SW Engineering CSC648/848 Section 01 Fall 2017

Project RECycle

Team 13

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Milestone 2 10/27/2017

Date	Document History
10/27/2017	First Draft (Submitted for Review)
11/2/2017	Final Draft (Requests Incorporated into Doc)

1. Data Definitions V2

- 1. Types of users:
 - a. **Browser**: Can just view the website to get an idea about the market trends
 - b. **Selling Agent**: Needs to register. Can add house details, can remove house details, can modify the house details.
 - Name,
 - ID,
 - Location,
 - Years of experience,
 - Reputation(E, G, F)(/Rating),
 - Photo,
 - Contact Info.
 - House Listed
- c. **Buyer**: Has to register to purchase a property. He can buy house or contact the seller to have a look at the house.
 - Name,
 - ID,
 - Location,
 - ContactInfo,
 - Interested property name,
 - Photo
- d. **Admin**: Admin can ban users, remove properties from listing, view statistics for the website.
 - Name,
 - ID,
 - Admin specific GUI,
 - Log in portal
- 2. **Property details:** Contains Details of the property
 - Date of posting
 - Seller of house
 - Property location/address (elaborated on below),
 - Size in square feet,
 - Price.
 - Number of bedrooms,
 - Bath, Kitchen,
 - Lot size,
 - Date of construction,
 - Images of house
- 3. **Address details**: Contains the address details
 - Zipcode,
 - City,
 - Street,
 - Country,
 - Apartment number/House number

NOTE: Data definitions within MVC mockups and vertical prototypes are more or less consistent with milestone 1. Modify this page as new data definitions are added.

2. Functional Requirements V2

Priority 1

Buyer

- 1. The buyer shall be able to search the website for a property using zipcode, name of the city
- 2. The buyer shall be able to filter the search details by price, the area of the property, the number of rooms and the year of construction
- 3. The buyer shall be able to see a list of featured properties in the home page (as will all users)
- 4. The buyer shall be able to sign in, register and create an account for himself/herself
- 5. A registered buyer will be able to contact the seller

Seller

- 6. The seller shall be able to sign in, register and create an account for himself/herself
- 7. The seller shall be able to add/delete/modify details of the property
- 8. Seller will be able to view current listings as well as contacts at their personal dashboard.

Admin

9. The admin shall be able to suspend a seller/buyer if needed

Priority 2

Buyer

- 10. The buyer shall be able to edit his/her profile
- 11. Buyer will be able to view 'favorited' homes on dashboard as well as contacts.

Seller

- 12. The seller shall be able to edit his/her profile
- 13. The seller shall be able to contact a customer service representative through interactive messaging

<u>Admin</u>

- 14. The admin shall be able to add/delete/modify the details of property
- 15. The admin shall be able to contact a seller/buyer by message

Priority 3

Buyer

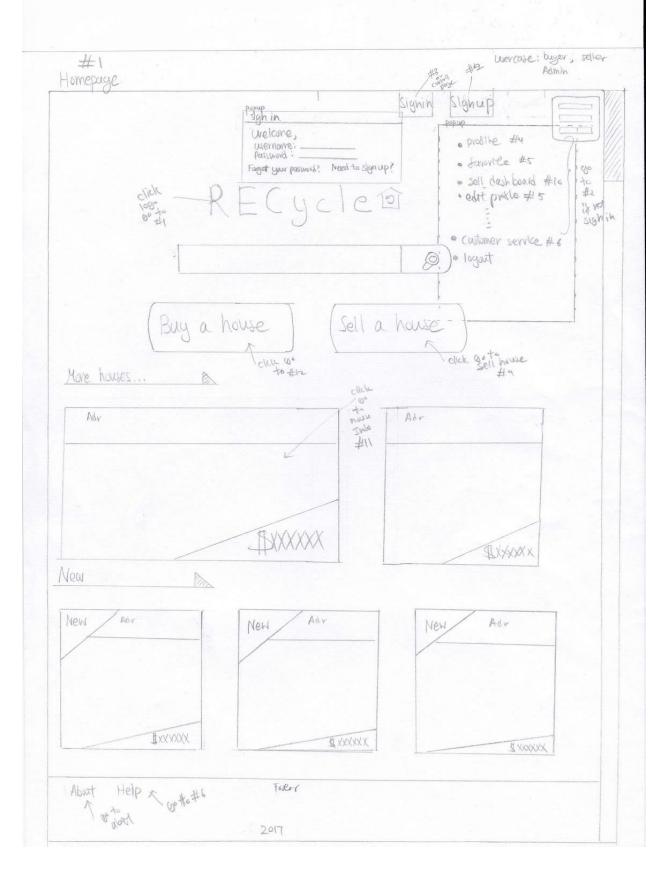
- 16. The buyer shall be able to contact a customer service representative through interactive messaging
- 17. The buyer shall be able to send message or email to the seller/real estate agent
- 18. The buyer shall be able to rate a seller

<u>Admin</u>

19. The admin shall be able to respond a seller/buyer

3. UI Mockups and Storyboards

Starts on next page.



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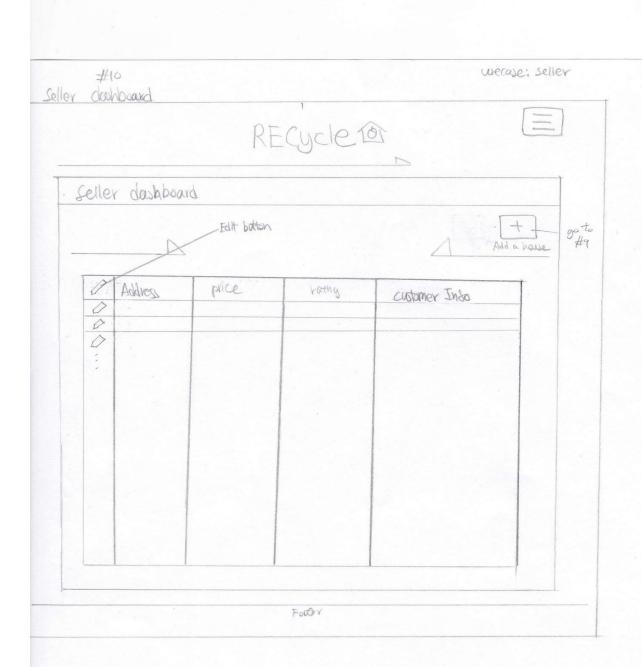
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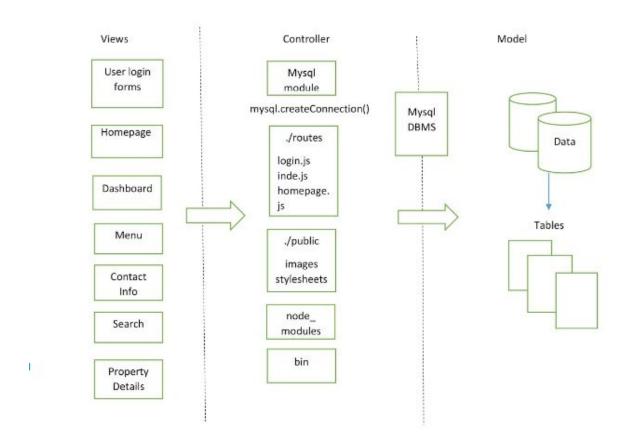
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4. High-level Architecture & Database Organization

High-Level Architecture



Database Organization

Two tables organized in the next page.

Property Table

Size (square feet)

Price

Bedroom #

Bathroom #

Lot size

Date of Construction

Images of House

Property Type

House #

Street

Zip Code

City

State

Country

Seller Table

Name

ID (identification of any kind)

Location

Years of Experience

Reputation

Photo

Contact Info

House Listings

Media Storage

Use a folder on server to store images of houses.

Search/Filter Architecture/Implementation

Use the 'like' clause in SQLQuery to have an all-inclusive string-based search. The like clause solves all of the issues.

APIs

None as of now.

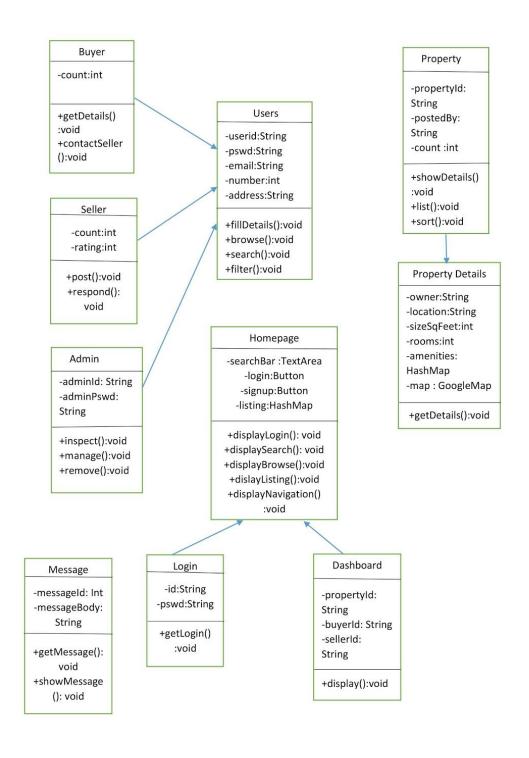
Non-Trivial Algorithms

None of note.

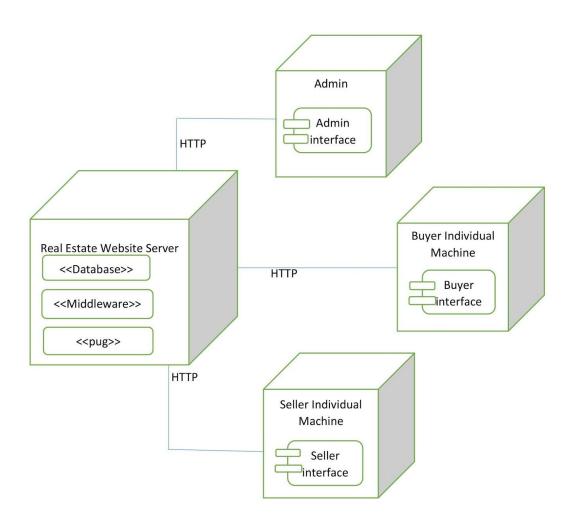
5. High-level UML Diagrams

Class Diagram

Featured on next page.



Deployment Diagram



6. Risks of the Project

For this project, there are several risks we would like to discuss. The two broad types of risks I think are relevant to our group are *technical risks* and *legal/content risks*.

Technical Risks

This project is introducing the members of our team to many new frameworks & tools that we are not well acclimated with, and that has imposed some difficulties on us already. Currently our technical issue is figuring out the implementation of various parts of the website's database, and this issue is taking up some amount of time. It is likely that issues similar to this will crop up as development on the website continues, so we note this risk as one that will exist throughout the project's duration. The reader of this paragraph may well claim that this risk directly relates to *scheduling risk* as well (in that solving technical issues creates the necessity for a time extension for the various project milestones), however our group has yet to fail to submit a milestone on time, so I do not believe that scheduling risks are all that likely.

Legal/Content Risks

The other possible risk we observe is related to copyright- our website will require the use of plenty of images of houses, some of which will be copyrighted by vengeful copyright vultures who would like to make a quick buck off of poor students using their images. While we do think the risk of copyright infringement is low, as the website will be pretty much unaccessible unless you have knowledge of it beforehand, we suppose the chance of occurrence is not 0, so we list it as a possible risk.