House Price

REPRICE

Test Plan

Revision History

Authors	Description of Change	Sections	Rev	Date
Mohammad H., Kunal M., and Don F.	Initial Release	All	0	April 7, 2019

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1   Team Description

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2   Test Description

This document details the description of the tests employed to analyze the performance of the developed software. The test procedure examines three main modules of the software: (1) interface, (2), data manager, (3) predictor models. The interface tests shall test successful presentation of input page, validation of inputs, and display of results. The data manager tests include successful connection to Zillow's website, retrieval of the past three entries for State, City, County, and Neighborhood values.

2.1   Test Platform / Hardware / Environment

The test shall be conducted on a Linux machine. The seed used for all of the random number generators is 23. The last month used for examining the "test" performance of the model is March 2019.

2.2   Test Definition

2.2.1   Interface Test

Description: Tests Interface home page, start up and functionality of the html form boxes. Observe if autocomplete feature of form boxes works and if error checking works as planned.

Requirements Tested: RID-7001, RID-7002, RID-7003, RID-7004

2.2.2   Data Retrieval Test

Description: Tests dataset correct retrieved and limited to newest three months data. Dataset correctly return the value when specific request made.

Requirements Tested: RID-1001, RID-1002, RID-1003, RID-1004

2.2.3   Predictor Test

Description: Test the general performance of the predictor class on its training dataset and the latest data published by Zillow.

Requirements Tested: RID-2001, RID-2002, RID-2003, RID-2004, RID-3001, RID-3002, RID-4001, RID-4002, RID-5001, RID-5002, RID-6001, RID-6002

2.3   Verification Cross Reference Matrix

Requirement Identifier	Where Tested
RID-7001	Interface Test
RID-7002	Interface Test
RID-7003	Interface Test
RID-7004	Interface Test
RID-1001	Dataset Test
RID-1002	Dataset Test
RID-1003	Dataset Test
RID-1004	Dataset Test
RID-2001	Predictor Test
RID-2002	Predictor Test
RID-2003	Predictor Test
RID-2004	Predictor Test
RID-3001	Predictor Test
RID-3002	Predictor Test
RID-4001	Predictor Test
RID-4002	Predictor Test
RID-5001	Predictor Test
RID-5002	Predictor Test
RID-6001	Predictor Test
RID-6002	Predictor Test