**Project 3 Proposal**

**Group members:** Alistair, Joshua and Neha

**Project Description/Outline:**

Comparison of property prices across states in Australia filtering different property types and comparing the trend against the RBA interest rate movement on a monthly view between 2018 to 2021

**Research question:**

Finding out any correlation between the property price movements in various states against the movement in RBA rate decisions.

Visualisation will be broken down by property types (House, Units and Townhouse)

Monthly trend will be shown on graphs

Tables to display various properties according to state and month with 2018 to 2021 dataset.

**Research findings:**

Date Property sold

Price of Property

Suburb

State

Latitude

Longitude

Bedrooms

Property Type

**Dataset source:**

<https://www.kaggle.com/datasets/suryajadahake/australia-property-sales>

**CSV file - aus-property-sales-sep2018-april2020.csv**

<https://tradingeconomics.com/australia/interest-rate#:~:text=In%20the%20long%2Dterm%2C%20the,according%20to%20our%20econometric%20models.&text=In%20Australia%2C%20interest%20rates%20decisions,Reserve%20Bank%20of%20Australia's%20Board>

**API – extracting the latest RBA interest rate decision.**

**Breakdown of tasks:**

Extract:

- Extracting data files from website

- PANDAS for data wrangling rearranging data format

- Load modified data to SQLProgress

- Leaflet to map out locations across Australia

- Visualisation to filter out trends based on property type (House, Unit and Townhouse)

- Graph to show monthly movement with property price v interest rate movement