Skill 09  
Test Project Database design

Specification of proposed database   
for Marathon Skills 2016

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## BACKGROUND TO PROPOSED DATABASE

Marathon Skills 2016 will be held in New Zealand. The organisers are going to offer accommodation packages to runners and supporters. There will be a variety of options and your task is to design a database to help manage all of the accommodation options.

Refer to the notes below about the requirements of the database.

***NOTE:*** *You do* ***NOT*** *have to build the database. No data is required. You need to provide an ERD and data dictionary that define the database.*

### There will be different types of accommodation:

* Hotel
* Apartment
* Homestay *(This is when the guest will stay in the home of the owner. The owner will remain in the property at the same time.)*
* Home lease *(This is when the owner will vacate their own home and let the visitors rent it for a period of time.)*
* Camping ground *(The visitors may stay in tents that have been provided or they may just reserve a camping site and bring their own tent.)*

### Information that may be stored about each type of accommodation:

* Number of bedrooms
* Number of bathrooms
* Star rating (unrated, 1, 2, 3, 4 or 5 stars)
* Is there a bath?
* Is breakfast included?
* Is parking available?
* Is there Wi-Fi?
* Is there cable TV?
* Are children permitted?
* Is there access for disabled visitors?
* Are pets permitted?
* Extras – e.g. swimming pool, sauna, spa, gym
* Anything else you think is relevant

### Manager / owner details

* For hotels, apartments and camping grounds you need to store the following details: manager name, contact address, phone number, fax number, email address, and office opening hours.
* For homestay and home lease you need to store the following details: owner name, contact address, phone number, and email address.

### Cost structure

#### Hotels

Marathon Skills has negotiated set rates depending on the number of stars a hotel has. This means that all 5 star hotels will charge the same over the marathon period, so will all 4 star hotels, etc.

Guests pay a nightly rate per room. There might be an additional charge for an extra person in a room. This charge might be different if the extra guest is a child. Some hotels offer a weekly rate.

#### Apartments

Guests pay a nightly rate per apartment. Some apartments offer a weekly rate.

#### Homestay

The owner will charge a nightly rate per room.

#### Home lease

This type of accommodation has minimum stay periods – e.g. 5 days or 1 week.

#### Camping ground

Guests pay a nightly rate per camp site, regardless of how many people stay there.

If a visitor wants to hire a tent, then the cost depends on the type of tent. Camping grounds offer the following types of tent:

* 2 person tent
* 4 person tent
* 6 person tent
* Luxury tent

Tents are hired at a nightly rate based on the type of tent.

### Photos

Each type of accommodation can have multiple photos stored for it.

### Reservations

The database will need to hold details of dates that each property is available to be booked.

The database must store details of reservations. A guest might be asked for a deposit when they book.

The following details need to be stored about a guest making a reservation: name, email address, phone number, home address, and their role at Marathon Skills 2016 (competitors, supporters, etc.).

### Packages

The organisers of Marathon Skills 2016 have put together some packages for tourists. The different types of packages include a combination of items, such as:

* Tours
* Meal vouchers
* Tickets to opening and closing parties
* Transport to the race
* Supporters’ kits. There will be different kits available that are custom made for specific countries – each kit will include items such as flags, hats, banners, stickers, etc.