**New York Real Estate Database Application**

EXECUTIVE SUMMARY

This is a New York Real Estate Database Application. It provides convenient information management of the real estate for sale listings and comprehensive homes for sale information, through system's data storage and graphical user interface.

Nowadays, extensive people choose to buy home in New York, because of the convenience of living and large numbers of job opportunities. Plus more and more investors are attracted to invest in New York real estate, because the potential of New York real estate is tremendous. Therefore, the real estate companies need functional information management system to manage extensive real estate information.

In the past, the real estate information was recorded by regular forms or text files. This is very time consuming and inconvenient to manage huge size of data. When the huge data occur simultaneously on the text file, it is very confusing for workers to get right information from text file. In addition, there is one serious problem, those files cannot provide security and privacy of data. Everyone can access the data text files, everyone can modify or delete any data listings.

How can we solve these problems with our New York Real Estate Information System?

**First of all,** this system uses database(MYSQL) to store extensive information of New York real estate for sale listings, uses JAVA JDBC API to access and query data in database, uses JAVA GUI API for designing graphic user interface. After user opens this software, the navigation window will come out. There is a menu bar on the window. There are functional menu items to manipulate all data, which provide options to input ,modify, or delete, download, list all data contents. Plus, the user can search the desired data for setting different criteria. All the data is displayed with distinct ID index on the table in system. It is very convenient to look through all data.

**Second,** this system offers a wide range of information aspects for New York real estate for sale listings. This application stores Id, Property Type(Condo/Coop, Multi-Family, Single Family, Townhouse, Vacant Land), Property Address, City, State, Zip, Property Price, Bedroom number, Bathroom number, Square Feet of Property, Year built, Parking spot number, Days on the Market, Property Status(Active, Sold), Realtor Agency information.

**Third,** this system provides clear configuration on the interface. Such as Search operations offer "Search", "List all Data Listings", "Display by Price Lowest to Highest", "Display by Price Highest to Lowest", "Display by Days on Market Shortest to Longest" and ""Display by Days on Market Longest to Shortest". Advanced Operations offer "Insert", "Modify", "Delete", "Export Table". Feature offers "Search Internet" with keywords input by user.

**Forth,** with this system, it is easy and convenient to set up search criteria and get the desired data listings.The user can input keywords of Street, City or Zip code to get the property listings at desired location. The user can also input price range, property type, bedroom number, bathroom number, Parking spot number, Days on the Market, keywords of realtor agency to get the corresponding listings. Plus, the user can set the result displaying order. The result can be sorted by: (1)Price(low-high), (2)Price(high-low), (3)Newest, (4)Oldest, which would satisfy all kinds of needs of real estate companies.

**Fifth,** this is the most important point--security and privacy of data. For the security and privacy of data, the user is required to input User ID and Password to login the software. We employ the security specialists to maintain the database, who protect the data from attacking and invasion by external malicious users.

**Sixth,** it provides an approach to keep data persistent. Each time the user connects the database, it will automatically append the timestamp and corresponding commands on text file "logfile. txt". In case database system crashes, we can use those logfile.txt and copies of original data to restore database.

**Seventh,** it provides user manual. The manual is designed to give instructions with multiple user's needs. It gives instructions how to compile the software, how to login, how to connect the database, how to search data, how to list all data, how to access data through advanced operations(Insert, Modify, Delete, Export data in Table), how to search keywords on Internet and how to disconnect database.

From the report based on a survey of REALTORS® about Existing Home Sales to resident and non-resident foreigners over the time period April 2014 through March 2015, pending home sales continued to rise in May, June and July, and are now at their highest level in over nine years. This report indicates that the real estate market has tremendous potential in the future.

This New York Real Estate Information System **provides real estate companies with most convenient operations to the data. Plus, it provides** security and privacy of data**, and** provides an approach to keep data persistent. With increased home buyers and investors in the future, the real estate companies need information management system to manage the huge size of information. We can get more and more users who are interested in this information system. Therefore this information system is worth your investment. It will boost the value of your investment.