KASPER – PROGRAMMER DOCUMENTATION

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# Introduction

Kasper home app is a real estate application that facilitates communication between sellers, real estate agents, and prospective buyers. Sellers and real estate agents can post information and images of any number of properties (called Listings), and prospective buyers can browse through all published Listings; filtering, liking, and disliking as they please. If a user likes a Listing, it will be saved to their Favourites. If a user dislikes a Listing, it will be removed from their Browse page. Buyers will be capable of contacting sellers regarding their properties, and messaging functionality between various users will be available. Although applications with similar functionality exist, Kasper home app aims to fill a gap for individuals wishing to buy or sell exclusively. It does not provide services for renters or leasers. By dividing the market between buyers and renters, Kasper home app hopes to provide a direct, easy-to-use link between sellers, real estate agents, and prospective buyers.

# System Overview

## 2.1 High level description of the system

* In terms of languages, frameworks, tools, etc.

## 2.2 Database data structures

## 2.3 Flow from screen to screen

## 2.4 Frameworks

* Front-end
* Back-end
* Testing
* Build

## 2.5 Libraries

# 3.0 Code

* Small code example from each language used

Below is a link to the project’s GitHub:

<https://github.com/CMPT371Team1/Project>

# 4.0 Installation Instructions

# 5.0 Future Programmers

## 5.1 Unimplemented Requirements

The following requirements have not been implemented:

* Contact Seller
  + This feature is incomplete in the front-end, but complete in the back-end. Once implemented, it will require integration with the back-end and testing.
* Sign in / Sign up using Facebook
  + This feature is incomplete in the front-end, but complete in the back-end.
* Messaging Functionality
  + This feature is incomplete in the front-end, and includes functionality for getting messages between buyers and sellers, editing messages???, and contacting sellers. Once implemented, it will require integration with the back-end and testing.
* Push notifications
  + The application requires functionality which tracks changes in the database and triggers notifications to users based on those changes.
  + Buyers can sign up to receive “hot list” notifications for one or more of the following:
    - A Seller publishes a Feature Listing
    - A new Listing is added that fits some predetermined criteria (i.e. neighborhood, price range, seller, etc.)
    - There is a price change on a Favourited Listing
    - A Listing is published that contains similarities to past searches
  + Sellers can receive the following notifications regarding their personal Listings:
    - A Listing has been Favourited by a user
    - A buyer requests a viewing
    - A buyer sets a price watch on a Listing
* Integration with Google Maps
  + This feature should show Listings with regards to their physical location on a map. The Google Maps functionality should be accessible from the detail page???
* Forgot password
  + This feature should allow a user to request an email or text message containing information to reset a password.
* Finalize method of ordering images???
* Super Admin User
  + A Super Admin User can access the following additional functionality:
    - Publish a Listing under any user
    - Edit any Listing
    - Remove any Listing

## 5.2 Integration Issues

* Kristof, Gaurav, Chris MR

## 5.3 Known Bugs

* Jeremy

## 5.4 Untested Areas

* Jeremy

## 5.5 Tricky Areas (Requiring Explanation)

* Kristof, Dylan, Gaurav, Tian

## 5.6 Integral pieces of the system

* Kristof, Dylan, Gaurav, Tian

# 6.0 Deployment and Maintenance

## 6.1 Deployment

* When the system is ready to “go live”, we deploy it to the production environment
  + Contains information regarding the operations used to prepare a system for assembly and transfer to the computer system(s) on which it will run once released
  + Determine the resources required for the system to operate with good performance
  + Deployment Functionality:
    - Install and Activate
    - Deactivate
    - Uninstall
    - Update
    - Built-in Updates
    - Version Tracking
    - Adaptation (for modifying a software system that was previously installed)

## 6.2 Maintenance

* Systems evolve after deployment
  + Continued improvements
  + Bug fixes

Notes:

* Include as few links as possible (anything written by us gets included)
* Research inclusion of java docs