Landlord - Tenant App

By: Brett Lechner, Kristen Wong, and Tejas Bhoir

Motivations/Goal of the App

- Design an app that facilitates communication between a landlord and each of his or her tenants.
- The app would permit tenants to complete tasks such as send messages to the landlord, file requests for maintenance and utilities issues, view or pay the current bill, and give feedback to the landlord about general things.
- The landlord will have the ability to view all of the current tenants residing in the building, view the status of all of the tenants' current bills, check to see all of the requests made for maintenance and approve requests in order to resolve the issue, as well as send messages to any of the tenants.
- By having all of the necessary information and the ability to remotely complete basic tasks like paying bills and requesting fixes for utility issues, the app aims to bridge any gaps of communication between a landlord and the tenants and make the management of the tenants easier for the landlord.

Software Design

- One of the main aspects is a login page that is shared between the tenants and landlord. Based on the username and password, a respective UI is shown after a successful login depending on the account type.
  - Nearly every feature of the app has a separate UI for the tenant or landlord. For example, for the maintenance feature, tenants see a screen that allows them to send maintenance requests to their landlords, and landlords see a screen that displays requests made by tenants and mark the status of these requests.
- All of the information such as usernames/passwords, personal information, and all requests/messages is stored in a online Firebase database for easy access since this avoids storing the data locally.
- The app takes advantage of Firebase's asynchronous and real-time functionalities to ensure that users receive immediate updates -- landlords are notified right away of new changes and request made by tenants and vice versa.
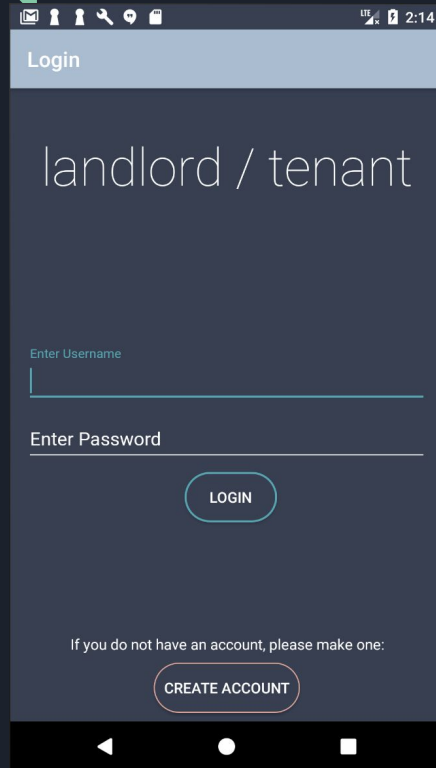
Software Design (cont.)

- The main goal of the UI design was to create a layout that is easy to navigate, easy to understand, and does not require much effort to become accustomed to the overall flow of the app.
- The main homepage interface for both the landlord and the tenant presents a button in order to navigate to the activity for the desired purpose and any other general information that is useful such as the current date.
  - For example, a button allows the tenant to navigate to the activity to file a request to fix a utility.
- Each subsequent interface for the respective purpose, such as viewing all the tenants as a landlord, is presented in the most efficient way, providing the most pertinent information and making the interface easy to read.
  - For example, viewing all of the tenants in the building presents a table with each tenant and information on each tenant such as name, phone number, email address, and any overdue charges.
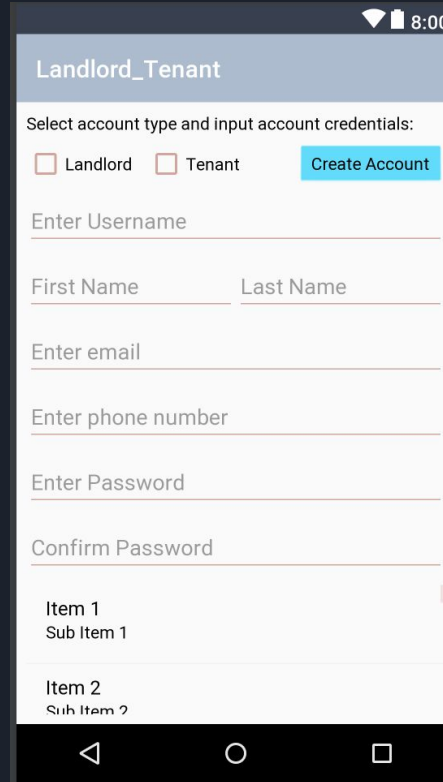
General UI

Login Page
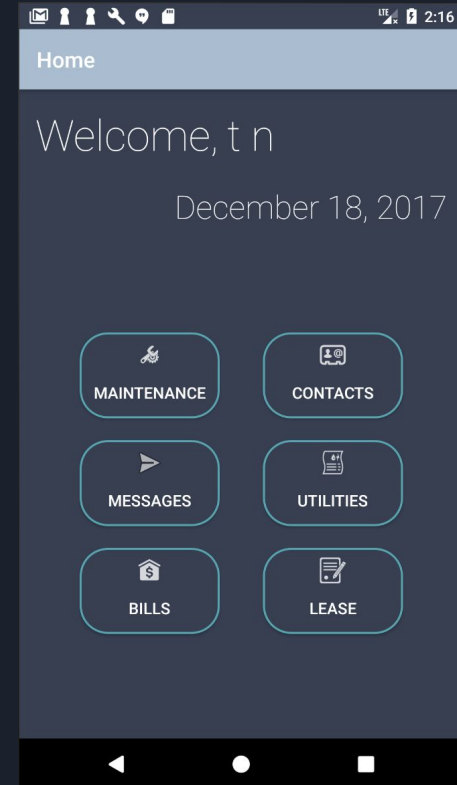
Login

landlord / tenant

Enter Username

Enter Password

LOGIN

If you do not have an account, please make one:

CREATE ACCOUNT

Create Account Page

Landlord_Tenant

Select account type and input account credentials:

☐ Landlord   ☐ Tenant   Create Account

Enter Username

First Name   Last Name

Enter email

Enter phone number

Enter Password

Confirm Password

Item 1
Sub Item 1

Item 2
Sub Item 2
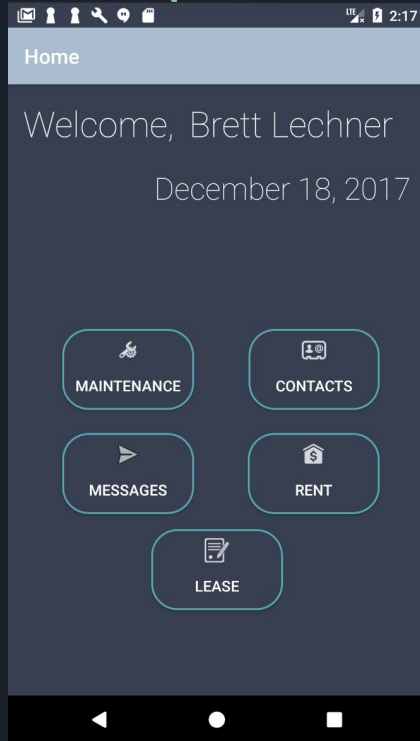
Tenant Homepage

Home

Welcome, t n

December 18, 2017

MAINTENANCE   CONTACTS

MESSAGES   UTILITIES

BILLS   LEASE

General UI (cont.)

Landlord Home Page
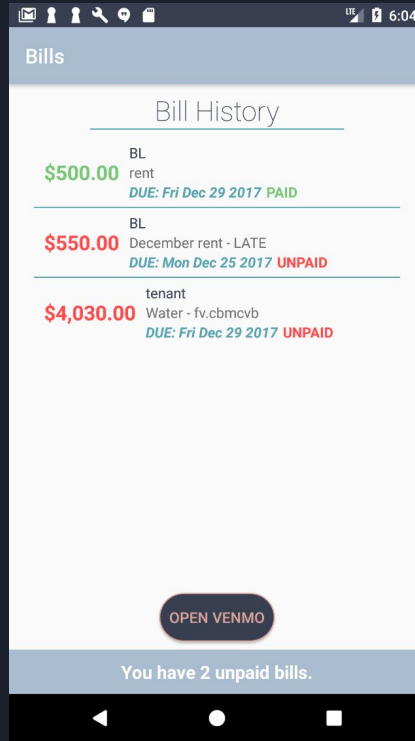
Tenant Bill History Page
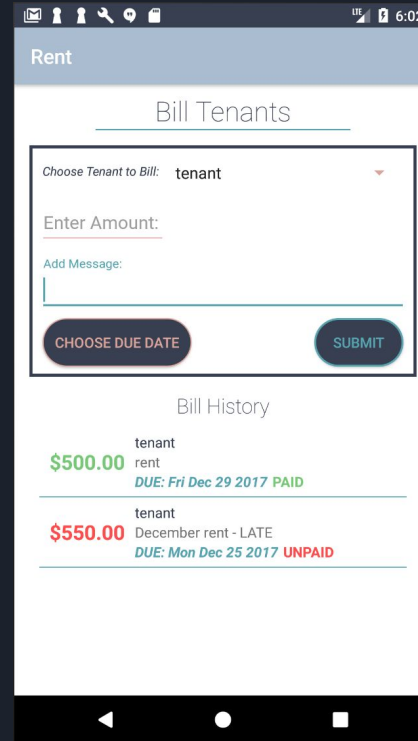
Landlord Bill Request Page

Tenant Utilities Page
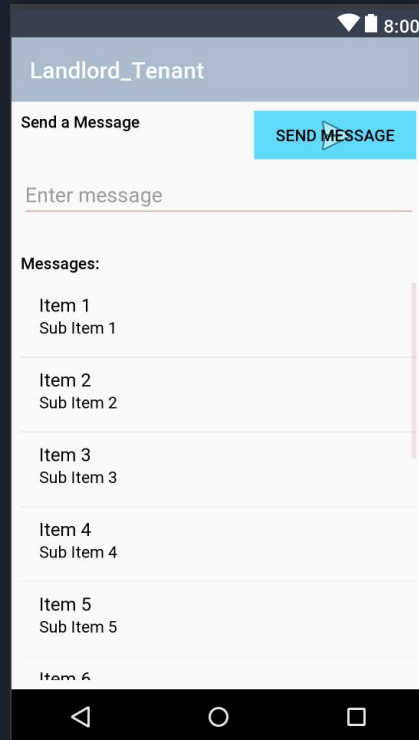
General UI (cont.)

Messaging Page

Signature Page

In-app Browser Page
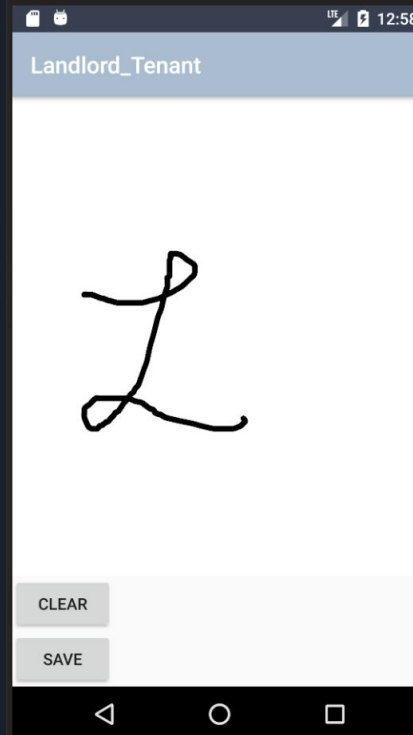

Messaging Page screen:
Landlord_Tenant
Send a Message | SEND MESSAGE
Enter message
Messages:
Item 1 / Sub Item 1
Item 2 / Sub Item 2
Item 3 / Sub Item 3
Item 4 / Sub Item 4
Item 5 / Sub Item 5
Item 6
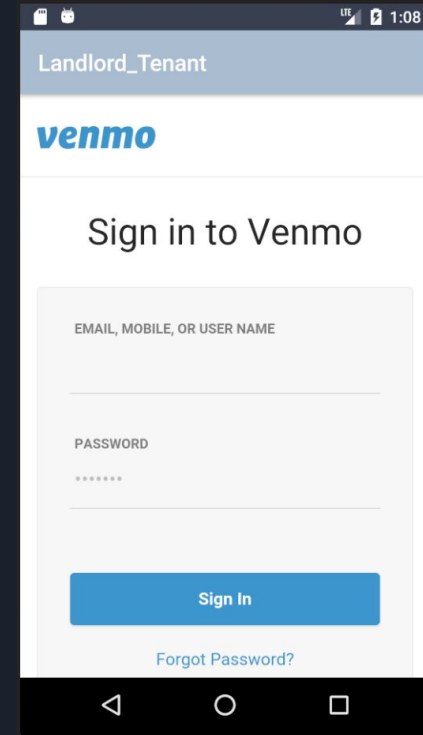
Signature Page screen:
Landlord_Tenant
CLEAR
SAVE

In-app Browser Page screen:
Landlord_Tenant
venmo
Sign in to Venmo
EMAIL, MOBILE, OR USER NAME
PASSWORD
Sign In
Forgot Password?