

For this exercise:

Please use any choice of technology. We would prefer it to be Node.js and RDBMS (mysql or postgres). Please use any choice of architecture pattern – either a standard server side rendered web-page or Web-API that is used by JavaScript on the page. We would like to see if you can reason your choice. Please try do have your code unit-tested or have some form of automated testing in it. Please do use a version-control system (preferably git -- you can do share it over bitbucket or just zip the whole folder including the. git folder)

Attached is the json file with the data in. (exerciseData.json)

Background: As an Account manager at HostMaker I want to be able to manage all property details.

Story 1: As an Account manager at HostMaker I want to be able to Get/Create/Update/Delete the property details.

For this exercise the property details have following fields:

- 1) Host(Required)
- 2) Address
 - a. Line1 (Required)
 - b. Line2 (Optional)
 - c. Line3 (Optional)
 - d. Line4 (Required)
 - e. Postcode (Required)
 - f. City (Required)
 - g. Country (Required)
- 3) NumberOfBedrooms (mandatory & ≥ 0)
- 4) NumberOfBathrooms (mandatory & > 0)
- 5) AirbnbID (must have a valid airbnb_id. Example: 2354700 is a valid airbnb-id because when we go to the link. We get a <https://www.airbnb.co.uk/rooms/2354700>, 200-OK response. Whereas if we go to something random like <https://www.airbnb.co.uk/rooms/242424242424> - we get 302. So ideally we would like the server to ping airbnb and check if it exists. Airbnb does block repeated http requests from same IP. So might want to consider a strategy to handle that. Airbnbld's dont change that often.)
- 6) IncomeGenerated (Required & > 0)

We need to publish restful Api/s to manage this data. For creating and updating properties, we need to make sure the persisted data is valid. So ensure that business rules are respected.

Backend Role:

Bonus Story:

We would like to see the various version of the properties are persisted in the database. So that we know how the property data evolved.

Ex --

First version

Carlos	Flat 5 7 Westbourne Terrace W2 3UL London U.K.	2000.24£	3512500	1	1
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Second Version

Carlos	Flat 5	3000£	3512500	1	1
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	7 Westbourne Terrace W2 3UL London U.K.				
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From Hostmaker prospective, properties data is important and tracking changes on it is crucial. So we would like to save all versions of the properties in the database atleast from audit perspective.