

Proposal

- **Project Title**

- Housing market in US

- **Team Members**

- Wen Yin
- Thidar Swe Tin
- Sunmin Lee

- **Project Description/Outline**

- There may be some factors that affect the housing prices in the US. This project will examine correlations between the various factors and rank them according to their impact on the housing prices.

- **Research Questions to Answer**

- Measure the changes in house prices over the last decade
- Track the correlation of housing prices with
 - Income levels
 - Population
 - Weather
 - Crime rate
- Predict house prices for the next 5 years for the top 10 US states
 - Michigan
 - Colorado
 - Texas
 - California
 - Massachusetts
 - Idaho
 - Ohio
 - Kansas
 - New York

- New Jersey

- **Data Sets to be Used**

- Google Maps API
- Home Junction Inc API
- Open Weather API
- Census Data API and Income CSV
- FBI Crime Data API

- **Rough Breakdown of Tasks**

- Using API
 - Google Maps API: All
 - Home Junction Inc API: All
 - Open Weather API: Wen
 - Census Data API and Income CSV: Thidar
 - FBI Crime Data API: Sunmin
- Dataframe into CSV: All
- Analysis: All
- Plotting: All
 - Scatter plot: check pattern of raw data
 - Boxplot: check outliers
 - Heatmap: check relationship
 - Bubble: check relationship between top 10 states and housing prices grouped by income level