**Project Title:**

Realty to Reality – The search for your dream home ends now!

**About the project:**

The primary objective of this project is to create a MySQL Database which would help people figure out what it would cost them to buy a property or home in the counties in and around Boston in the next 12 months. The project comprises data scraped from various real estate and property marketplaces like Zillow, Realtor.com, Trulia, Apartments.com, FSBO.com, etc. This database differentiates itself from the competition by taking into consideration numerous factors such as target audience, median annual income of the audience, the median cost of a standard 1000 sqft house in the counties, proximities to essential infrastructure like public schools, hospitals, and health centers, ease of transportation, proximities to the technology hub, the safety of the neighborhood, noise, and community, interest rate for mortgages, rental yields, the estimated payment and costs towards the end user, etc. All related data would be procured from trusted online webpages and research companies.

The database would act as a foundation for the aggregation of major online real estate marketplaces. With all the complexities taken care of, this database could be the foundation of becoming an online real estate database aggregator mobile application of web portal shortly.

**Project Features:**

* Matching home finders to the home suitable to their requirements, budget, preferences, etc.
* Listing and ranking popular residential localities based on the demographic of buyers
* Listing and ranking popular localities and counties with the average cost of purchasing a single-family house
* Listing details of specifications of the property such as type of house, year of construction, housing society and maintenance fees, construction area, price of land, etc.
* Details of the lister, realtor, MLS PIN (if applicable), and other property details

**Technologies used:**

* MySQL for database management
* Python for web scraping
* Microsoft Excel and Outlook for project operation/execution

**Future Scope:**

* Dataset can be used as a practical use case for users looking to buy a property by doing a comparative analysis of preferred parameters
* Expansion of the database by including the Boston Combined Statistical Area, Northeast Megalopolis, or Northeast Corridor (world's largest megalopolis in terms of economic output, 2nd largest in terms of number of residents)
* Creation of an automated data pipeline for ease of access to information, insights, and decision making
* (Potential) Apply machine learning model for predictions

**Team Members:**

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