**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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# Team Description

|  |  |
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# 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.

## 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.

## Test Definition

### 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

### 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

### 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

## 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 |