



House Price Prediction



Project Overview

This Project uses Linear Regression algorithm to
Predict the Selling Price of your house.



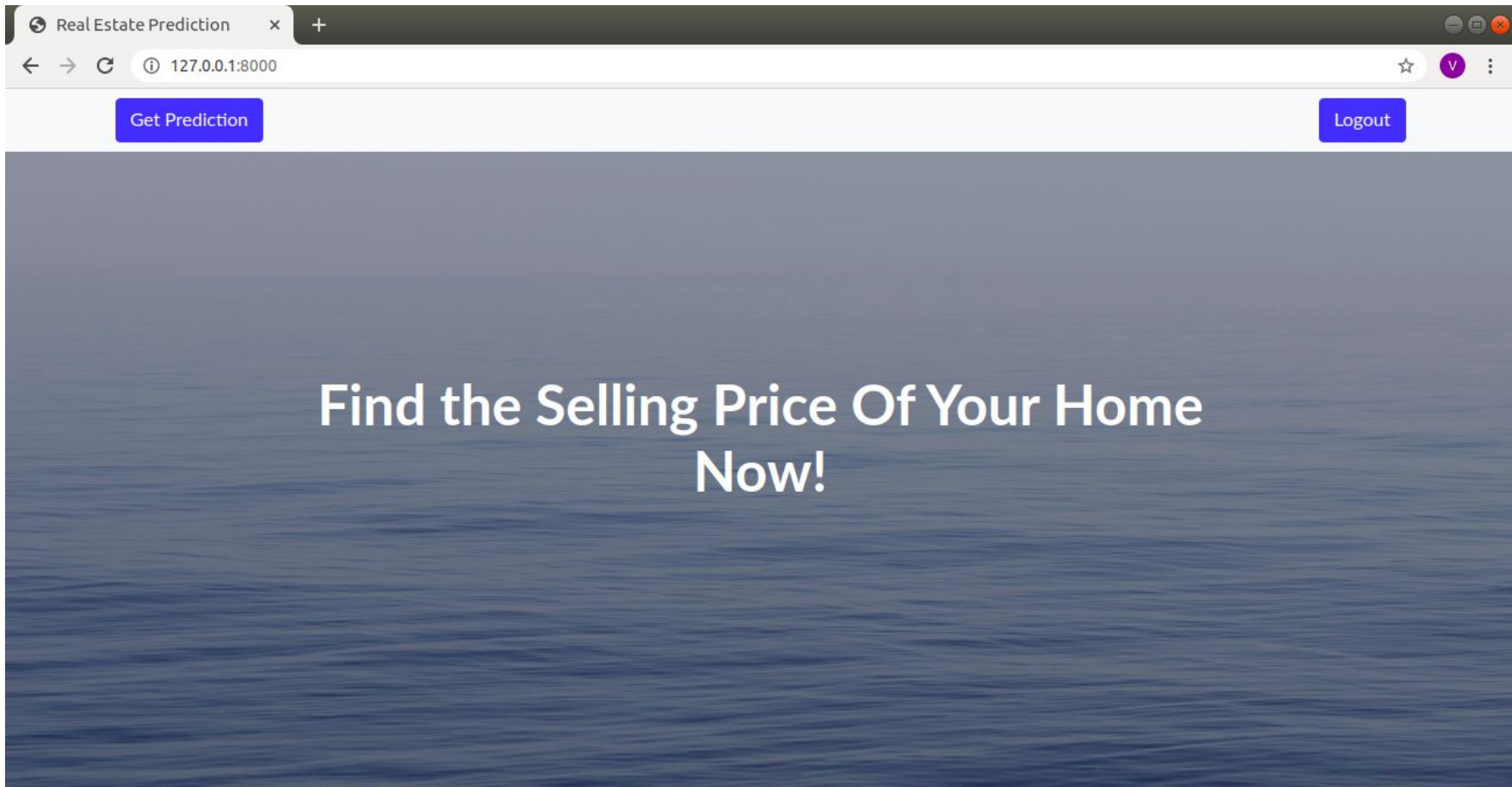
Apps in the Project

- Registration: Handles Registration, Sign up Logic, Logout
- Home: Handles operations after user has been authenticated (after sign in)
 - Get House Details
 - Show Prediction as Price per square feel of your House
 - Shows Previous queries of the user and its Prediction
- Backend: This Project utilises SQLite database for storing user details and Prediction results



How is The Price of the house Predicted?

- This web-app uses the real estate valuation dataset in UCI machine learning repository
Link: <http://archive.ics.uci.edu/ml/datasets/Real+estate+valuation+data+set>
- A linear regression model was trained based on the above dataset.
- The model was saved by storing its weights in a house_model.sav file
- This file is then used to upload the weights for the model, which is used to predict the price per square feet.
- The features for the model include
 - The house age (unit: year)
 - The distance to the nearest MRT station (unit: meter)
 - The number of convenience stores in the living circle on foot (integer)
 - The geographic coordinate, latitude. (unit: degree)
 - The geographic coordinate, longitude. (unit: degree)



Home

Get Prediction

Logout

Show Results

The Selling Price of Your Home is
18038.22 per square feet

Real Estate Prediction

Houses

- Date: April 19, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 2.20200
- Date: April 5, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 14085.15165
- Date: April 14, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 12660.65236
- Date: April 11, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 12655.30535
- Date: April 5, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 17579.33862
- Date: April 5, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 17405.69253
- Date: April 19, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 56978.09765
- Date: April 17, 2020 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: -2854.27510
- Date: March 31, 1600 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 2.20200
- Date: March 31, 1600 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 2.20200
- Date: March 31, 1600 Age of House: 2.2 Distance to MRT Station: Distance to Convenience Stores: 1 Latitude: 1.20200 Price: 2.20200



Thank You