

COMS3002 - Software Engineering

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1 Expanded Description

Customer

Allow customer to enter/modify data about their ideal home, then use this data entered by the to identify home owners with similar preferences. Using a DB of these homeowners, produce a neural network for the customers profile to help determine the locations where they're most likely to be happy. The algorithm will produce a list of homes that may best suit the customer, only accessible by the Real Estate Broker/Manager.

Real Estate Broker (REBroker)

REBrokers must be able to see the homes that the recommendations algorithm produced and the likelihood of the client being happy in each of those homes. They must be able to alter the importance of specific criterion/preferences (i.e. alter the the importance weighting of each attribute). They must also be able to add/remove houses that are to be sold or are no longer to be sold. And Lastly they must be able to alter viewing times for each house, this includes canceling, adding and/or marking as taken.

Real Estate Manager (REManager)

REManagers must be able to add/remove REBrokers/Agents as well as review and manage the company's finances, that is perform accounting/auditing services.

2 Input/Outputs

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- Customers input home preferences.
- Brokers input houses and viewing times.
- Manager inputs new brokers/agents and company finance updates.

Outputs

- List of homes that suit the customer and the likelihood of happiness (satisfaction) in those homes.
- Viewing times for each house.
- Finances of the company.
- List of customers looking for homes and their preferences.
- List of registered brokers/agents.

3 Group Member Roles

Aobakwe Mosweu

- Frontend
- In charge of front-end development and web-app design.
- In charge of designing the Customer system.

Dario Vieira

- Backend
- Incharge of database design.

- In charge of design and creation of neural network used for home recommendations.

Seale Rapolai (GL)

- Frontend/backend
- Handles creation of APIs that connect backend and frontend
- In charge of designing the Real Estate Brokers system.

Wade Downton

- Frontend/backend
- Handles creation of APIs that connect backend and frontend
- In charge of designing the Real Estate Manager system