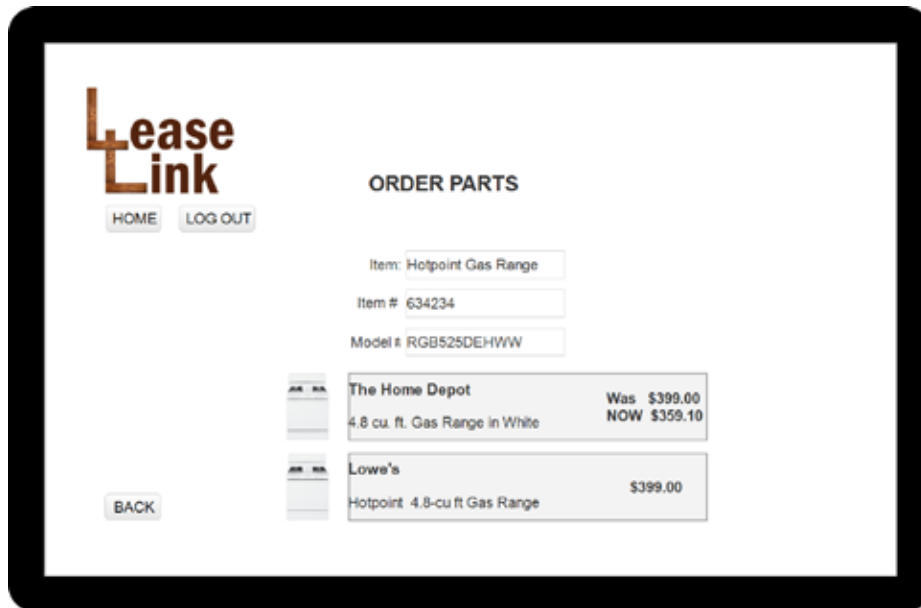
The work calendar gives him/her the month at a glance. The bells on each date are reminders with specific information about what is coming up on that date.



The work calendar page features the Lease Link logo in the top left. Below the logo are two buttons: "HOME" and "LOG OUT". The title "WORK CALENDAR" is centered, followed by "MARCH 2014". Below the title is a calendar grid for March 2014. The grid shows dates from 1 to 31. Bells are present on dates 4, 10, and 11. A "BACK" button is located at the bottom left. The calendar grid is as follows:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Prototype 1: Tablet



Order Parts Page

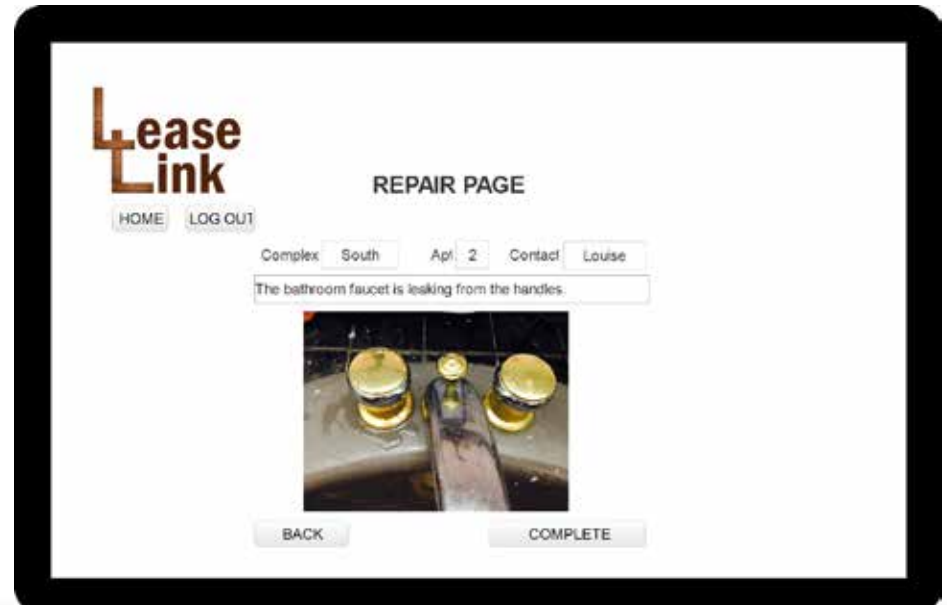
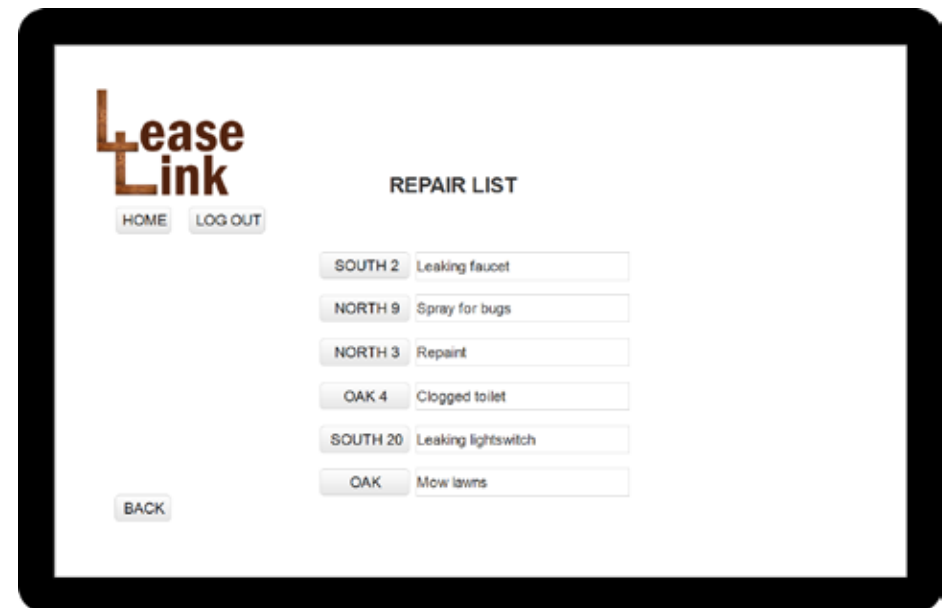
Here is the order page where the repair guy can order from the local repair store with the prices the item generates for that store.

Repair List Page

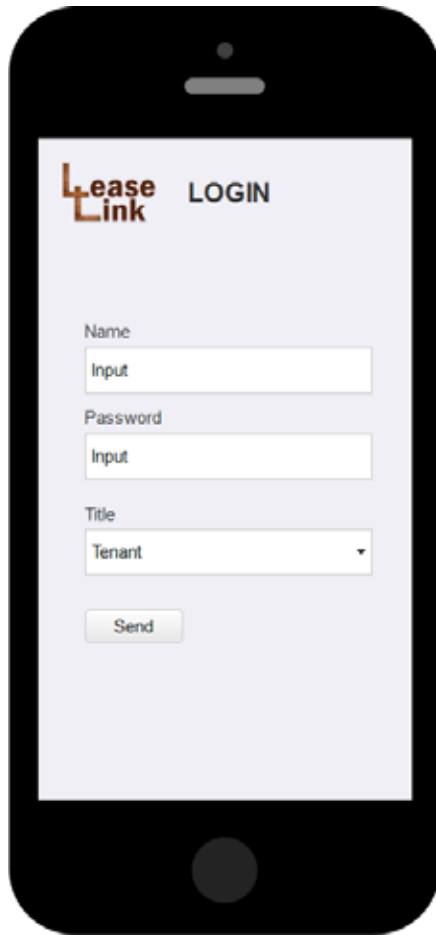
The repair list gives the most current items to do.

Repair Page

The repair page shows the complaint needing his/her attention.

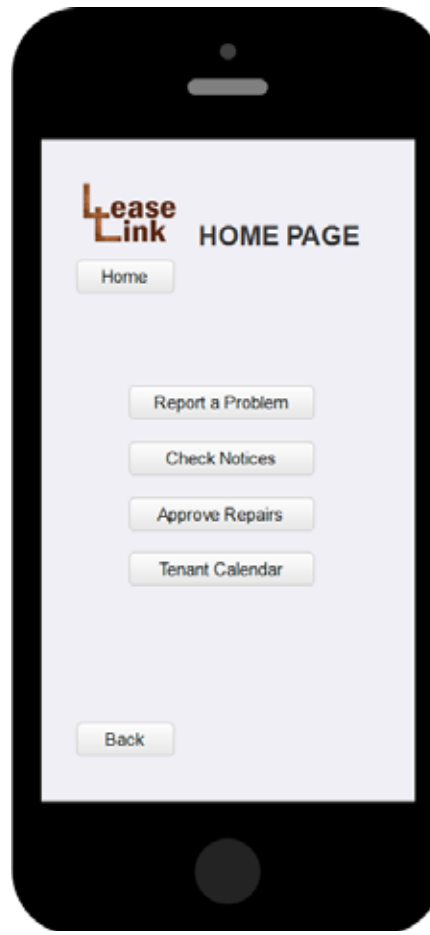


Prototype 1: Smart Phone



Login Page

The login page is similar on all the devices.



Home Page

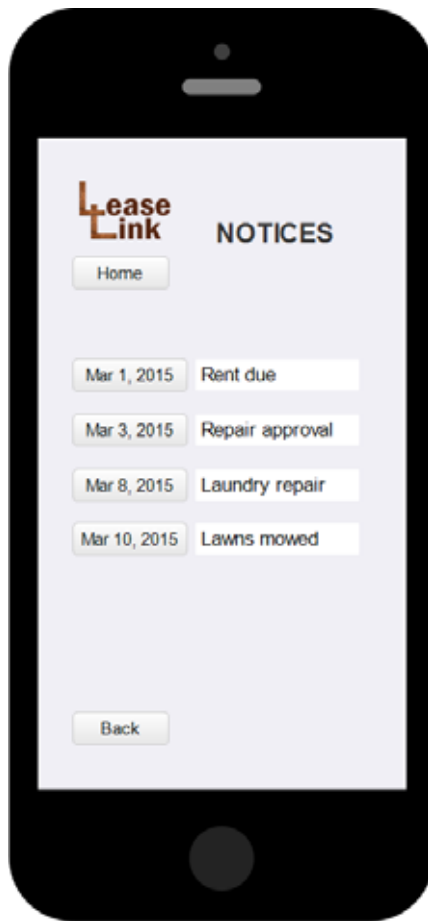
The home page is specific to the tenant possibilities.



Calendar Page

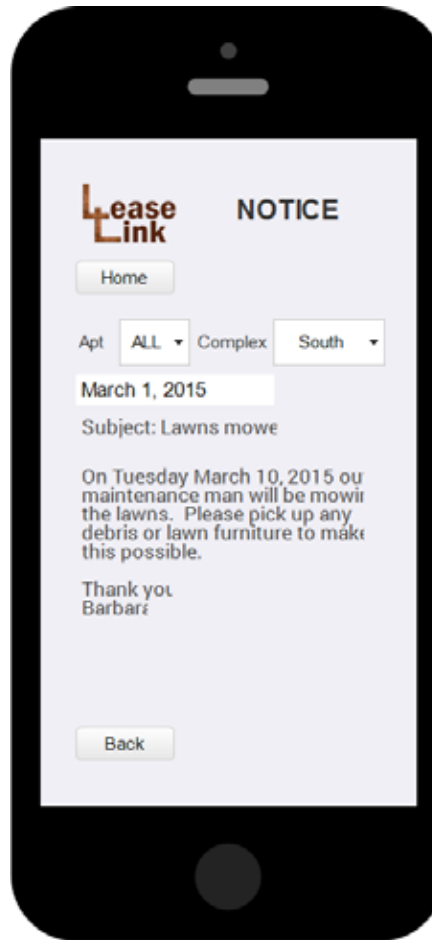
The calendar gives him/her the month at a glance. The stars on each date are reminders with specific information about what is coming up.

Prototype 1: Smart Phone



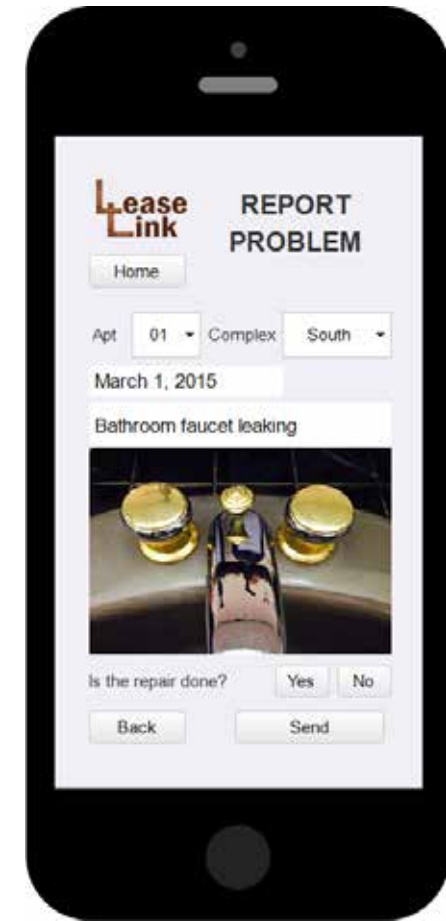
Notices Page

The notices page lists the latest notices received. This is for the tenant to go back and reread what the manager has sent or reminders.



Notice Page

The notice page is a specific notice which they can read.



Repair Done Page

The repair done page is the final repair after it is completed and needs the tenant approval before it goes to the manager.

Usability Test 03: Personal Computer

Apartment Manager Scenarios

1. Review all the recent repairs. Pull up the newest repair and approve for repair.
2. Recently the maintenance man made a repair, review and approve it.
3. Write up a notice to all the tenants about the maintenance man mowing Tuesday March 10th at the South complex.

Scenario 1 Results

On the notices page, the signature pops up before clicking 'attach signature.'

The newest repair appears to be March 10th. It needs to be March 7th, leaking light switch.

Scenario 2 Results

Change date for March 7th washing machine.

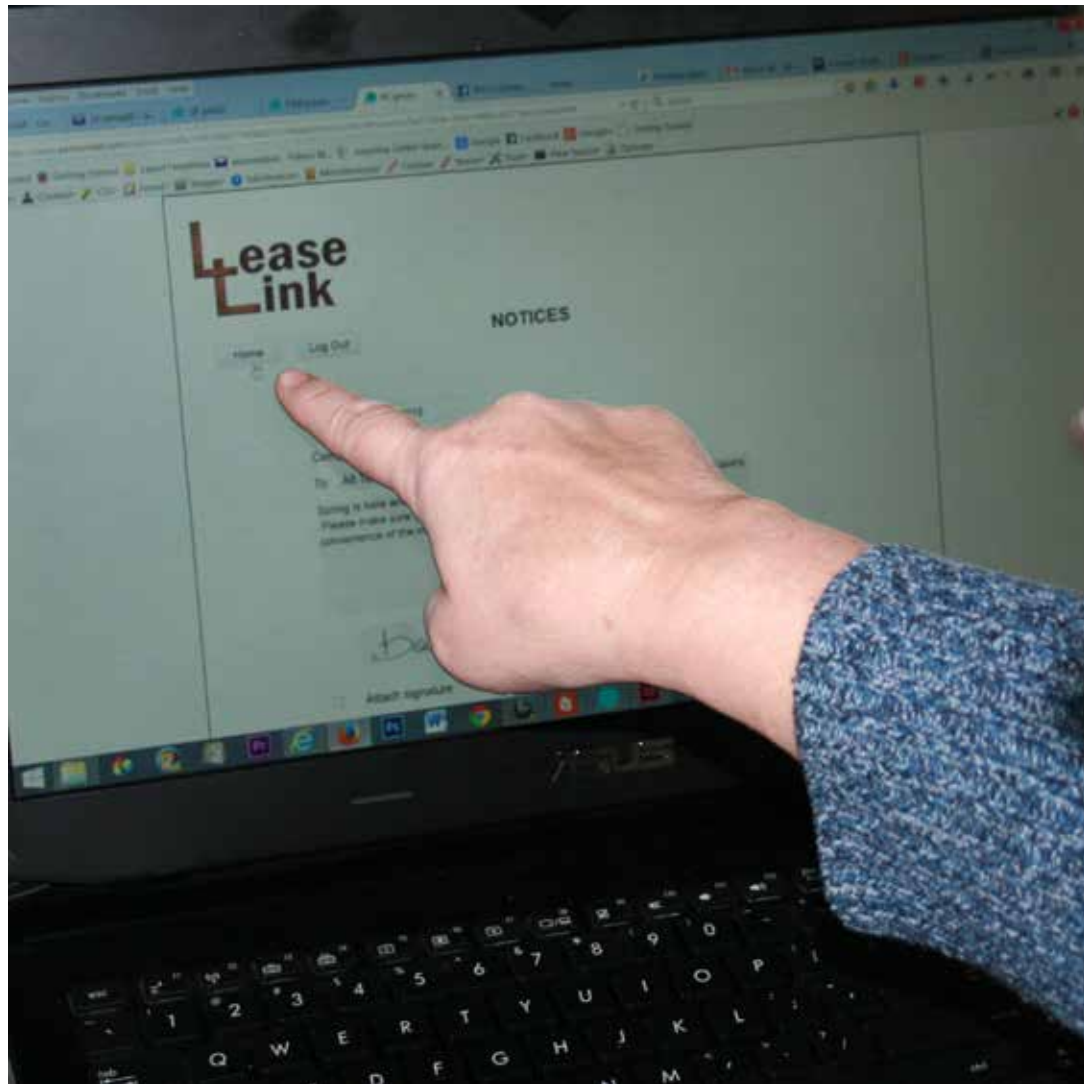
March 1st and 7th need send buttons on the repair pages. And move back button on the 7th.

The repair list page needs checkmarks in the boxes that are done.

Scenario 3 Results

The notices will not allow user to write the notice.

The signature needs to be attached in scenario.



Prototype Link: <https://www.justinmind.com/usernote/tests/13811681/14458827/14458869/index.html#/screens/d12245cc-1680-458d-89dd-4f0d7fb22724>

Usability Test 03: Tablet

Maintenance Man Scenarios

1. Order a new stove for an apartment. The manager has approved a Hotpoint Gas Range for an apartment.
2. From the repair list, review and repair the first item on the list.
3. Complete the repair and sign it off with a picture attached.

Scenario 1 Results

Can't enter input into the boxes to order parts.

Love the order parts page!

Scenario 2 Results

'Make repairs' should be clearer, ie. 'repair list'.

And the add picture! Good job. And your calendar! No problems. It seemed like everything worked.

Scenario 3 Results

The complete repairs page needs a 'send' button. When you click in the signature box, it sends. The 'complete' in repair box is slightly confusing.



Prototype Link: <https://www.justinmind.com/usernote/tests/13811681/14458827/14458851/index.html#/screens/d12245cc-1680-458d-89dd-4f0d7fb22724>

Usability Test 03: Smart Phone

Tenant Scenarios

1. Report a leaking faucet in the bathroom for your apartment #2 South.
2. Check your calendar for any new items.
3. Check notices and reread the one sent for March 10th.

Scenario 1 Results

How do I know the report problem thing sent? What images are you adding to those white boxes?

The send button doesn't work.

Scenario 2 Results

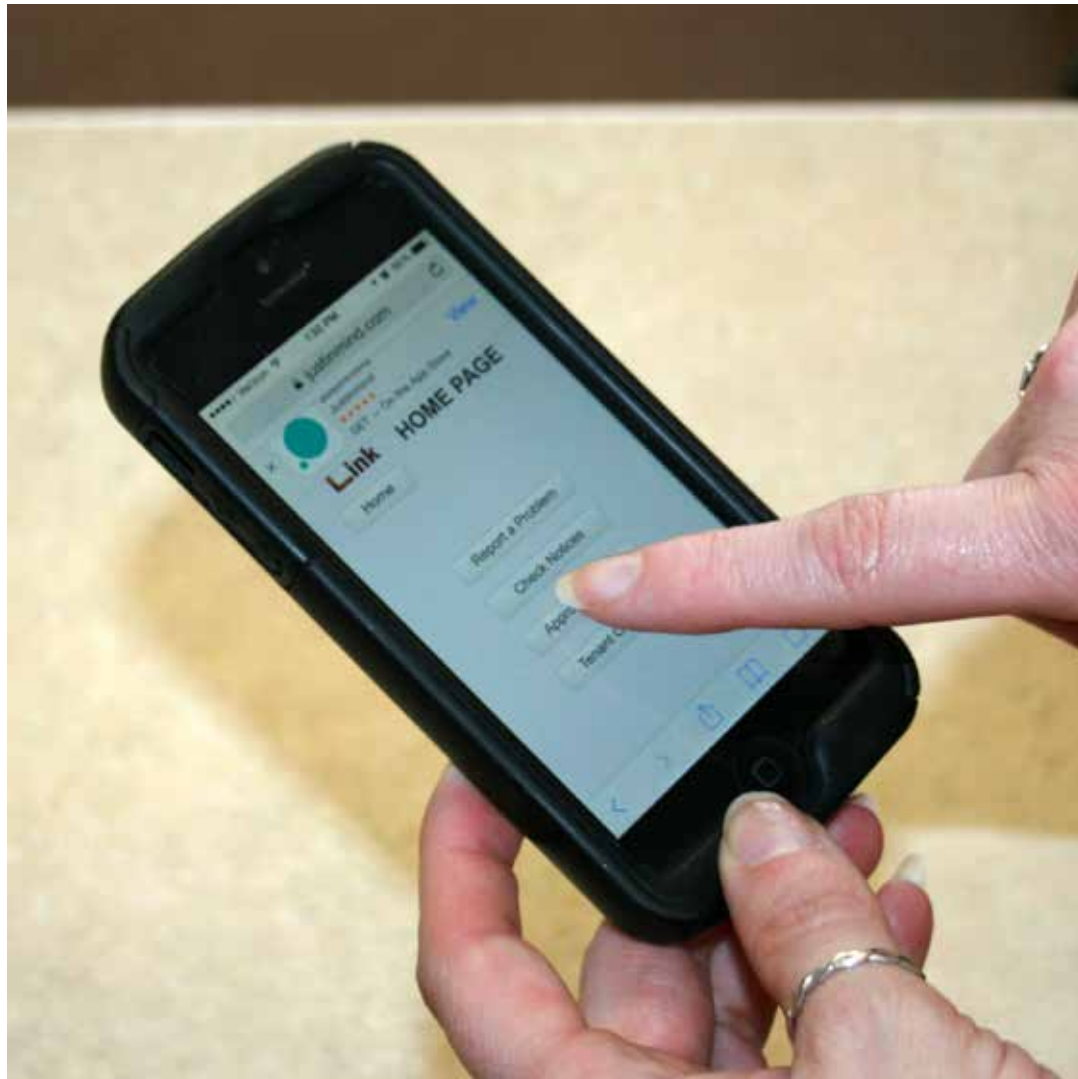
It would help to have the calendar dates on the popup notices.

Scenario 3 Results

Home and back button doesn't work on the notice screen. The logo is also missing.

The approval button needs to be added to the scenarios.

The app needs the bars across the top

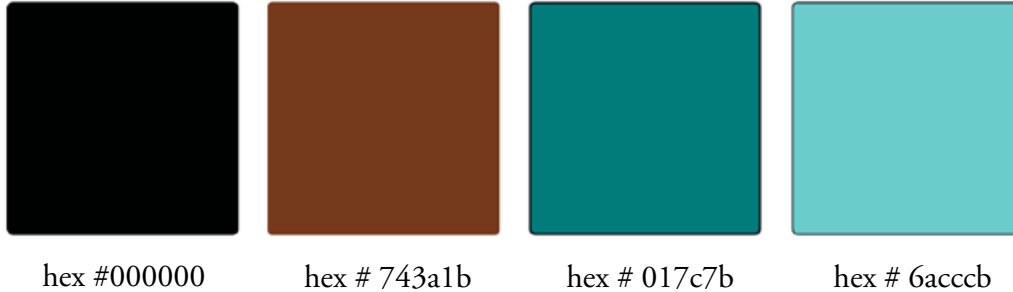


Prototype Link:

<https://www.justinmind.com/usernote/tests/13811681/14458827/14458829/index.html>

Form and Features Styling

Color Palette style



Type style

Headers: *Arial Bold*

abcdefghijklmnopqrstuvwxy

1234567890-.,/;'[]`

ABCDEFGHIJKLMN OPQRSTUVWXYZ

Body copy: *Arial*

abcdefghijklmnopqrstuvwxy

1234567890-.,/;'[]`

ABCDEFGHIJKLMN OPQRSTUVWXYZ

Logo style



The logo was created with wood boards making the L's. The L's are linked together for a play on words. Wood was chosen since this app deals with a dwelling and repairs which are mostly made of wood and cement.

Prototype 2: Personal Computer

The screenshot shows the 'Lease Link' logo in the top left. Below it are 'Home' and 'Log Out' buttons. The page title is 'NOTICES'. The form includes a 'Date:' text input, a 'Complex' dropdown menu with 'SOUTH' selected, an 'Apt' dropdown menu with 'ALL' selected, and a 'To:' text input. A large empty text area is provided for the notice content. At the bottom left, there is a checkbox labeled 'Attach signature' and a 'Preview' button.

This screenshot shows the 'Lease Link' logo and 'NOTICES' header. The 'Date:' field is filled with 'March 1, 2015'. The 'Complex' dropdown is set to 'South' and the 'Apt' dropdown is set to 'All'. The 'To:' field is filled with 'All Tenants'. The notice text reads: 'Spring is here and the grass is growing again. This Tuesday we will be mowing the lawns. Please make sure that you have your lawn furniture and other items removed for the convenience of the maintenance man.' Below the text is a pre-saved signature that reads 'Bark'. At the bottom, there are 'Send' and 'Redo' buttons.

Notices Page

The signature was not possible in the prototype stage. It was opted for a pre-saved signature that could be inserted when asked for.

Changed the box types in the notice form for the user to write in the boxes

Prototype 2: Personal Computer

Lease Link

Home Log Out REPAIR PAGE

Reported: March 7, 2015
Complex: South Apt 20
Tenant: Hazel
The hall lightswitch has brown water leaking down the wall.

BACK Approve and send for repairs

Repair List Page

Added checkmarks to the items finished on the Repair List page.

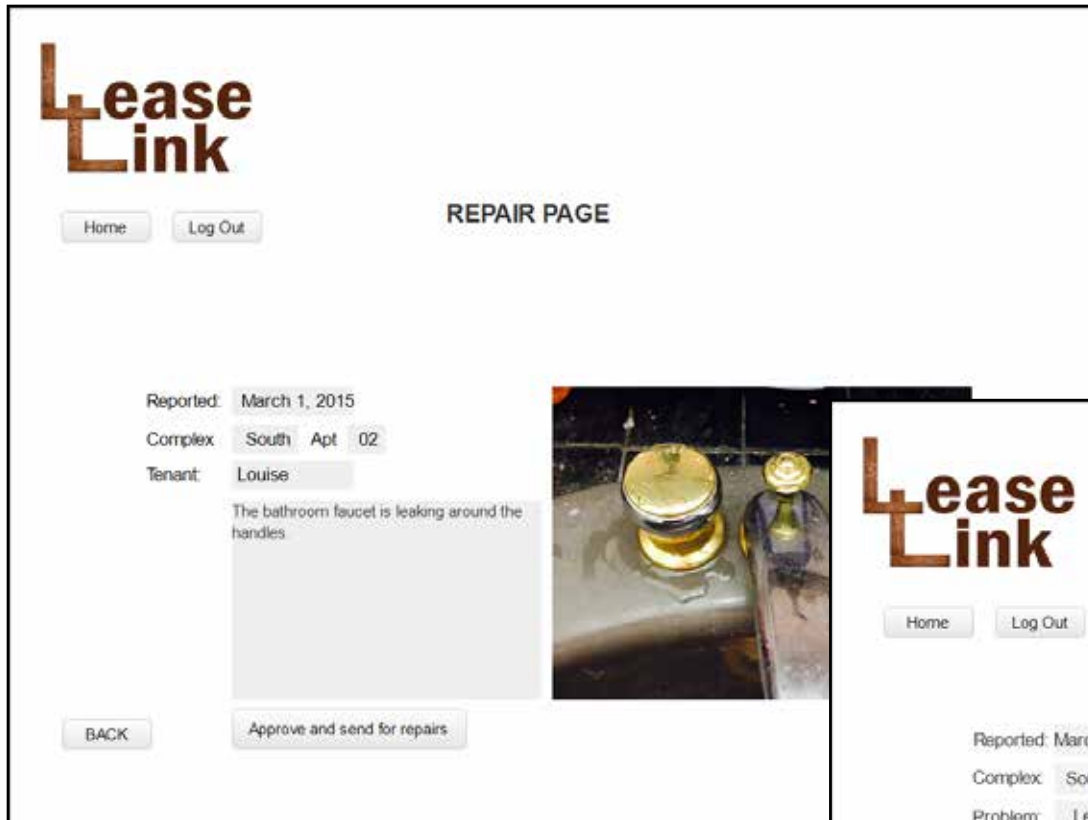
Changed the box types in the notice form for the user to write in the boxes.

Lease Link

Home Log Out REPAIR LIST

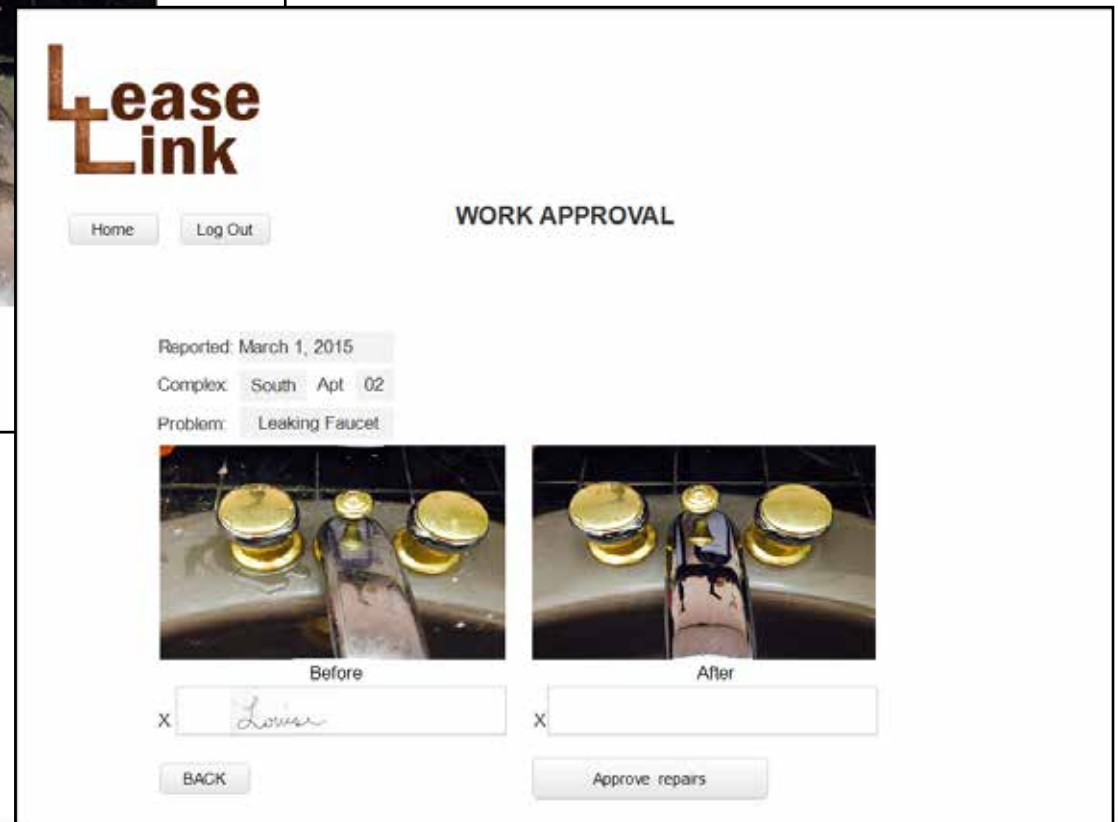
DATE	COMPLEX	APT	PROBLEM	SENT	DONE	APPRD
March 1, 2015	SOUTH	2	Leaking Faucet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
March 3, 2015	NORTH	9	Spray for bugs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 4, 2015	NORTH	3	Repaint	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 6, 2015	OAK	4	Clogged toilet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 6, 2015	OAK	12	Wash machine making noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 7, 2015	SOUTH	20	Leaking lightswitch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
March 10, 2015	SOUTH	2	Mow lawns	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Prototype 2: Personal Computer

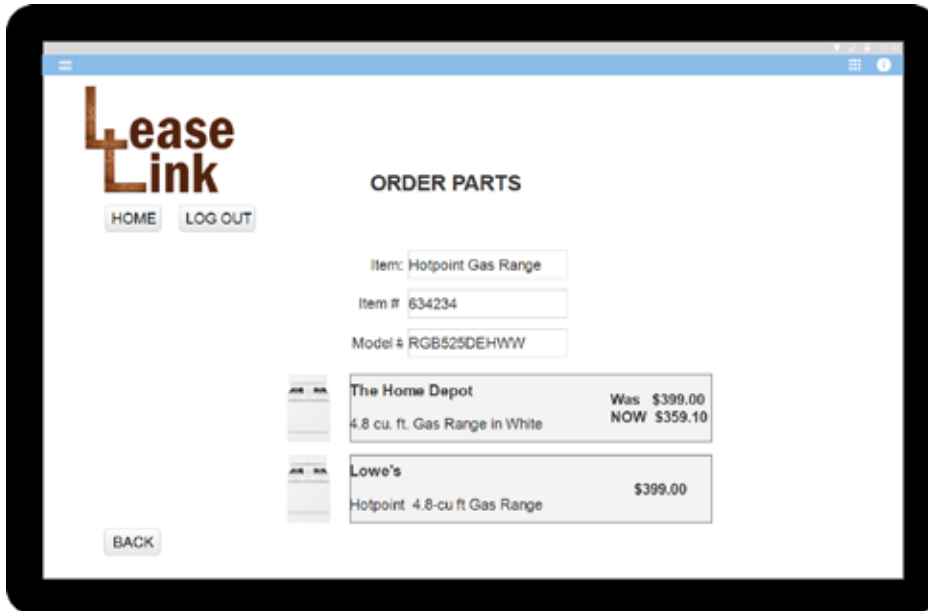


Repair Page

Added send/approve buttons to the repair pages.



Prototype 2: Tablet



Order Parts Page

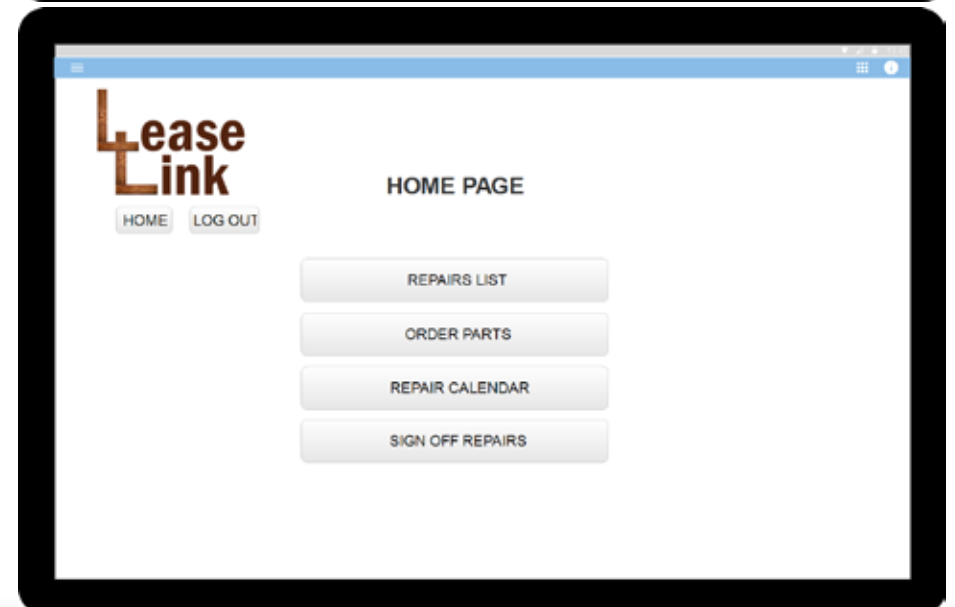
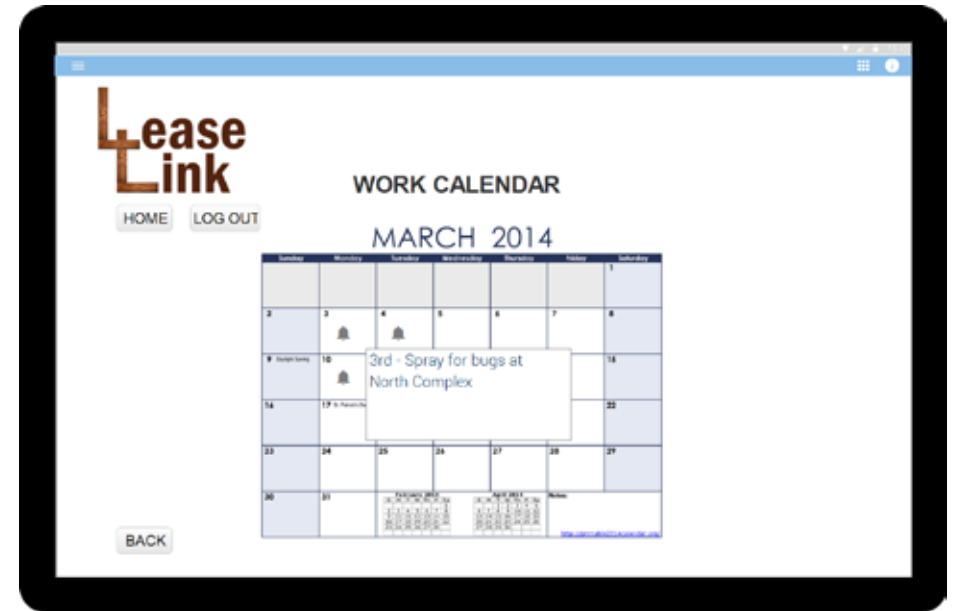
The user was unable to enter data into the order parts page. I changed the section from a label to input which was put in by mistake.

Calendar Page

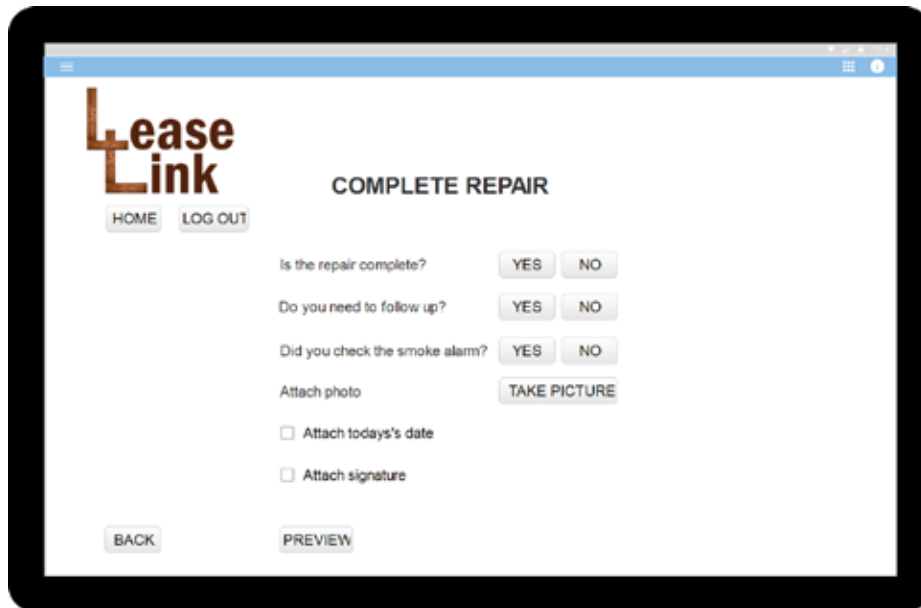
The dates were added to the popup pages to help the user see which date it was displaying.

Home Page

The Make Repairs was changed to Repairs List to make it more clear.



Prototype 2: Tablet



Complete Repair Page

The signature was not possible in the prototype stage. It was opted for a pre-saved signature that could be inserted when asked for.

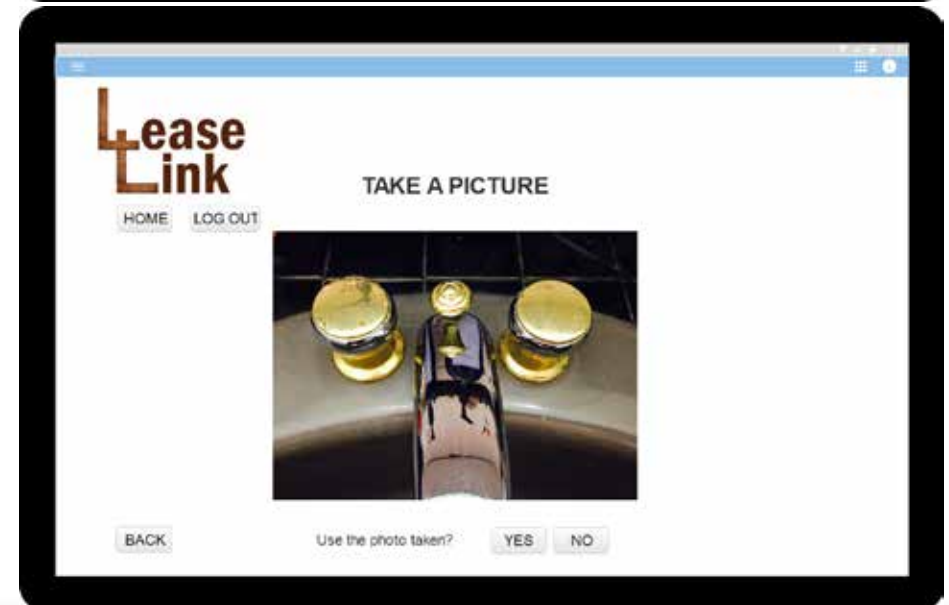
Repair Page

There were a few pages missing the 'send' button. I revamped them at the same time.

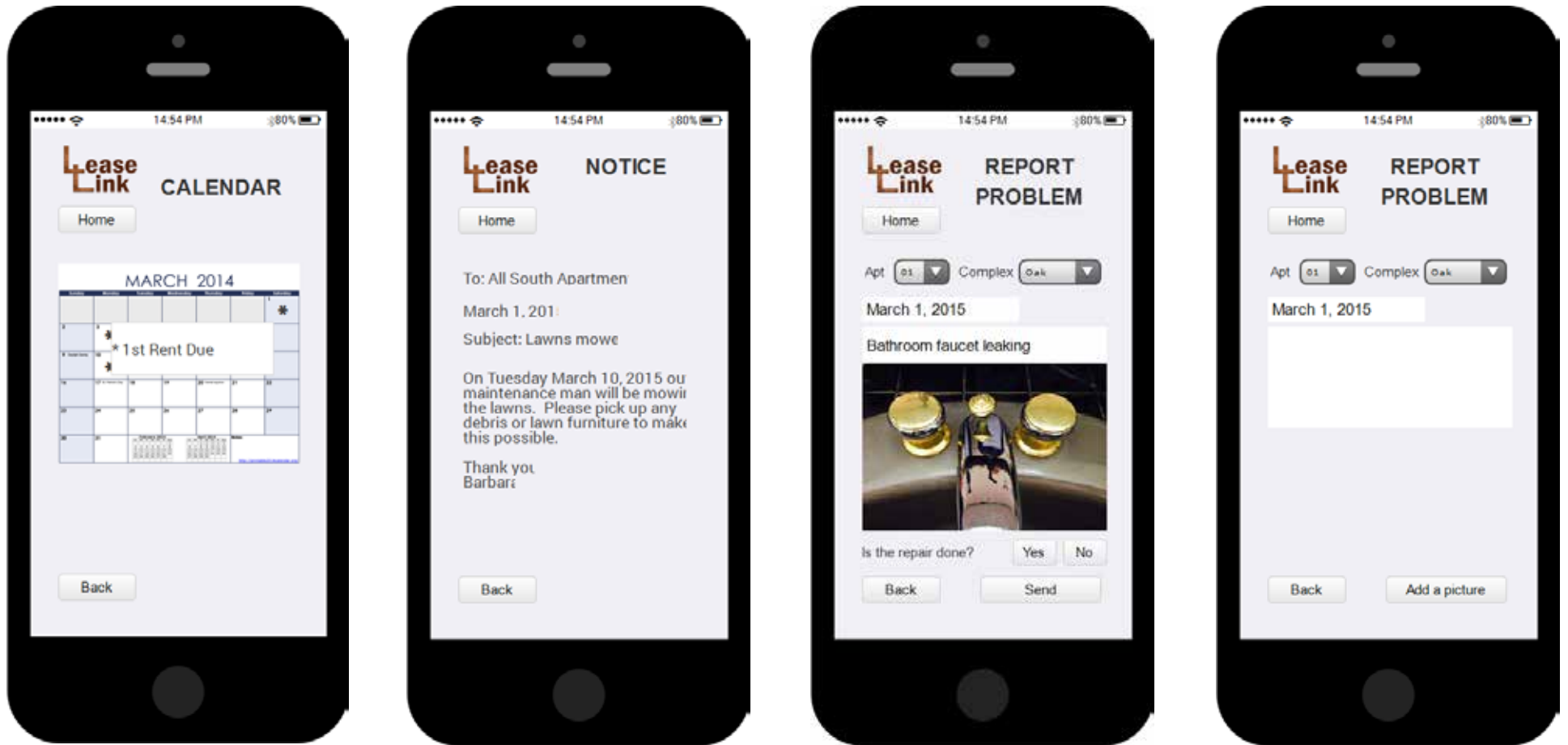
Repair Picture Page

The user now can accept or reject the photo taken.

I added some bars to make it more like a tablet. I built it off the android model.



Prototype 2: Smart Phone



Change Smart Phone Pages

The app bar was added across the top. The iPhone doesn't need a bottom bar since pressing the main button will bring the user back to the main phone homepage.

The notice page was not connected as well as the approval button on the home page.

Added dates on the calendar popups.

Revamped and updated the Repair pages.

Usability Test 04: Personal Computer

Apartment Manager Scenarios

1. Review all the recent repairs. Pull up the repair for March 7th and approve for repair.
2. Recently the maintenance man made a repair, review and approve it.
3. Write up a notice to all the tenants about the maintenance man mowing Tuesday March 10th at the South complex with signature.

Scenario 1 Results

The words “input” still show up in the login page.

When it returns from the repair, the approved box needs to be check marked.

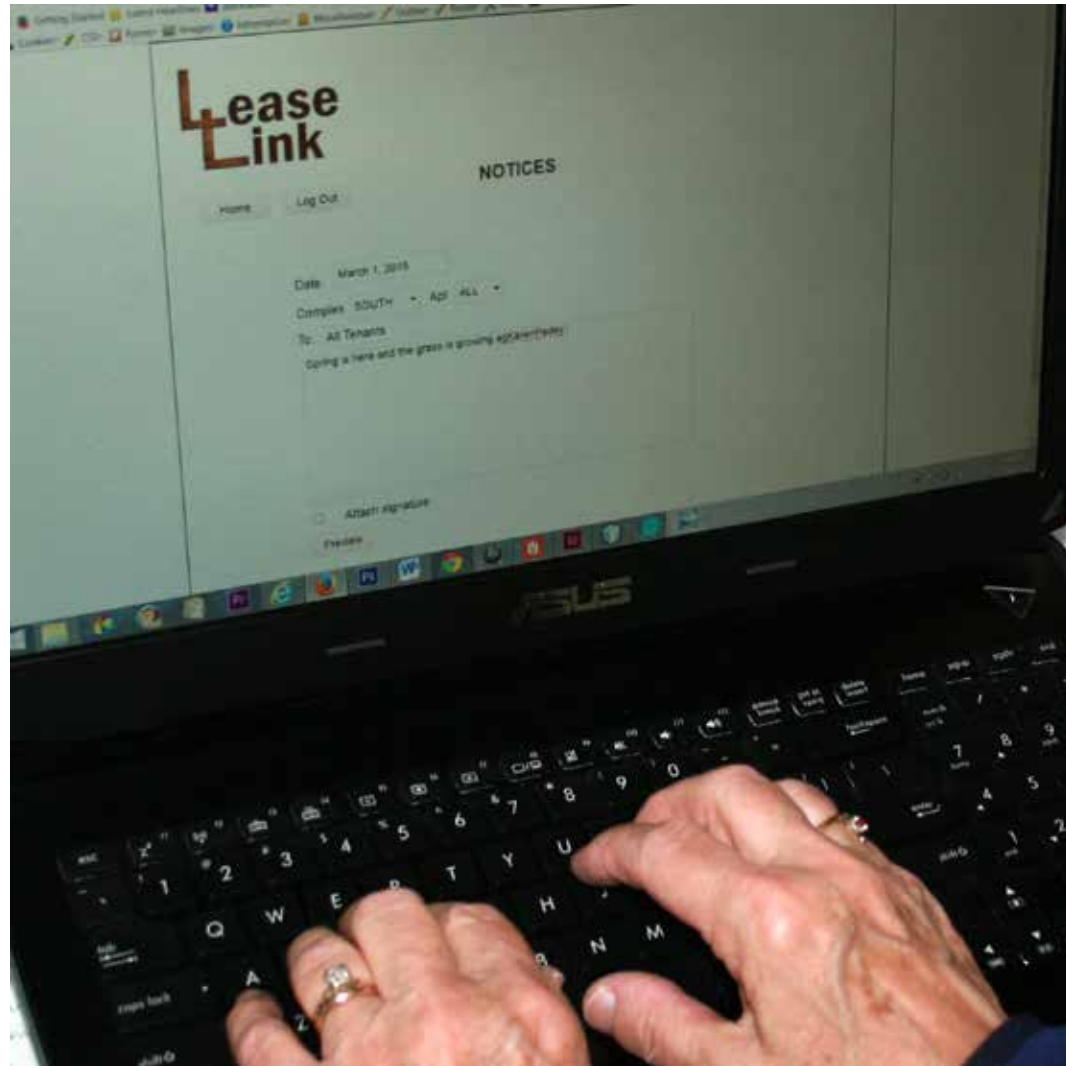
Scenario 2 Results

The repair is missing a signature.

When it returns, the approved box needs to be check marked.

Scenario 3 Results

The pages for this scenario are fine.



Prototype Link: <https://www.justinmind.com/usernote/tests/13811681/14458827/14478950/index.html#/screens/d12245cc-1680-458d-89dd-4f0d7fb22724>

Usability Test 04: Tablet

Maintenance Man Scenarios

1. Order a new stove for an apartment. The manager has approved a Hotpoint Gas Range for an apartment.
2. From the repair list, review and repair the South 20 on the list.
3. Complete the repair South 2 item and sign it off with a picture attached.

Scenario 1 Results

The login page goes directly to the repair list and bypasses the home page.

The user needs a purchase finished page.

Scenario 2 Results

The submit button brings the user back to the picture page. Needs revamped.

Scenario 3 Results

It would be better to switch signature with take picture on the complete repair page.

The submit button brings the user back to the picture page.

The preview button shows pre-repair faucet.



Prototype Link: <https://www.justinmind.com/usernote/tests/13811681/14458827/14478922/index.html#/screens/d12245cc-1680-458d-89dd-4f0d7fb22724>

Usability Test 04: Smart Phone

Tenant Scenarios

1. Report a leaking faucet in the bathroom for your apartment #2 South.
2. Check your calendar for any new items.
3. Check notices and reread the one sent for March 10th.
4. Approve repairs done.

Scenario 1 Results

Prototype does not give the user a chance to fill in the problem.

Scenario 2 Results

It would be better with dashes after the dates.

Scenario 3 Results

Nothing wrong with this page.

Scenario 4 Results

It needs a 'sent' popup.

Not all drop downs the same.



Prototype Link: <https://www.justinmind.com/usernote/tests/13811681/14458827/14479736/index.html#/screens/d12245cc-1680-458d-89dd-4f0d7fb22724>

Branding and Styling

Color Palette style



hex #000000



hex # 743a1b



hex # 017c7b



hex # 6acccb

Type style

Headers: Arial Bold (size 16-22) white on brown

abcdefghijklmnopqrstuvwxy

1234567890-.,/;'[]`

ABCDEFGHIJKLMNPOQRSTUVWXYZ

Body copy: Arial (size 12-16) white & brown

abcdefghijklmnopqrstuvwxy

1234567890-.,/;'[]`

ABCDEFGHIJKLMNPOQRSTUVWXYZ

abcdefghijklmnopqrstuvwxy

1234567890-.,/;'[]`

ABCDEFGHIJKLMNPOQRSTUVWXYZ

Logo style



Keywords

- Efficiency
- Pleasant
- Understandable
- Connectivity
- Cohesive
- Technology
- Useful

App Must Haves:

- Needs to be adaptable
- Simple, uncluttered
- Easy to navigate
- Easy to understand
- Needs to be private

Wood Pattern style



Background wood



Button wood



Sample Wooden Button

Prototype 3: Personal Computer



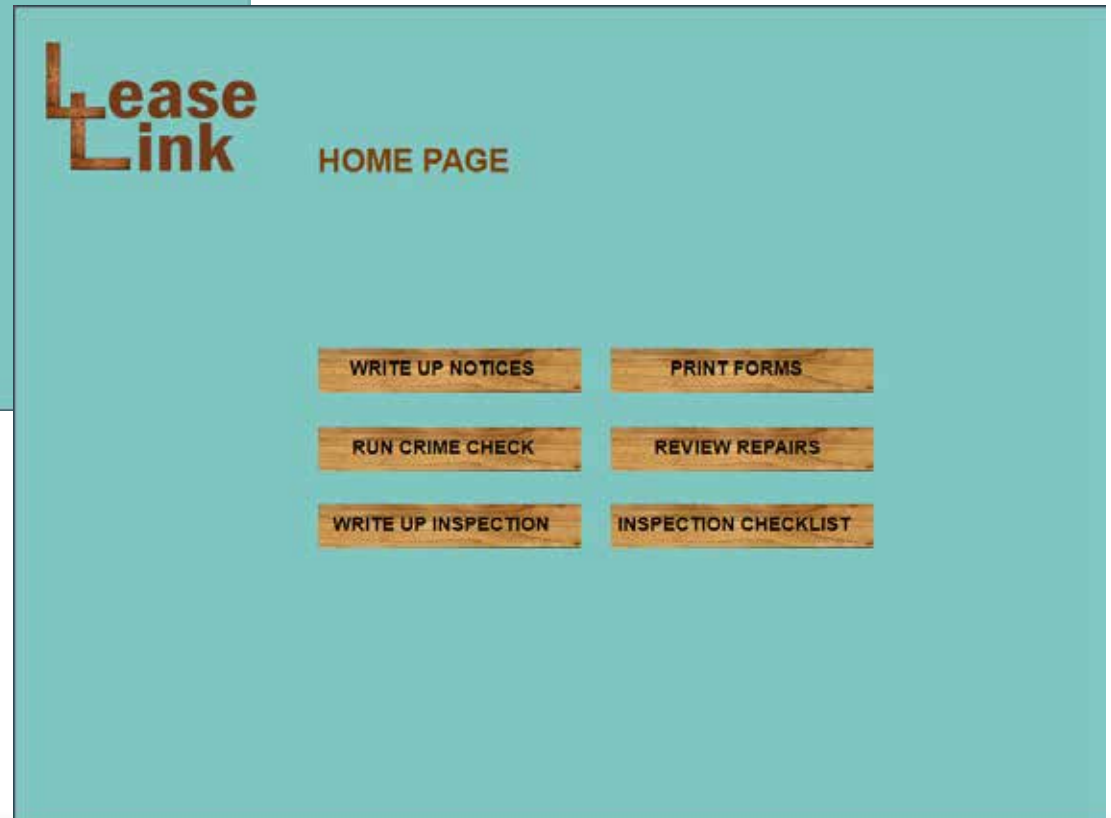
The image shows a login form for 'Lease Link' on a teal background. The logo 'Lease Link' is in the top left. To its right is the word 'LOGIN'. Below the logo are three input fields: 'Name', 'Password', and 'Title'. The 'Title' field has 'Manager' selected. A wooden-textured 'Send' button is at the bottom.

Login Page

The time has come to style the prototype. The background was arranged with a lighter color while the use of boards makes this app unique and creative.

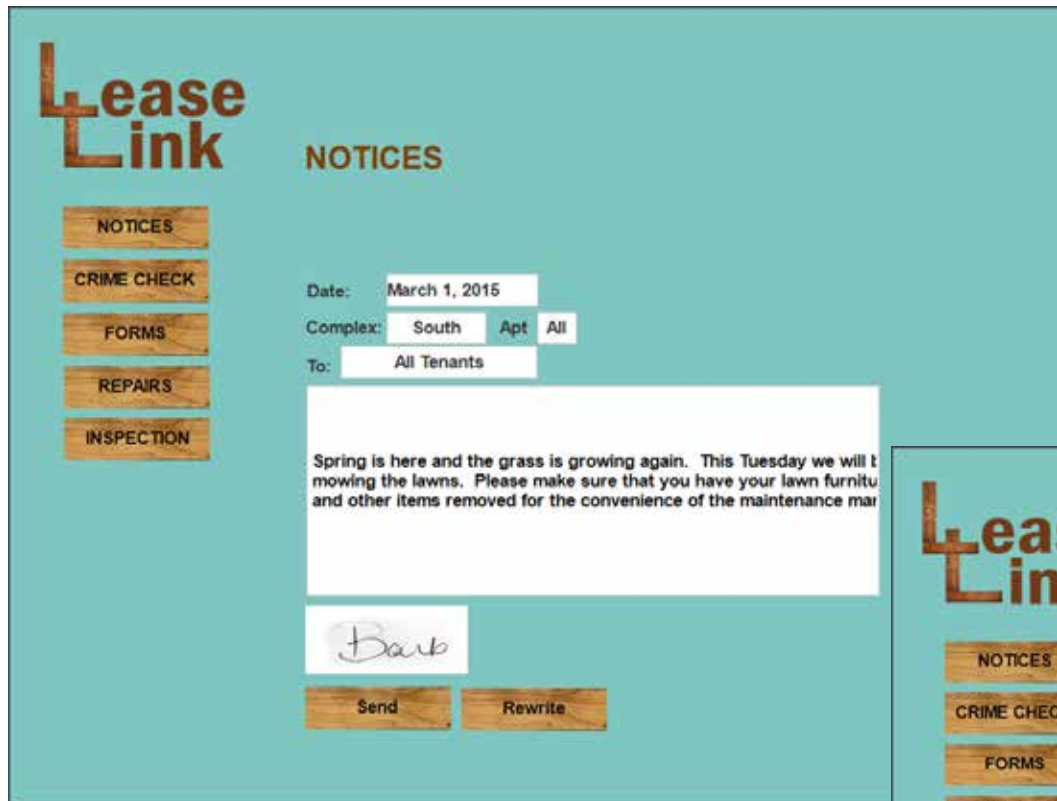
Home Page

By utilizing the boards for the buttons, it gives the app more character. The boards were a take from the subject of repair and the common element in building a place to rent.



The image shows the home page for 'Lease Link' on a teal background. The logo 'Lease Link' is in the top left. To its right is the text 'HOME PAGE'. Below this are six wooden-textured buttons arranged in a 3x2 grid: 'WRITE UP NOTICES', 'PRINT FORMS', 'RUN CRIME CHECK', 'REVIEW REPAIRS', 'WRITE UP INSPECTION', and 'INSPECTION CHECKLIST'.

Prototype 3: Personal Computer



Notice Page

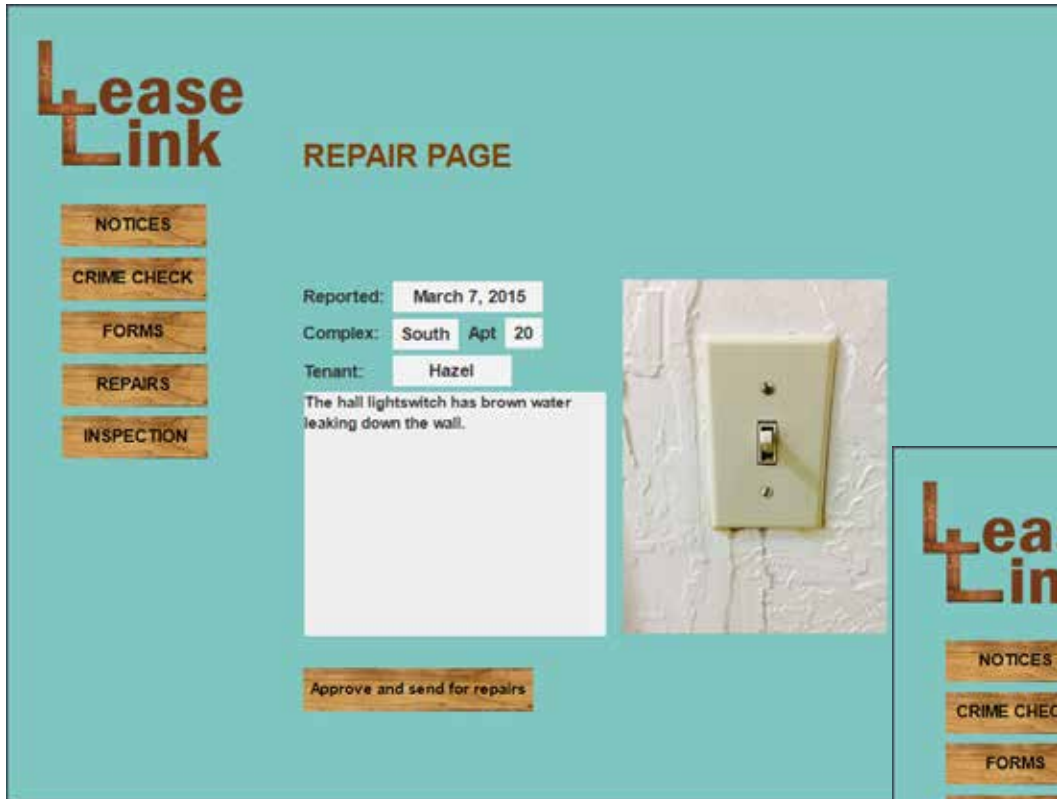
By creating a menu and relocating it down the left side of the page, it still leaves room for the main body of the app.



Repair List Page

The repair list also received the menu on the left as well as all the other key pages on the prototype.

Prototype 3: Personal Computer



Repair Page

All of the pages including the Repair Page were realigned to the left side near the menu.



Work Approval Page

Some of the items on the pages needed to be resized or have the style changed.

Link:

Prototype 3: Tablet



Home Page

The pages for the tablet received the same colors and buttons.

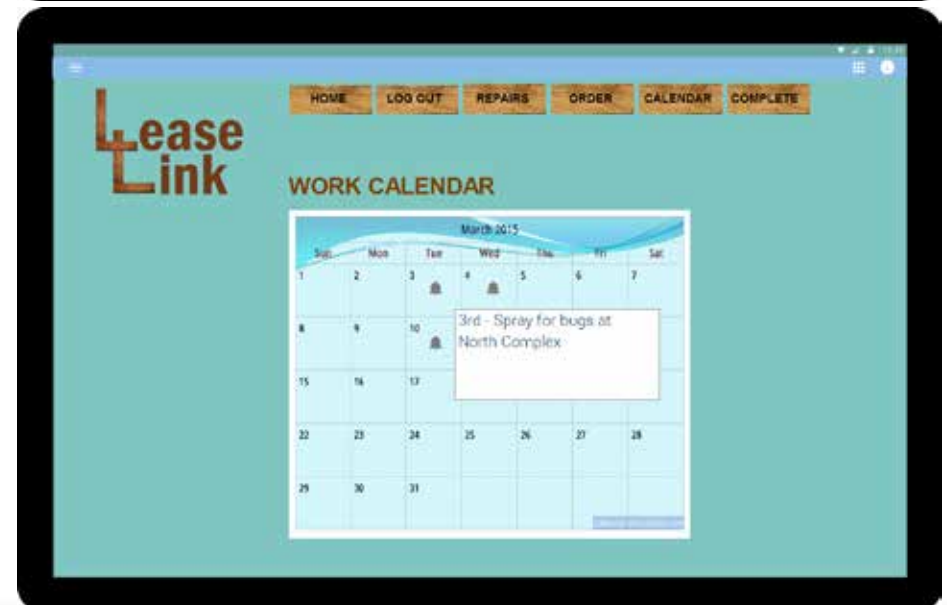
Repair List Page

The repair list shows the new menus across the top. they are all left aligned.



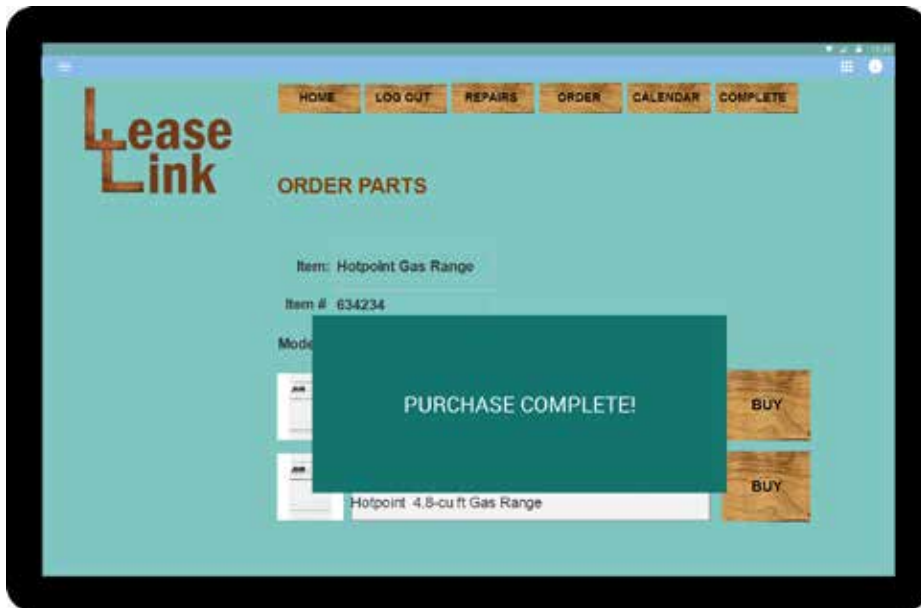
Calendar Page

The calendar got a new up-to-date calendar. The ones in prior prototypes were incorrect.



[Link:](#)

Prototype 3: Tablet



Order Parts Page

The order parts page shows the message popup that have a delay. This will show for a few seconds then reroute the user to the home page.

Complete Repair Page

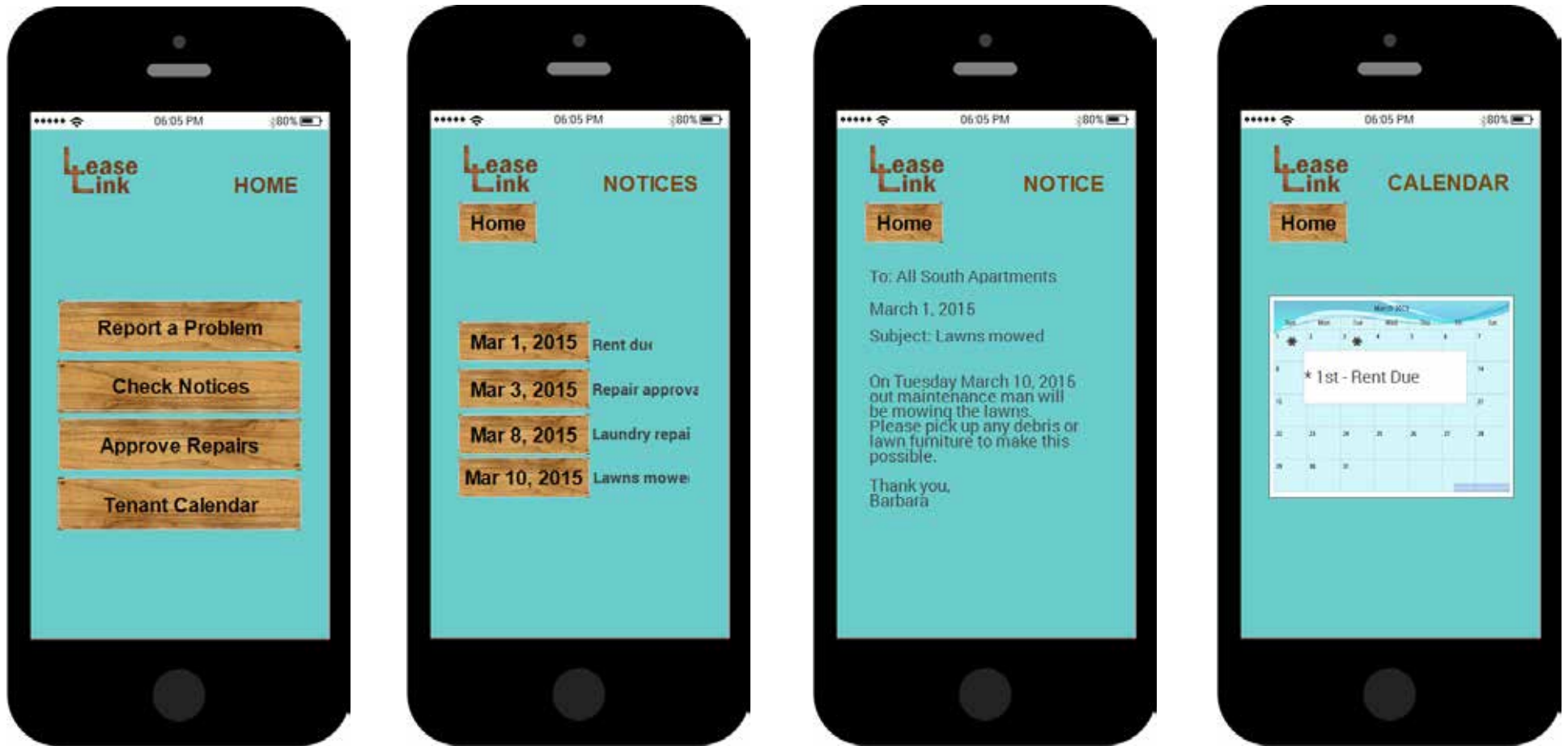
Again, another view of the new style of pages.

Repair Page

Some of the text was backed by white to show which fields could be altered.



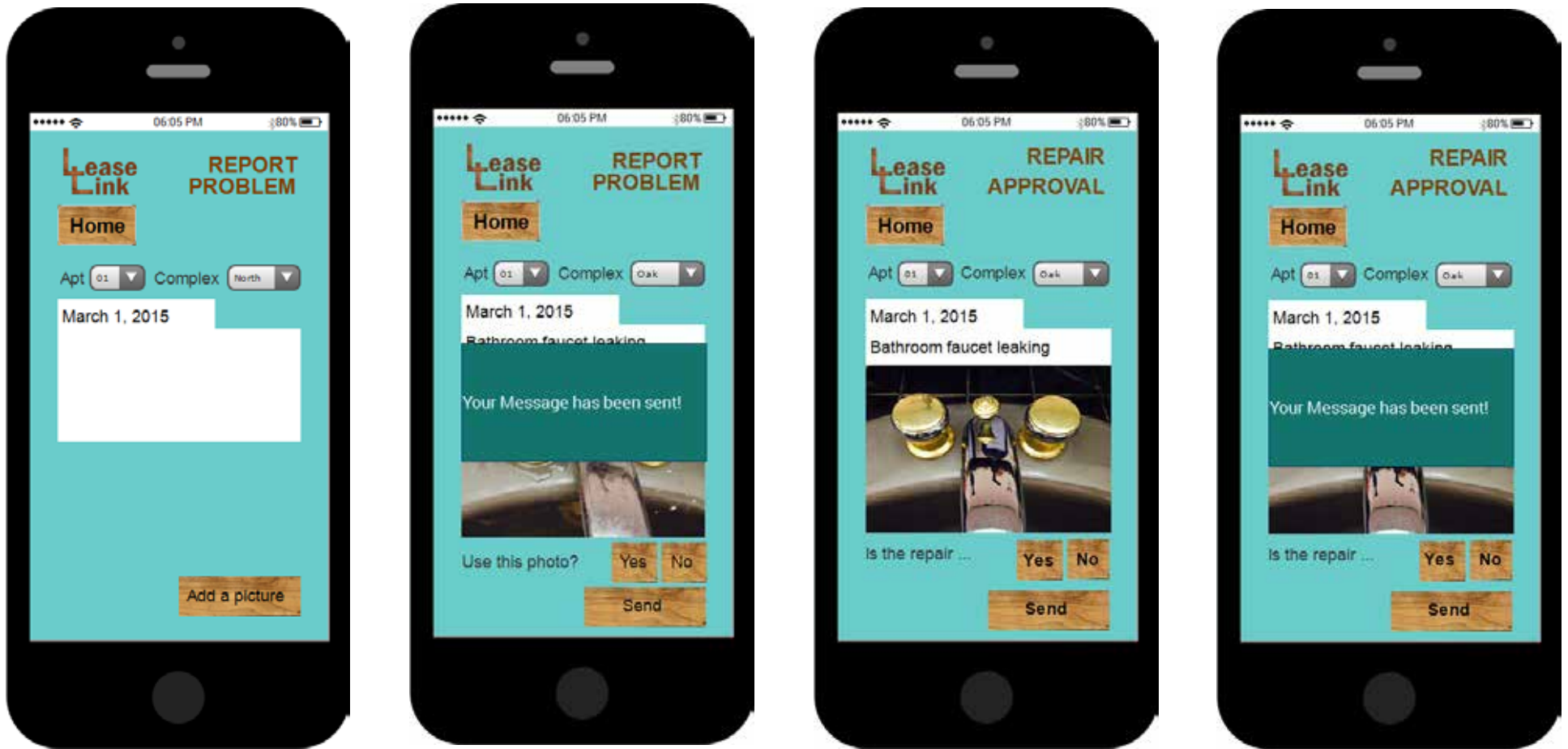
Prototype 3: Tablet



Tablet Pages

Due to the size of the smart phone screen, it ade it unreasonable to add a menu when the home button would be sufficient to get the user back to the menu items. The Home Notices, and Calendar pages shown here display some of the changes. made.

Prototype 3: Tablet



Tablet Pages continued

This shows the before and after of the Report Problem and Repair Approval pages. Each of these shows show the way the popup will show up for a few seconds displaying the verification that the message was sent.

Link:

Professional Apps by Dawn Grow

Usability Test 05: Personal Computer

Apartment Manager Scenarios

1. Review all the recent repairs. Pull up the repair for March 7th and approve for repair.
2. Recently the maintenance man made a repair, review and approve it.
3. Write up a notice to all the tenants about the maintenance man mowing Tuesday March 10th at the South complex with signature.

Scenario 1 Results

The login button needs wording changed.

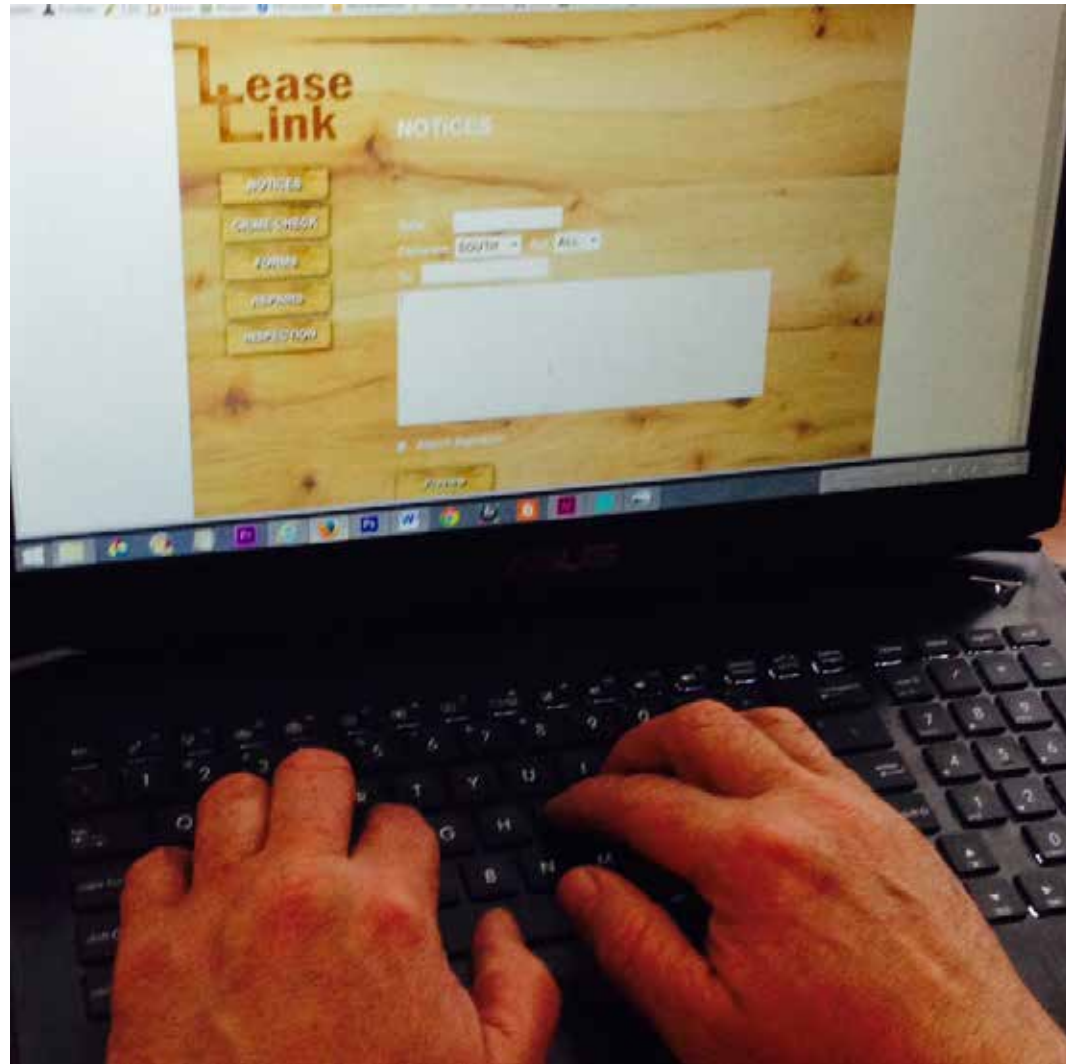
The scenario seems to be working well.

Scenario 2 Results

This scenario seems to be fine.

Scenario 3 Results

The notice page has a problem, it only shows text field with no way to go anywhere else. The same problem pops in the March 10th repair.



Usability Test 05: Tablet

Maintenance Man Scenarios

1. Order a new stove for an apartment. The manager has approved a Hotpoint Gas Range for an apartment.
2. From the repair list, review and repair the South 20 on the list.
3. Complete the repair South 2 item and sign it off with a picture attached.

Scenario 1 Results

The login page has extra information on the login page that shouldn't be there.

The Login button needs a word change.

“Did I purchase it?” Add ‘buy’.

Scenario 2 Results

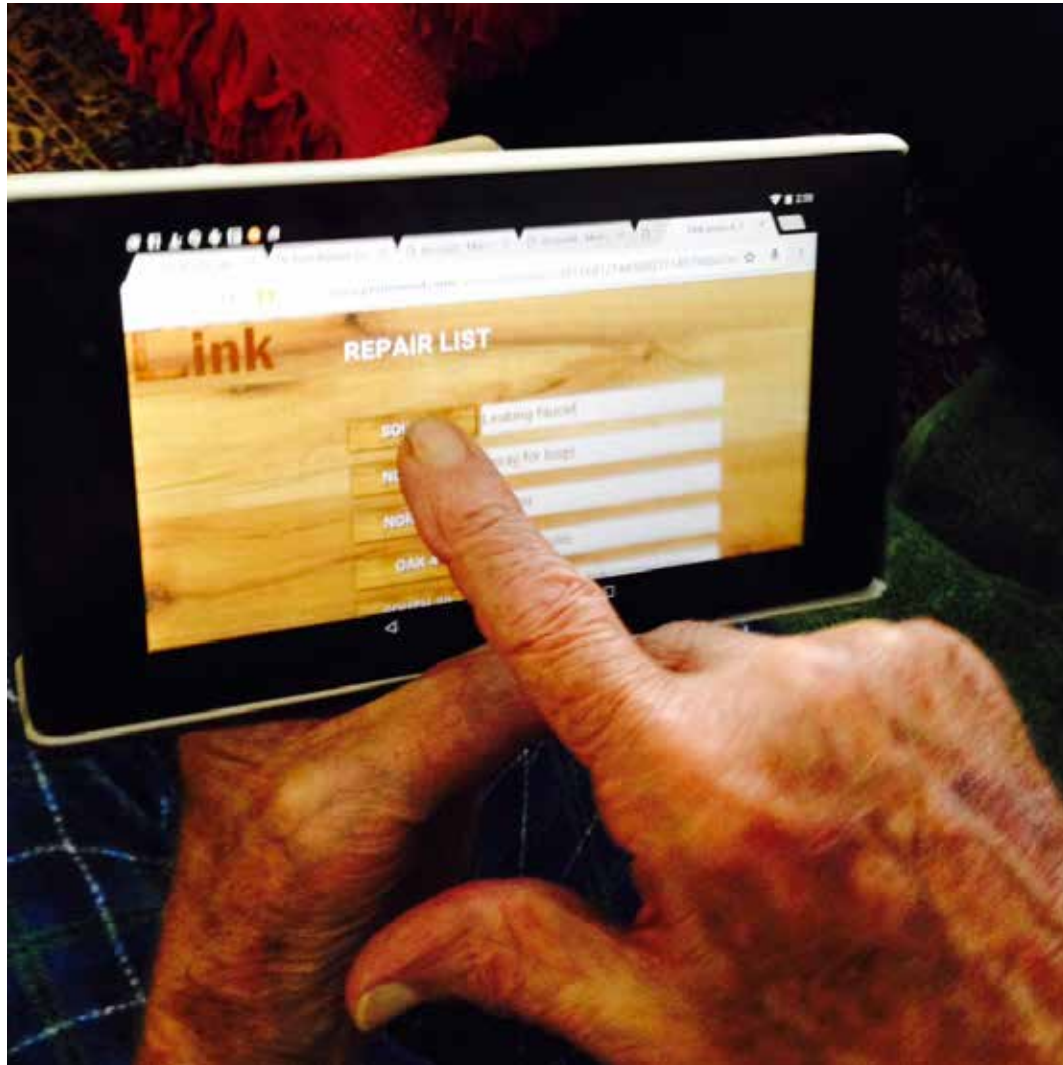
The complete button doesn't do anything? Need to make it connect to something.

The repair questions are redundant when you go to the take picture and come back.

Scenario 3 Results

The complete button at the top of each screen goes to the logout page.

Professional Apps by Dawn Grow



Usability Test 05: Smart Phone

Tenant Scenarios

1. Report a leaking faucet in the bathroom for your apartment #2 South.
2. Check your calendar for any new items.
3. Check notices and reread the one sent for March 10th.
4. Approve repairs done.

Scenario 1 Results

Login needs wording fix.

Random text showing up in between screens.

Scenario 2 Results

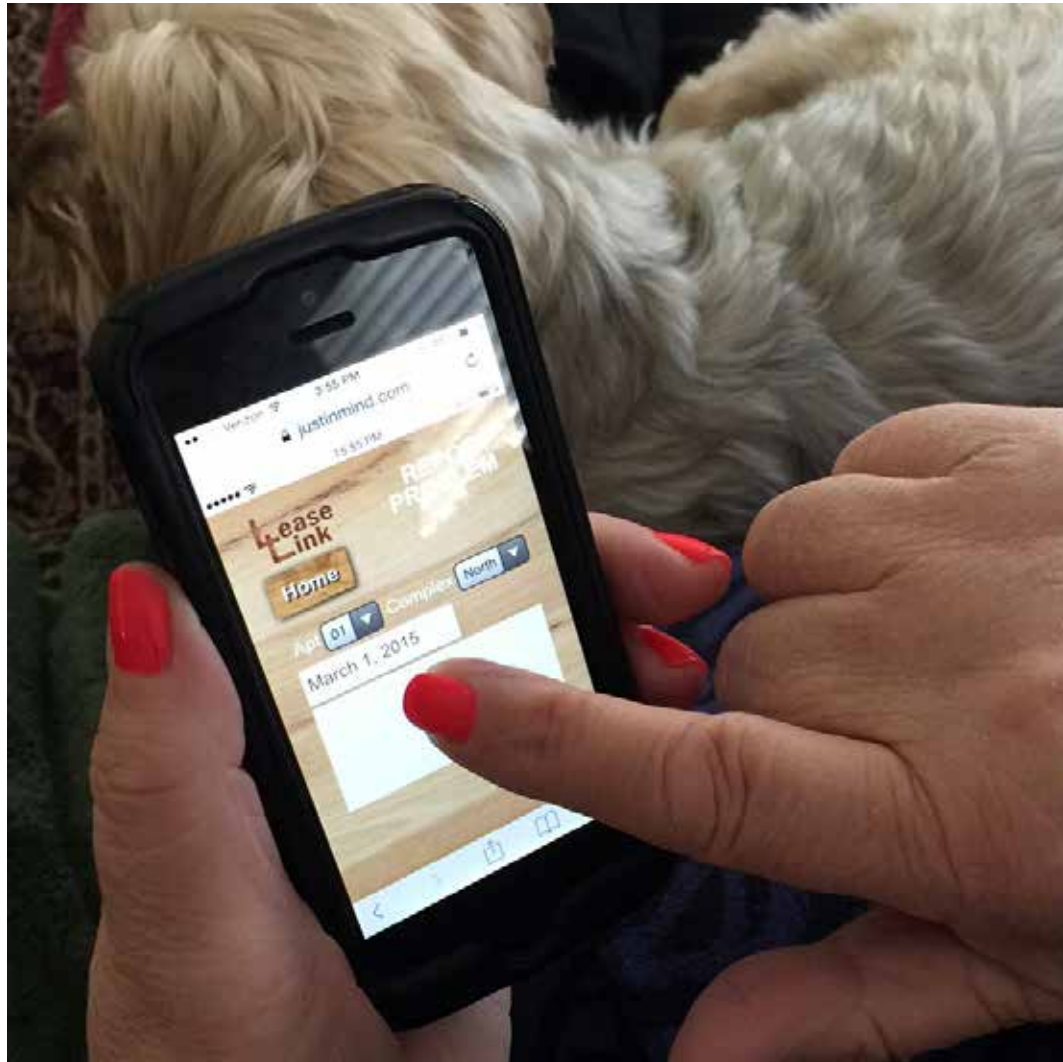
The calendar popup covers clickable * areas.

Scenario 3 Results

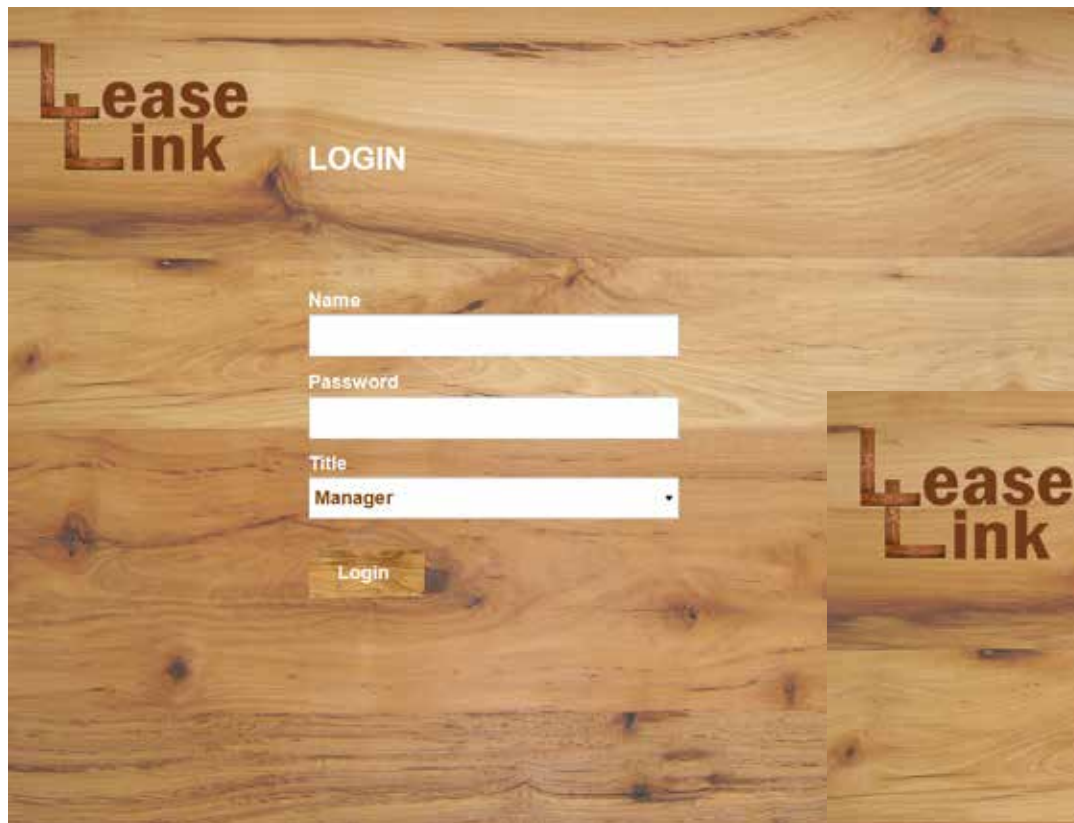
Nothing wrong with this page.

Scenario 4 Results

Only a portion of the question shows up.



Final Pages: Personal Computer



Refine:

Here are the final pages for my Personal Computer to be run for the manager.

It was suggested that the background be changed to a wood (tone).

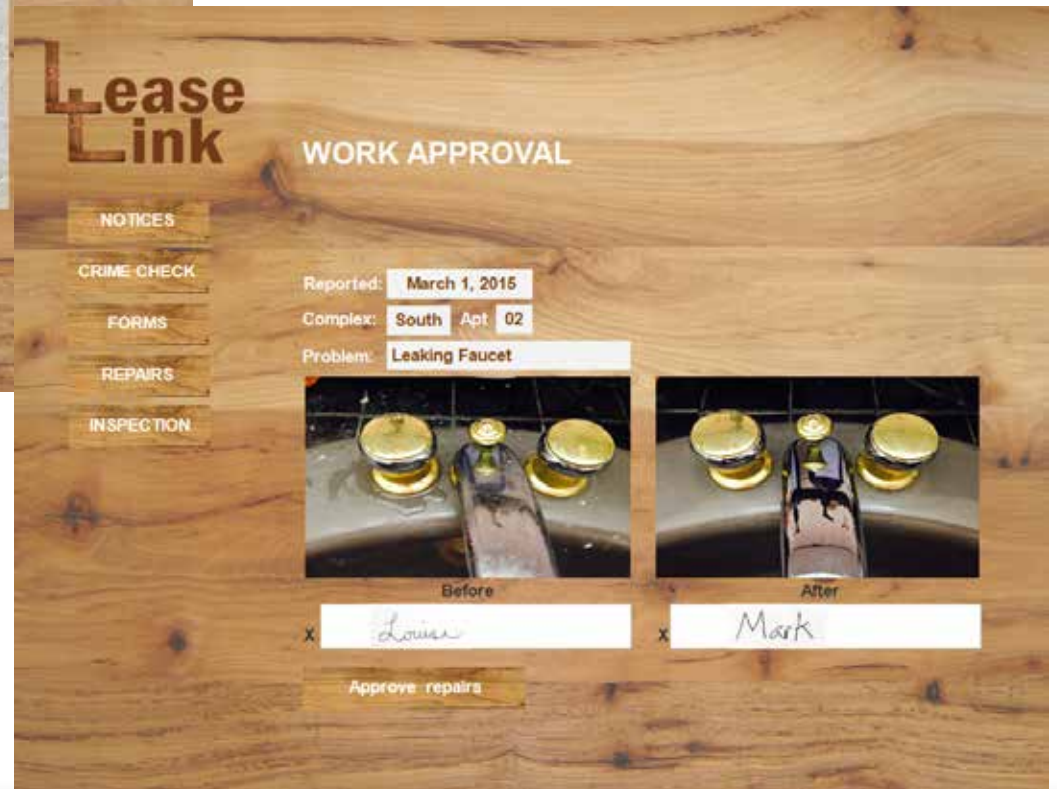
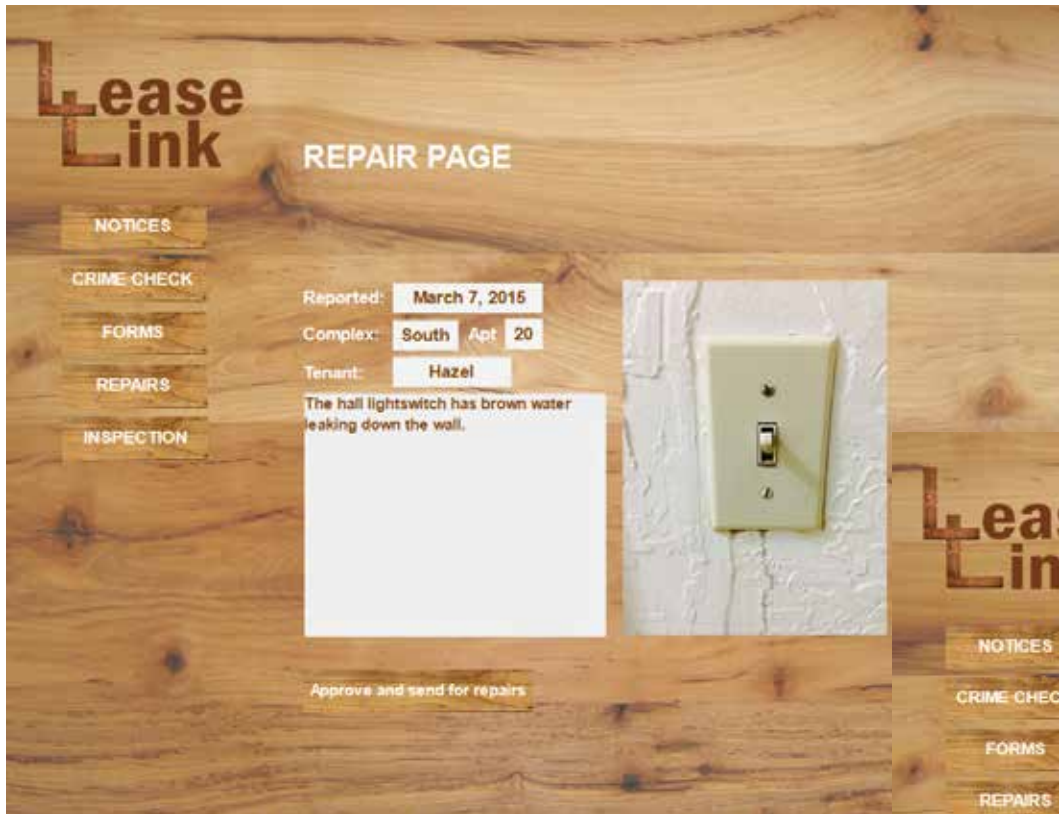
Final Pages: Personal Computer



Refine:

These pages do not reflect it but each of these buttons has a drop shadow for the button and another for the words to make them stand out a little more from the background.

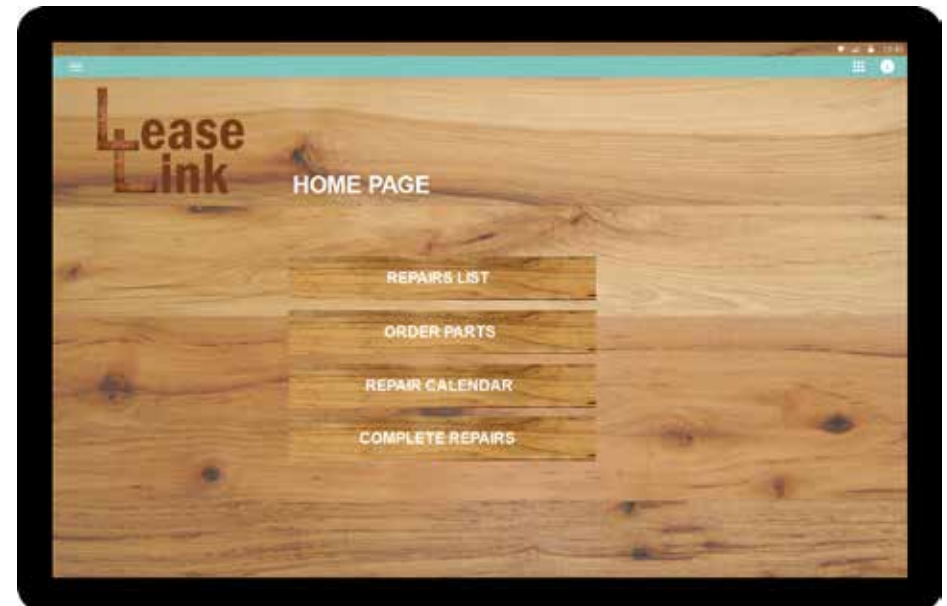
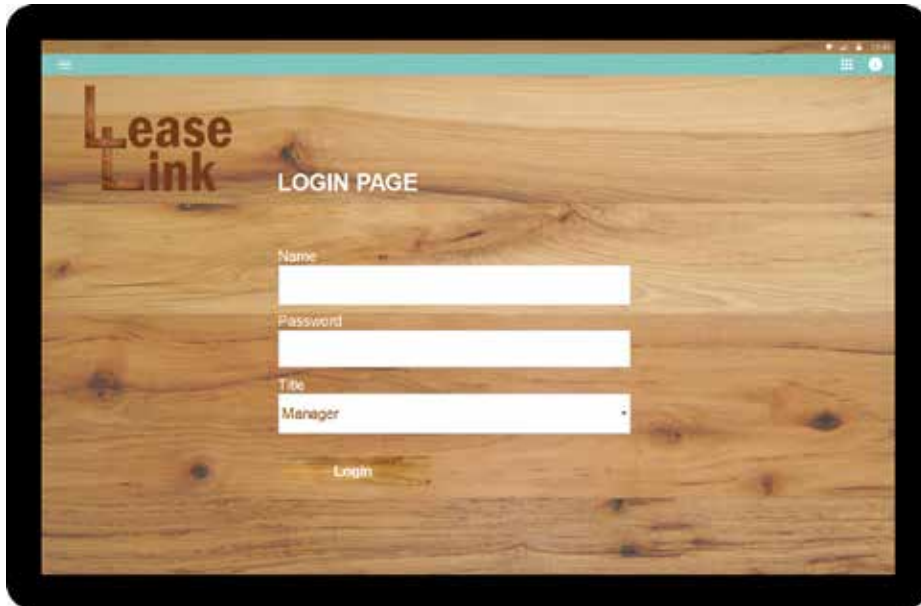
Final Pages: Personal Computer



Refine:

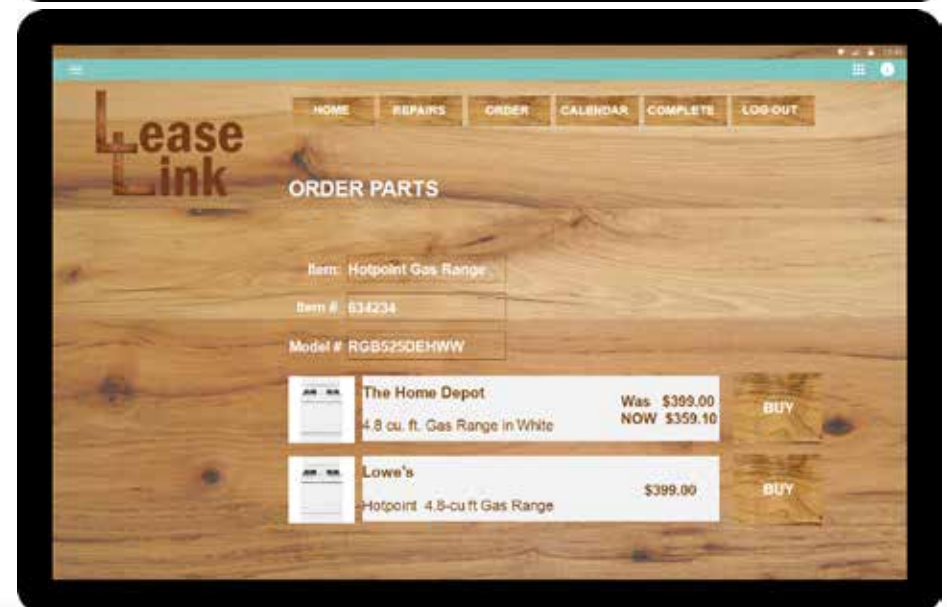
The glitches on the pages and throughout were fixed and refined so it all works together well.

Final Pages: Tablet

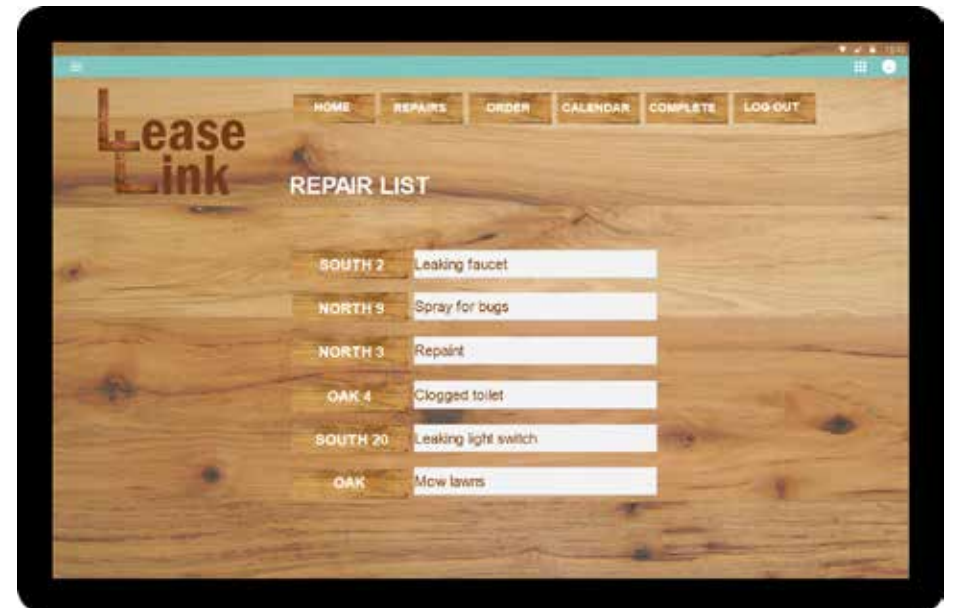
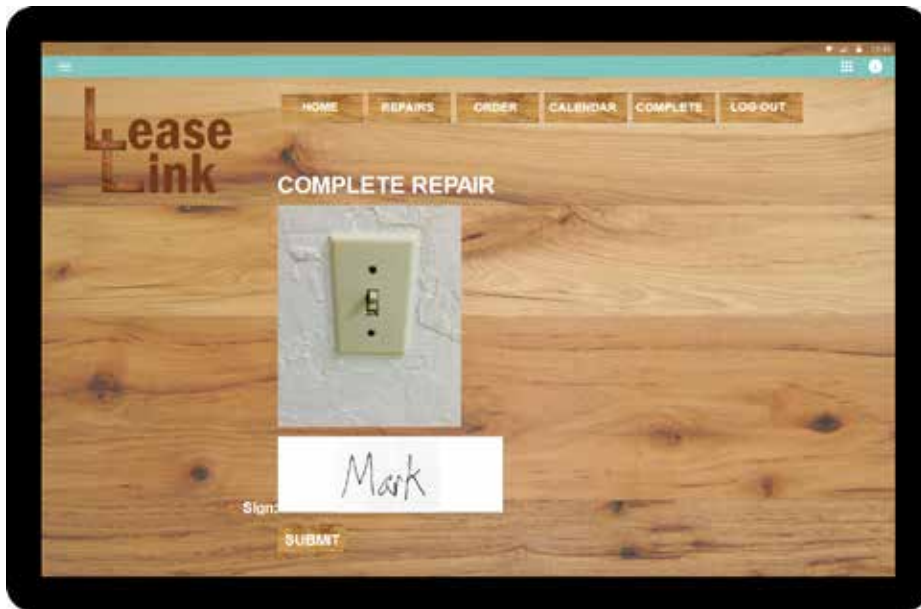


Refine:

The activity bar across the top was added only as a superficial appeal for the tablet, displaying vital information a real tablet would show. The color was changed to match the theme.

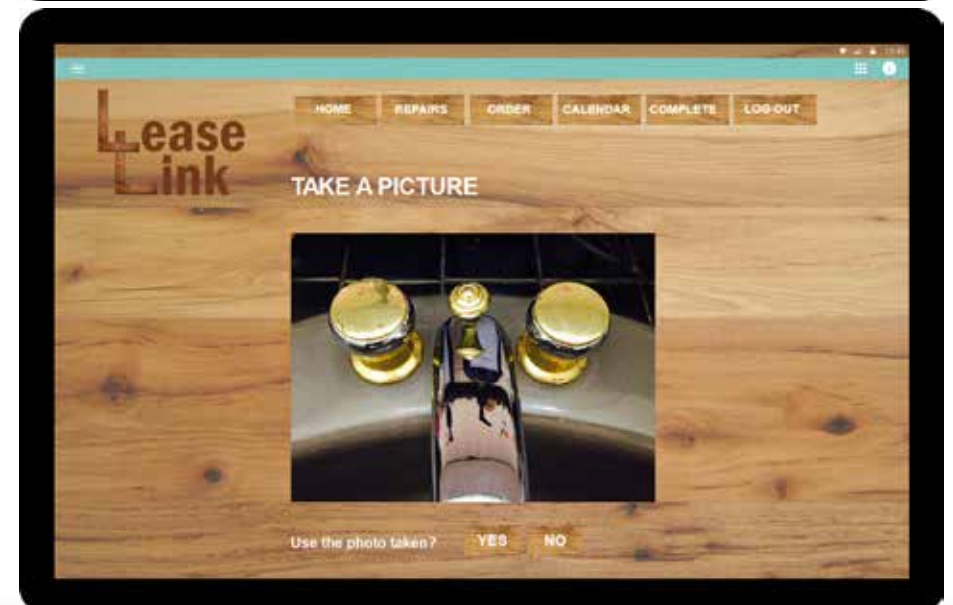


Final Pages: Tablet

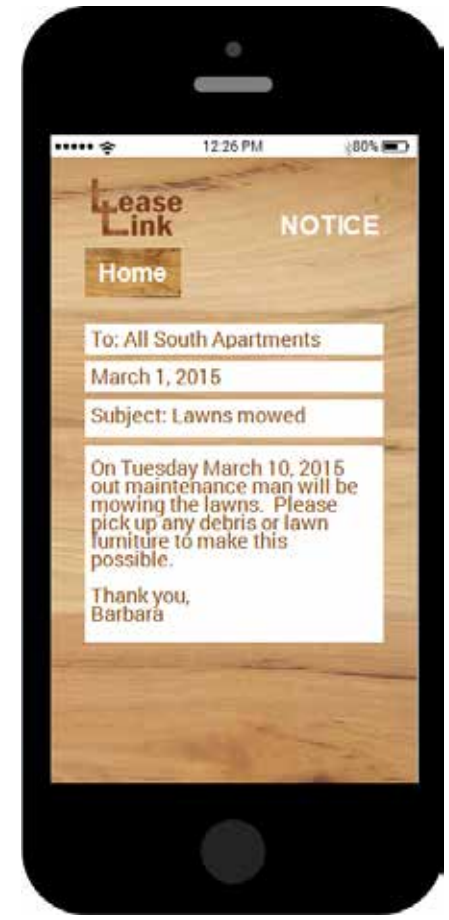
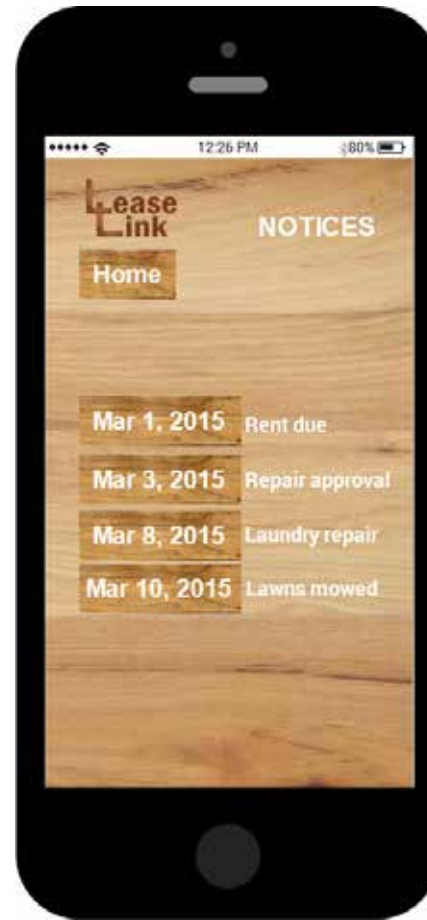
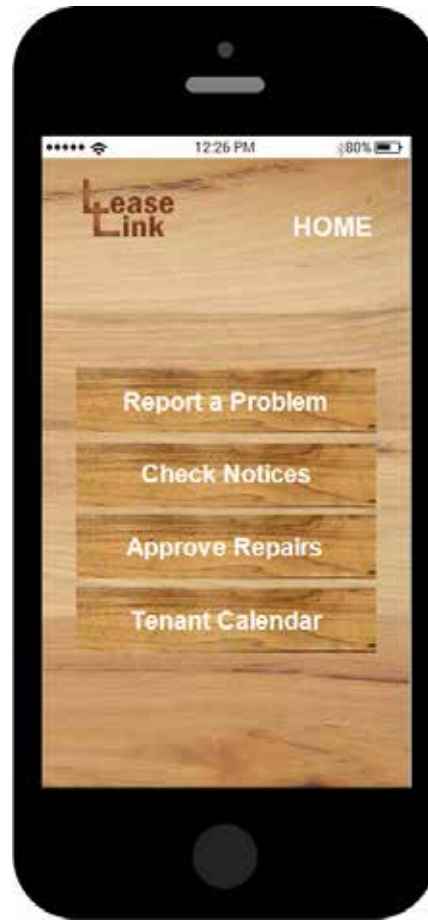
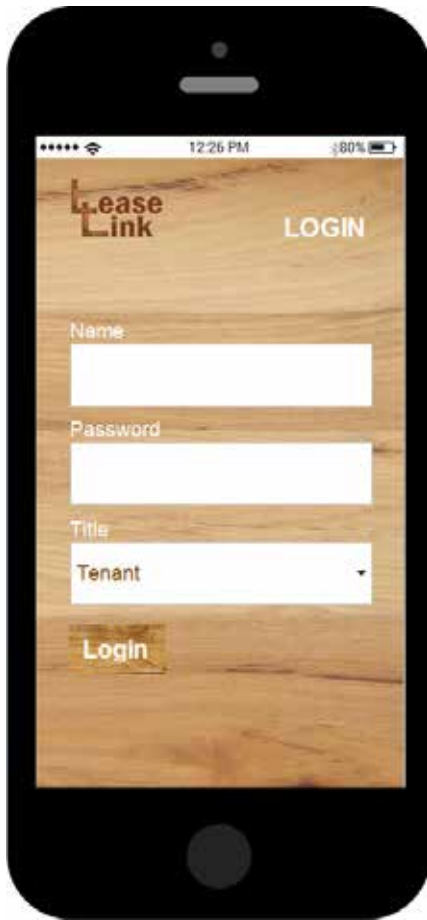


Refine:

Some minor glitches were fixed and other features were added to help aid the full structure of the app and the scenarios.



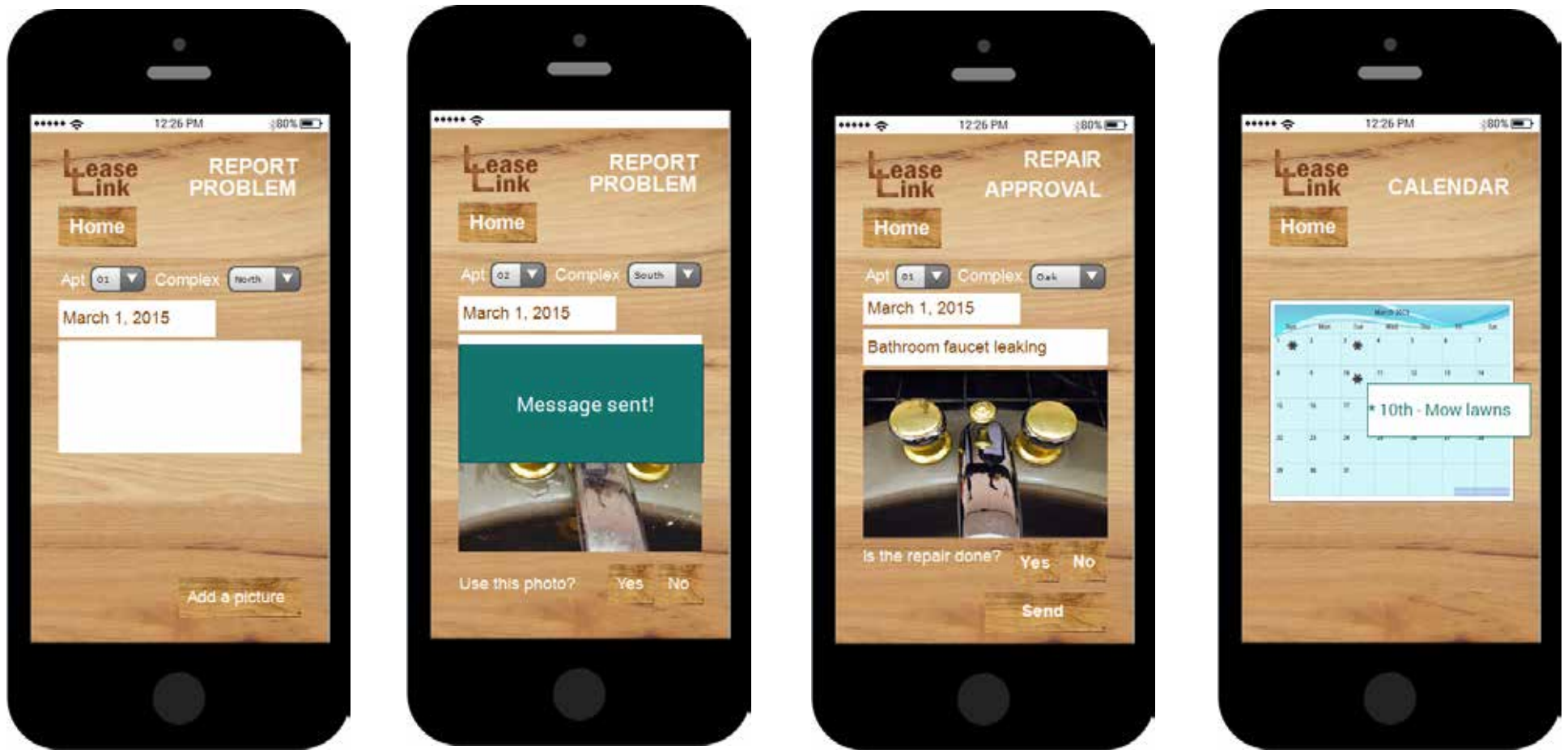
Final Pages: Smart Phone



Refine:

The writing colors were changed to white on wood with others changed to brown on white fields. The exception would be the drop down menus which were grey by default in this program and unchangeable.

Final Pages: Smart Phone



Refine:

Accents of the teal color were added for extra color to relieve the boredom of one color tone.