

COMP9322

Software Service Design and Engineering

Due Date: 9 April 2018

Prediction Business Case – Team Assignment

Assume that you are working for a house price prediction company. You decided to develop Microservices to transform your business to an online decentralized form that will serve to your individual or organizational customers.

1 - Model the Business Case given below using the eEPC notation.

2- Identify potential Microservices to automate the Business Case.

3- Report your findings. The report should include:

- The processes in eEPC, identified Microservices, discussion of your rationale to have the Microservices you defined.
- Discussion on how you performed the modeling? (Who, when, what was the required total effort).
- Discussion of how/if the modelling was useful for identifying potential Microservices.

Business Case

Our business is predicting residential property price for our clients. We work with clients on a property or region basis.

Customers identify themselves to the system through a web page or through the mobile app.

Once the customer is identified we get and record information from customers that include the region or the address of the property, period of interest, precision required, etc. Customers have 2 options:

- manually select the data sets and the prediction models they would like to associate with their query
- let the system automatically identify the data sets to be used and the most suitable prediction models to be applied for the customer based on their profile.

Customers can save and edit these queries and access them later. Based on the selected query, we determine the cost and get approval from the customer. We import the data sets to be used for prediction and make the necessary pre processing to eliminate noise on the data set and import the related fields. We then apply the prediction models, generate related reports and send them to the customer.