

Final Project: Project Plan Assignment

Yashar Mansouri, Joshua O'Steen, Christopher Hoffman

3/28/2021

Housing Market Analysis Group Project Plan

App Title and Names of your group members (1)

- Housing Market Analysis of NYC Neighborhoods
- Joshua O'Steen, Yashar Mansouri, Christopher Hoffmann

Description of the problem to be analyzed in the Shiny App (1)

- General purpose shiny app that displays housing market trends (e.g., median house prices both listed and sold and median apartment rent) for NYC neighborhoods to the benefit of consumers and real estate investors.

Proposed data sources. (1)

- The data can be found on StreetEasy Data

Concept for the Shiny App

Overall Layout (1)

- Main visualization tab with various user input choices
- Map visualization displaying data on NYC neighborhoods
- Time series graphics for rent and sales data going

Data Analysis and Visualization with User Choices and Results (2)

- line plot time series - avg rent price - avg income per year - avg home sales price per year

Statistical Modeling with User Choices and Results (2)

- mean
- median
- linear regression to predict in the next few years

If group has only 413 students, the points go to Data Analysis and Visualization

Allocation of Responsibilities for the team (1)

- Yashar (Data cleaning/Analysis/Statistical Modeling)
- Joshua (Data Analysis/cleaning/shiny app construction)
- Christopher (Data analysis/cleaning/shiny app construction)

Project Steps/Schedule (1)

Note: weekly meeting on Sunday

March 28 – project plan created

April 4 – have all relevant data available, combined, and start the cleaning process.

April 11 – Start creating the layout and basic elements of our app.

April 18 – Continue creating shiny app with a focus on implementing the data. The data cleaning and process should be done at this point. All data should be usable.

April 25 – Continue working on Shiny but be mostly finished. Begin stylization of shiny app and making it look “clean”.

May 2 – Clearing up anything that needs to be worked on. Quality check and ensure it is good to go.