

Sell House

My Own Properties

Messages

Logout

Exit

Search Location

Map

Satellite

HAPPY REAL ESTATE

HAPPY KOALAS:

Burak ERKILIÇ
Deniz EVRENSEL
Özlem YILDIZ
Selim Fırat YILMAZ
Mert YURDAKUL

Google

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TUR

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Introduction

Purpose

Facilitating the user's work in the subject of finding new properties and helping the seller to demonstrate his/her properties with the necessary informations and photos.

Targeted Users

This desktop program is on purpose of house buyers, of the ones who sell their house and of real estate agents.

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Desired Features

Users are able to choose any house on sale or for rent on the map by clicking on it and get properties of that house such as size of house, number of rooms, age of buildings and photos. They can search the location which they want for the house

Advantages

The advantages of that program is that it is an interactive program, it decreases the dependence of property owners against real estate agents but also it helps real estate agents to have an easy access of his properties.

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Features

- Map
- Menu
- Registering
- Messaging
- Sale announcement
- Collecting and setting data on server
- Searching on the map

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LIBRARIES

- ❏ ControlsFX
- ❏ Jongo (and MongoDB driver)
- ❏ Google Map JS API
- ❏ Socket.io
- ❏ Jackson (JSON serialization/deserialization)
- ❏ Google Map Clusterer
- ❏ RxJava

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Reactive Programming (RxJava)

- Event driven framework RxJava which is in Reactive programming style.
- Subscribers subscribes to observables (UseCases)
- Helps to avoid callback hell
- Handles asynchronous cases (Observables trigger such events of subscribers below)
 - onNext (for next house from server, add marker)
 - onError (instead of checking like if(error))
 - onCompleted (fetching houses finished)
 - onStart
- Helps to avoid callback hell
- It connects domain and presentation like a reaction chain so that we can map/filter data in connecting parts.
- Just used in client.

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UML

Ankara

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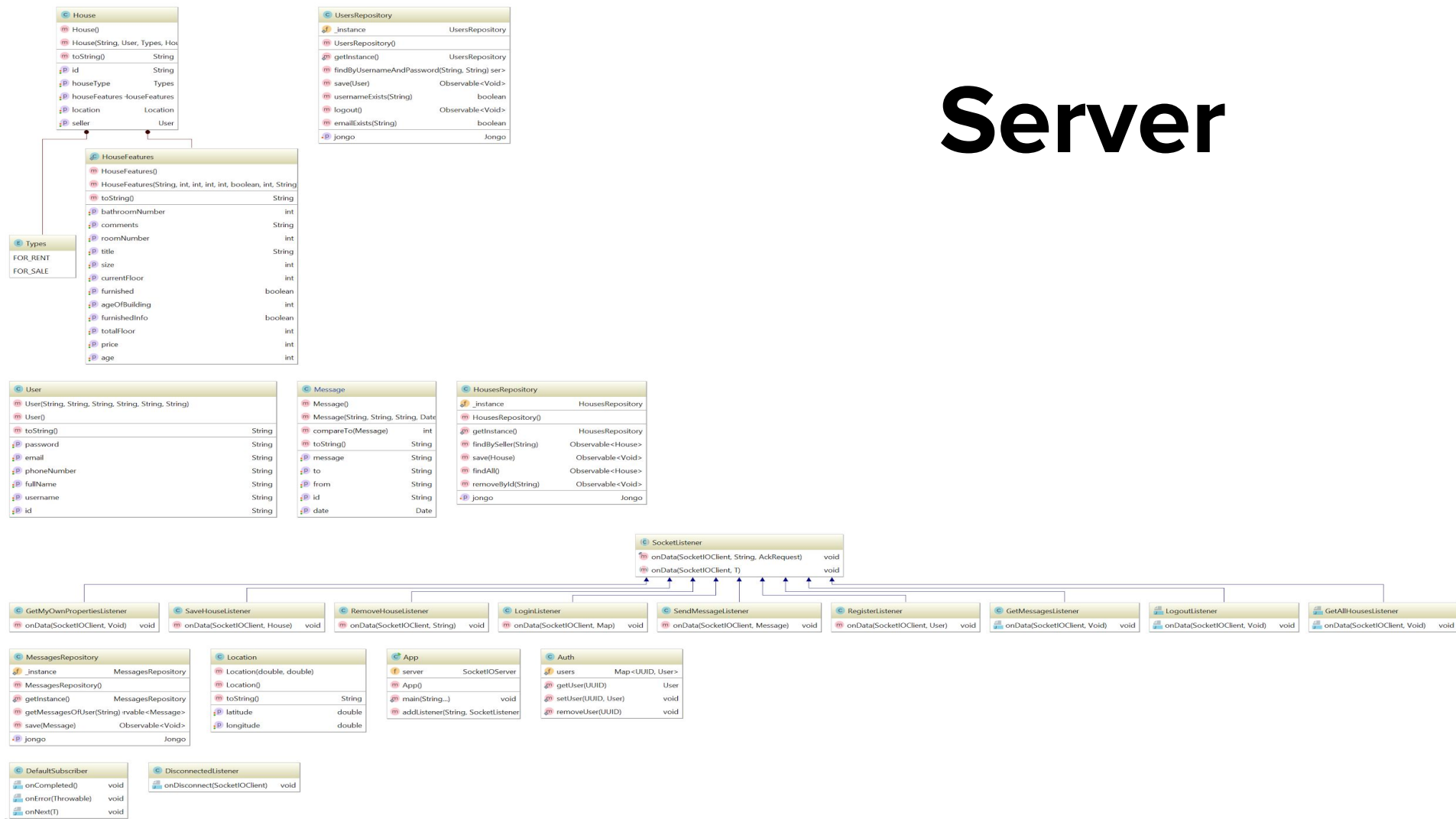
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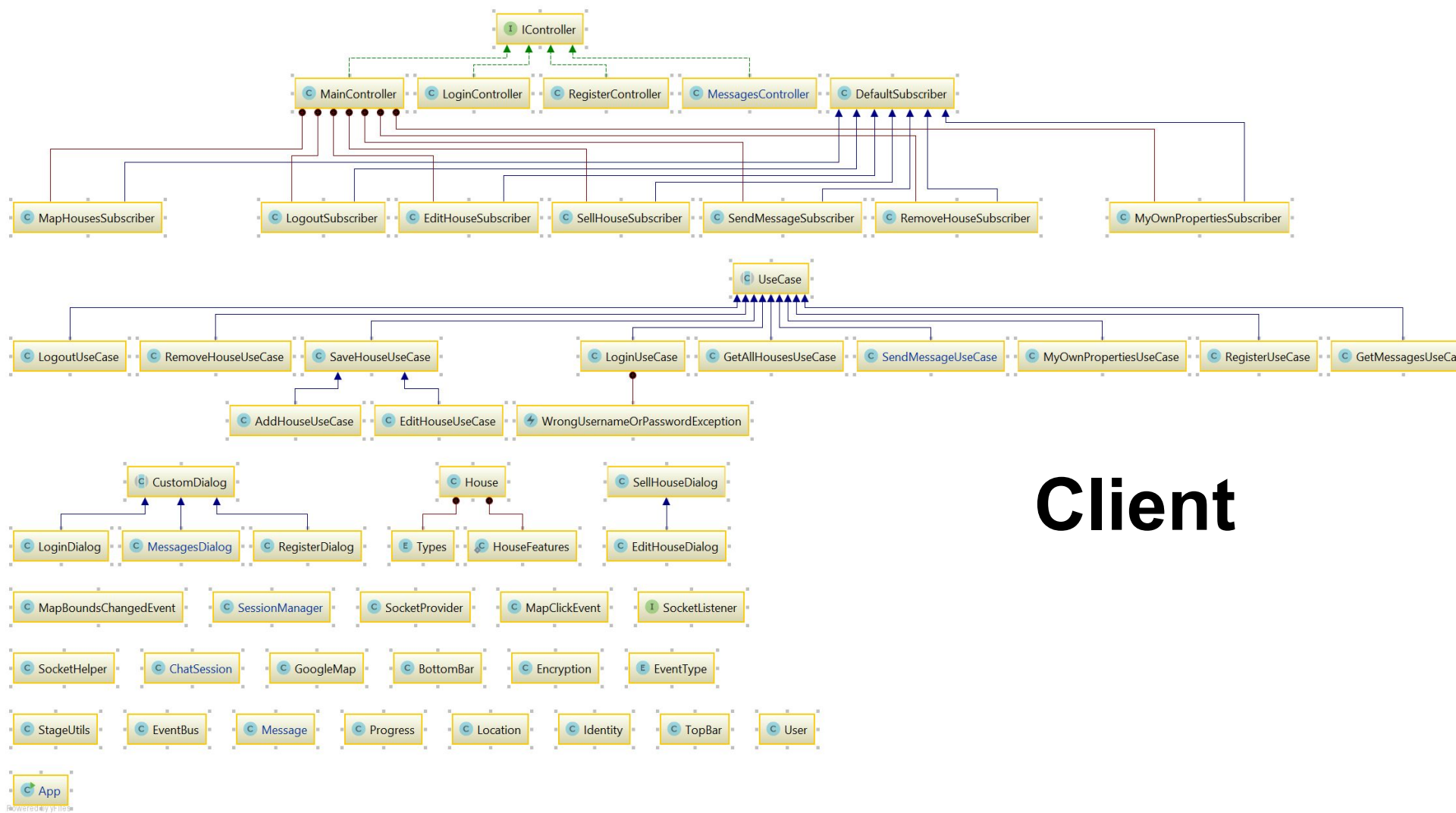
14:07

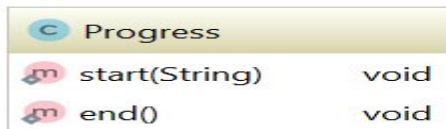
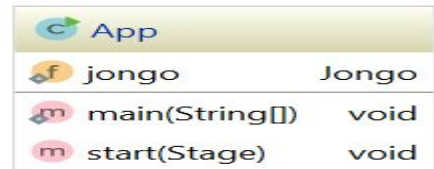
29-Dec-16

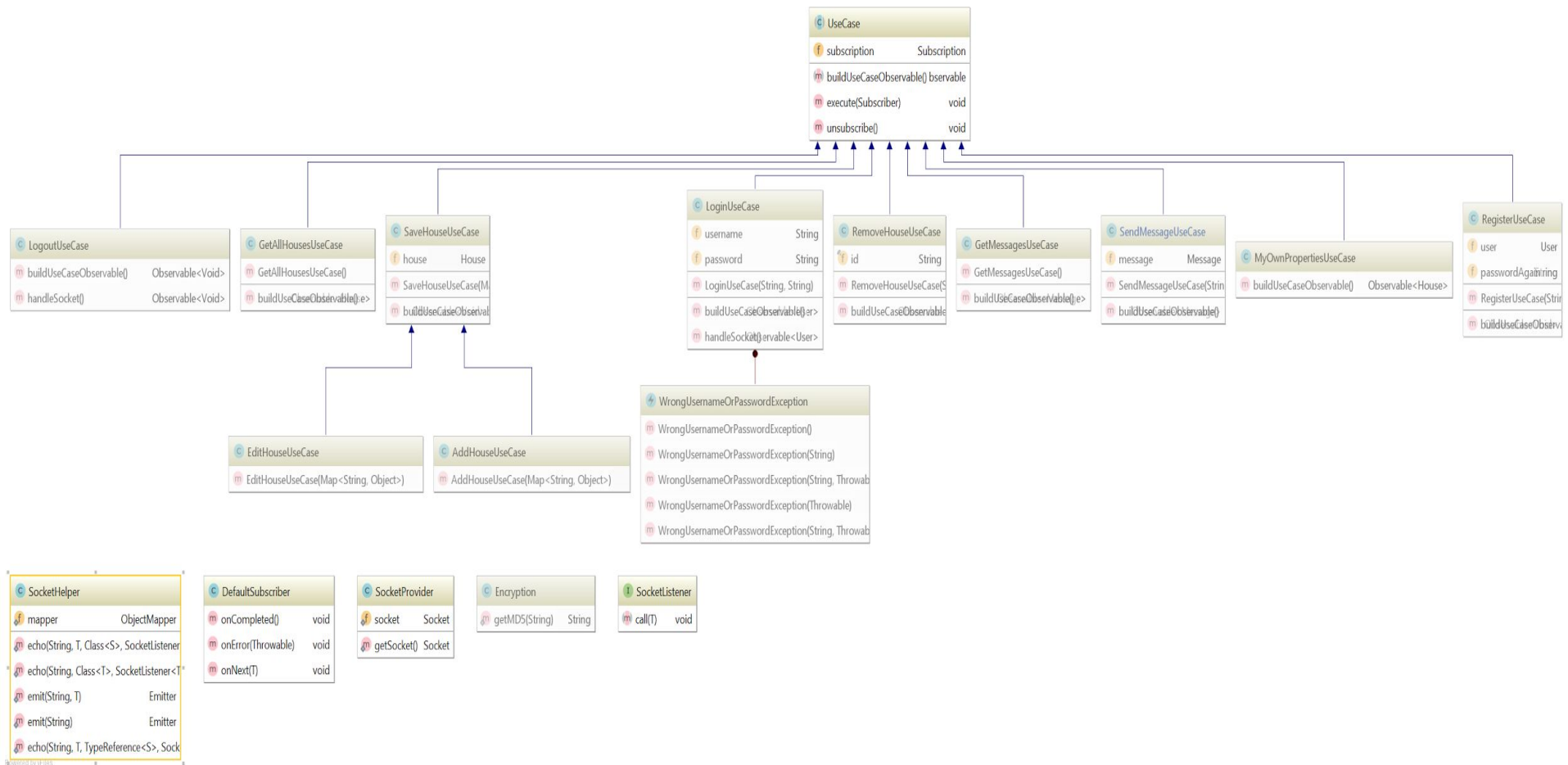
TUR

Server









Important Methods and Data Structures

Login (Client-Server)

1. Types username/pw and clicks login
2. LoginDialog(View) calls onClickLogin method in controller
3. Controller creates a LoginUseCase object with instance variables username and pw
4. LoginUseCase encrypts password with MD5.
5. LoginUseCase uses SocketHelper.echo method to request login with username&pw data through sockets and starts to listen for an answer.
6. SocketHelper class serializes data and sends it to the server
7. In server, LoginListener class listens for the LOGIN event when LOGIN event is received it checks whether username or password is correct from database.
8. Server sends the result of login process to the client back.
9. Since client was listening for the login result, in other words LoginController was subscribed for the login result, the GUI changes if login is succesful.

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GoogleMap Class

GoogleMap class

Communication between javascript and java
Javafx webengine and webview

GoogleMaps API on JavaScript

Map.html and javascript codes of the map.

Google map Clusterer for minimize markers.

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Web Crawler Bot

A bot which is written in python.

Gettering data from hurriyetemlak.com.

Providing data for feature machine learning project.

Beautifulsoup bs4 library.

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WORK DIVISION

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Future Works

- Estimating the price of the house
- Adding to the favourites
- Different marks for houses on sale or for rent
- Filtering the properties according to their features

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Summary

Briefly, Happy Real Estate application is done by Happy Koalas and the purpose is that making the user (seller/client) happier due to the easier finding and selling the properties.

In general, the features of this application are that user login, online map which makes the perception of the location easier, messaging that ensures quick communication, announcement view for the houses on sale.

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Thank you for attention.



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