

# Requirements analysis

Our application will have a scraper that has to extract and collect as much information as possible from the web about real estate. The extracted information about the products will be: product features (what can be found about the type of real estate, the floor, the size, the location, the year of construction, and other specific features) and the price associated with that specific type of product over time.

Using this scraper, we will create a dataset that will contain all the information. The dataset will be structured as described in the diagram class.

Also, our application will have an algorithm based on machine learning that will match the identical products collected from different pages.

Another feature of our application will be the possibility of evaluating/predicting the price after some time for an existing product or a product customized by us, using a machine learning algorithm with the disponible dataset.

Using the dataset, we will make different graphics in which we will show the visual evolution of price for each product. From the application, the user will be able to select the category of real estates and see the evolution of price for real estates in the same area.

Also, the application will give the possibility to compare the products.

Our goal will be to design in detail and implement all the features presented above, and we will try to finalize it this semester.