Santorini Project

Targeted Real-Estate Investment in D.C.

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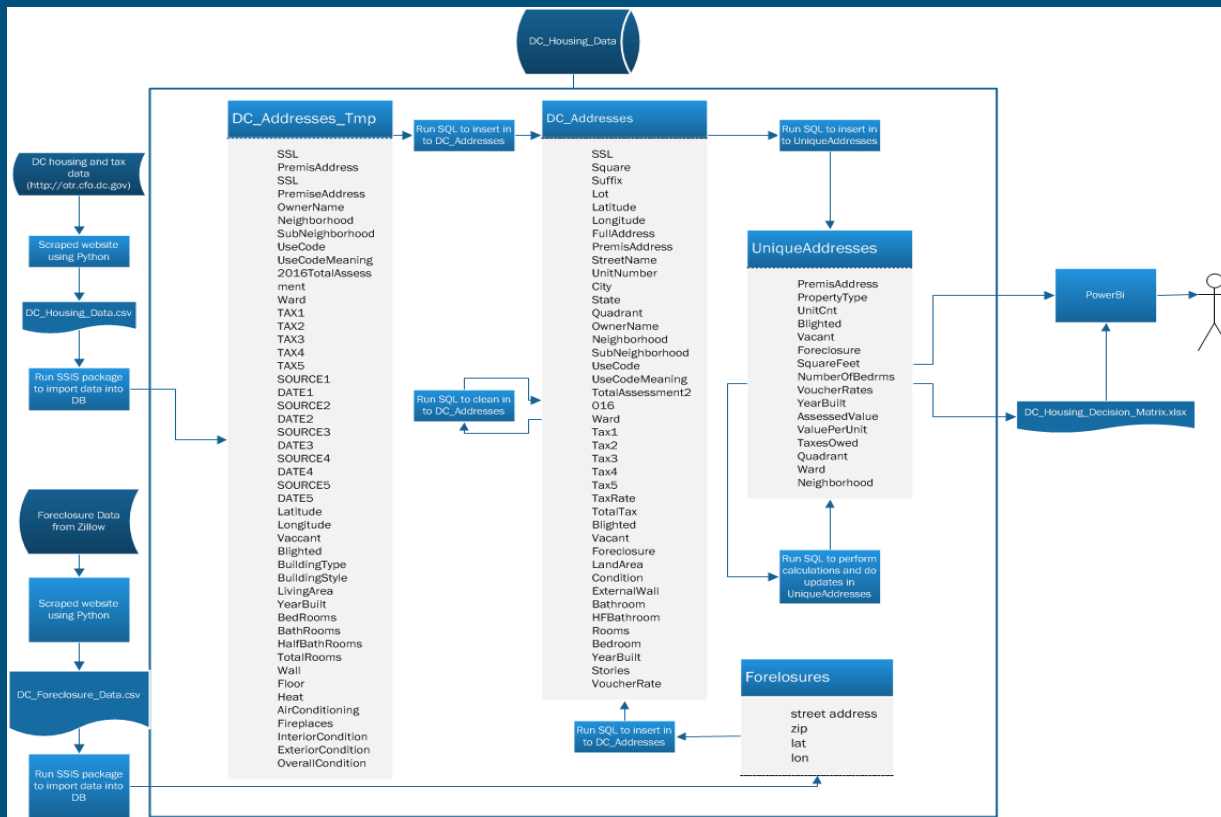
John Erickson

Mr. Bean Goes House Hunting

Problems

Visited a total of 4 properties:

1. Seemed nice but the woman selling was a bit odd leaving us feelings of uncertainty and distrust
2. Didn't allow for his teddy bear
3. Looked promising until he found out it was the chicken pen outside

4. Encountered some crooks

Data Storage/Aggregation

1. Collect data from authorized websites & with proper licenses/authorizations

2. Clean data & store in database

3. Load into Microsoft PowerBI

4. Repeat each quarter / semi-annually

Power BI Demo

5

Decision Matrix

The Decision Process

1. Rank attributes

2. Convert data to numeric type

3. Compute weighted average

4. Sort the properties by score, largest to

Attribute Rankings

Vacant	14
Property Type	13
Ward	12
Quadrant	11
Door Count	10
Blighted	9
Foreclosure	8
Square Feet	7
Number of Bedrooms	6
Voucher Rate	5
Year Built	4
Assessed Value	3
Value Per Unit	2
Taxes Owed	1

Top 10 Properties

Sorted Addresses	Scores
4236 6TH ST SE, WASHINGTON, DC	687.7922
700 BRANDYWINE ST SE, WASHINGTON, DC	540.2808
4232 6TH ST SE, WASHINGTON, DC	532.4292
0851 - 0853 YUMA ST SE, WASHINGTON, DC	385.0236
3200 13TH ST SE, WASHINGTON, DC	376.124
209 ATLANTIC ST SE, WASHINGTON, DC	350.1712
220 HAMILTON ST NW, WASHINGTON, DC	341.1978
6101 16TH ST NW, WASHINGTON, DC	282.585
1325 W ST NW, WASHINGTON, DC	273.3991
1208 EVARTS ST NE, WASHINGTON, DC	272.0716

6 SE, 1 NE , 3 NW

Decision Matrix - Model Sensitivity

Old Rankings

Vacant	14
Property Type	13
Ward	12
Quadrant	11
Door Count	10
Blighted	9
Foreclosure	8
Square Feet	7
Number of Bedrooms	6
Voucher Rate	5
Year Built	4
Assessed Value	3
Value Per Unit	2
Taxes Owed	1

New Rankings

Blighted	14
UnitCnt	13
Ward	12
Quadrant	11
PropertyType	10
Vacant	9
Foreclosure	8
YearBuilt	7
AssessedValue	6
ValuePerUnit	5
TaxesOwed	4
VoucherRates	3
NumberOfBedrms	2
SquareFeet	1

New Top 10

4236 6TH ST SE, WASHINGTON, DC
4232 6TH ST SE, WASHINGTON, DC
700 BRANDYWINE ST SE, WASHINGTON, DC
0851 - 0853 YUMA ST SE, WASHINGTON, DC
220 HAMILTON ST NW, WASHINGTON, DC
1325 W ST NW, WASHINGTON, DC
3200 13TH ST SE, WASHINGTON, DC
209 ATLANTIC ST SE, WASHINGTON, DC
6101 16TH ST NW, WASHINGTON, DC
0135 KENNEDY ST NW, WASHINGTON, DC

What changed?
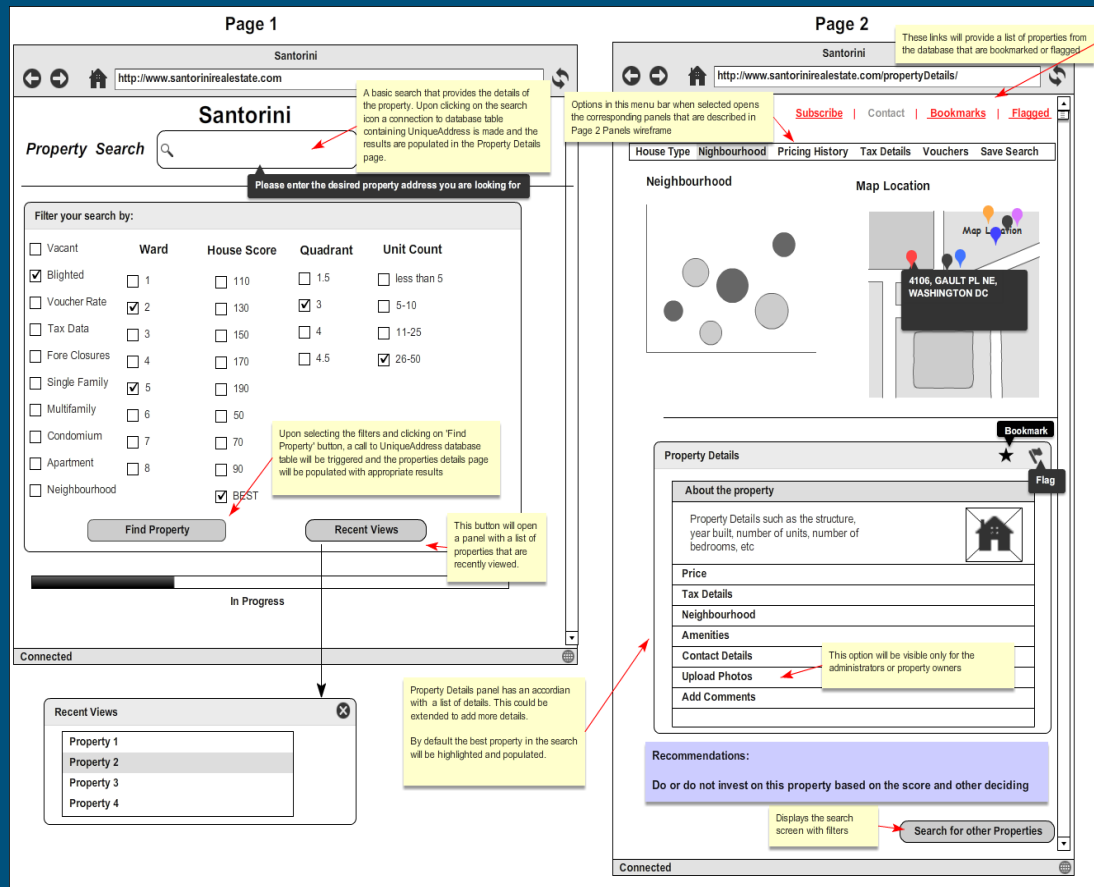**6 SE, 4 NW**
1 new property

UI/UX

User Interface Design increases the usability of the product.

Reflects the background technical details in business understandable form

Easy to interact and self explanatory, extensible

Strong enough to sense the user interactivity and how the product reacts back to the inputs

Street view with other options