

EE / CprE / SE 491 – sdmay19-07

Real Estate Portfolio Optimization

Weekly Report 16

Monday, March 25 – Sunday, March 31

Client: Principal

Faculty Advisor: Chinmay Hegde

Team Members

Blake Roberts - Project Manager / Backend
Colton Goode - Meeting Scribe / Backend
Kevin Johnson - Quality Control / Frontend
Leelabari Fulbel - Meeting Facilitator / Frontend
Nickolas Moeller - Report Manager / Backend

Past Week Accomplishments

- User Testing Plan - Nick
 - Detailed how we are going to use the compiled data from the user testing process
 - Fixed and altered the Testing Form
- Dash
 - Finalize Power BI authentication approach for embedding the report
- Power BI reports
 - Comparison report is ready for dataset
- Optimization Engine
 - User Constraints

Individual Contributions

Team Member	Contribution	Week Hours	Total Hours
Blake Roberts	User constraints and finalize Power BI authentication approach	6	106
Colton Goode	Created endpoints to create, update, and refresh datasets in powerbi via the REST API	6	110
Kevin Johnson	Efficiency Frontier report	6	103
Leelabari Fulbel	Added capability for saving region and market property constraints. Completed saving links as constraints as files	6	104

Nickolas Moeller	User Testing Plan	6	108
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Pending Issues

- Python extension for VS code bug
(<https://github.com/Microsoft/vscode-python/issues/5005>)
- Kevin
 - Need to figure out how to format data from csv into efficiency frontier graph
- Evaluate User Testing Plan and Form with clients

Plans for Coming Week

- Rework database to Power BI script to output information for efficient frontier
- Kevin
 - Continue working on Efficiency Frontier graph
 - Help with pushing datasets into power bi
- Leelabari will be working with Cole to get the data for PowerBI from the database. The goal will be to get the constraints sent to powerBI dynamically.
- Go over Testing Form and process with clients

RASIC

R: Responsible

- The team member primarily responsible for the task's completion.

A: Approve

- The team member responsible for approving the task's completion.

S: Supporting

- The team member(s) who support the task's completion.

I: Informed

- The Principal team member(s) who are informed of decisions, progress, and completion associated with the task.

C: Consulted

- The Principal team member(s) who serve as Subject Matter Experts or key stakeholders for the task or project as a whole.

Past Week RASIC:

	Team Members					Principal Team		
Task	Blake	Cole	Kevin	Lee	Nick	Ben	Jonathan Ling	Jonathan Frank
UI Constraints to Database	S			R				
Database to Power BI events interface		R						
PBI Dashboard			R					
Finalize Power BI Embedded authentication approach	R							

Next Week RASIC:

	4/1/2019							
	Team Members					Principal Team		
Task	Blake	Cole	Kevin	Lee	Nick	Ben	Jonathan Ling	Jonathan Frank
Rework database to Power BI script to output information for efficient frontier	R							
Efficient Frontier in Power BI report			R					
Design and utilize API for sending data to Power BI		S		R				
User Testing					R		S	
Complete functionality of API for sending data to Power BI		R		S				