

Demo Document

COMP 9321 Assignment 2 / Tanelka Group

Use cases of our API are:

- Registers a new user (POST /users)
- Authenticates a user and creates a JWT (POST /tokens)
- CRUD operations on the property dataset:
 - Creates a property (POST /properties)
 - Show list of properties (GET /properties)
 - Support filtering and sorting by property attributes
 - Show a property (GET /properties/{id})
 - Updates a property (PATCH /properties/{id})
 - Replaces a property (PUT /properties/{id})
 - Deletes a property (DELETE /properties/{id})
- Predicts the rent price of a property with specified attributes (GET /properties/predict_price)
- Replaces/Retrains the ML model (PUT /model)
- Shows ranking of local government areas by various metrics:
 - Average rent price (GET /local_government_areas/price_ranking)
 - Average rating given by Airbnb tenants (GET /local_government_areas/rating_ranking)
 - Monthly average number of crime offences (GET /local_government_areas/safety_ranking)
 - Monthly average unemployment rate (GET /local_government_areas/unemployment_ranking)
- Shows API usage summary (GET /usage_summary)
 - Support filtering by date interval
 - Support filtering by user ID