

Viagogo Limerick is a web app designed for the graduate developer test.

Firstly, here are screenshots for the web, which should meet all requirements.

viagogo in Limerick

Dear User Profile

Add Event & Location

Clear Events & Locations

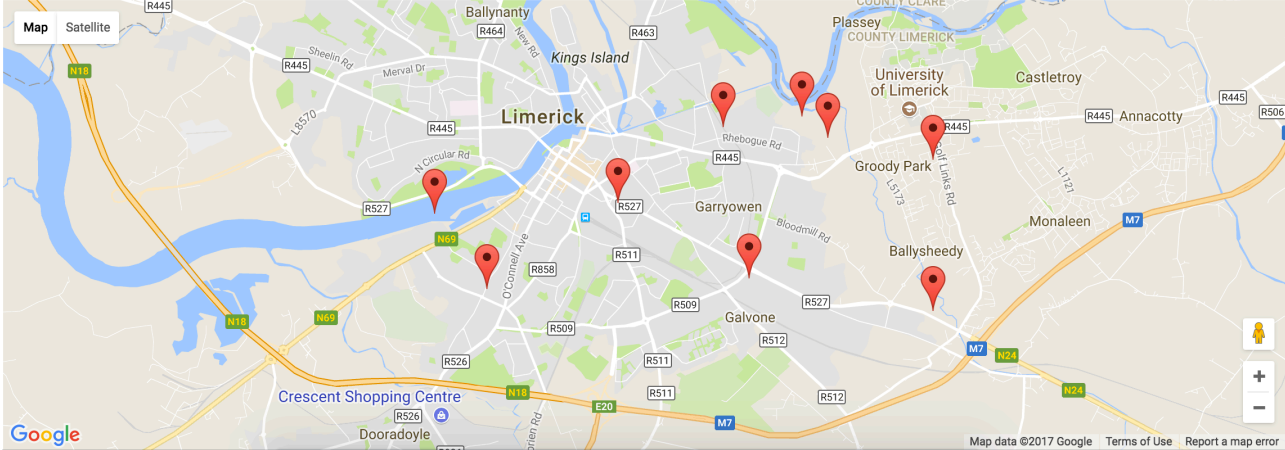
Enter the value of X axis (from -10 to 10)

0

Enter the value of X axis (from -10 to 10)

0

Find Nearest Events



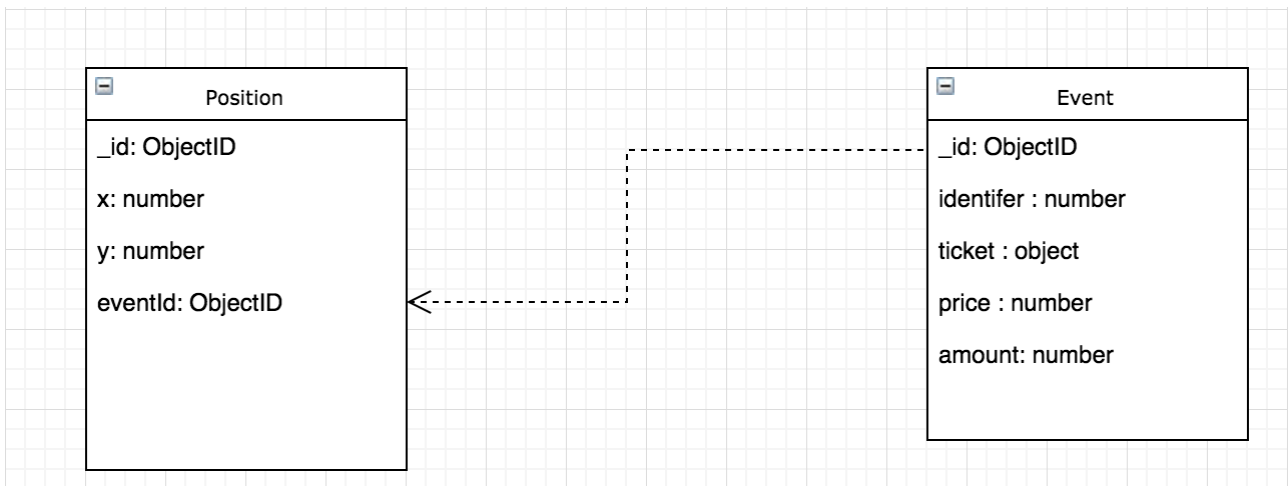
Event ID	Ticket Price	Ticket Amount		
2	\$ 13	73	<div>Details</div>	<div>Book</div>
1	\$ 12	72	<div>Details</div>	<div>Book</div>
7	\$ 21	89	<div>Details</div>	<div>Book</div>
3	\$ 4	9	<div>Details</div>	<div>Book</div>
5	\$ 16	77	<div>Details</div>	<div>Book</div>

Note: user needs to add data with the green button firstly.

Requirements

The world range is built based on the **Google Map Api** with Limerick Train Station (52.6580, -8.6150) as the centre. The co-ordinates (x, y) would switch to (longitude, latitude) at a suitable ratio. Any new positions can be put in the map as a red pin as the screen shots shown above. Manhattan distance could be calculate with (x, y) coordinates directly. In the future, the web app could change any other city as the centre with google map for code reusability.

Google Api Key: AlzaSyDN19lgBT-tDUot7aqe4uQCsn6Zv2njSnE

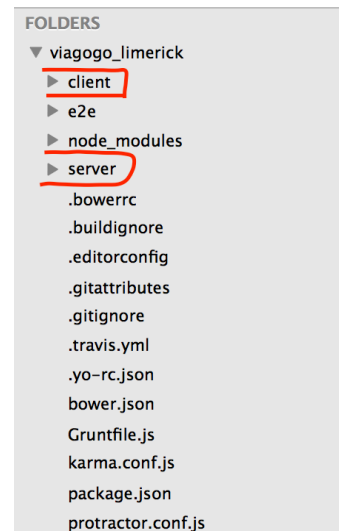
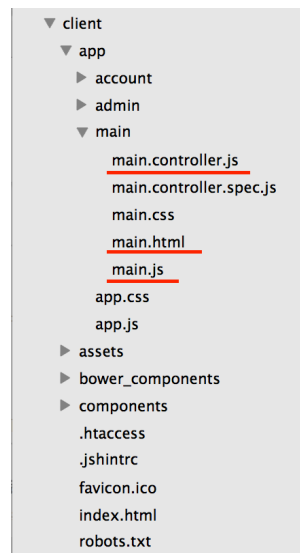
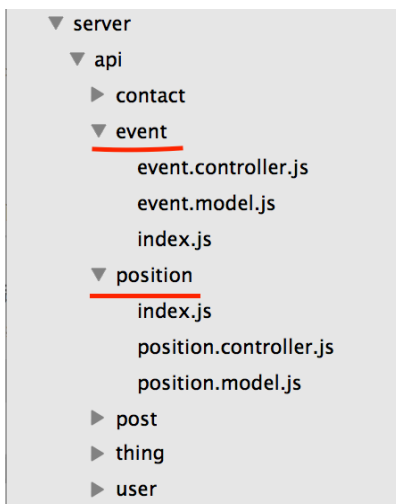


As we can see in the class diagram, the event has its own id, which is a foreign key in the table 'Position'. When we find the nearest position, we can fetch the eventId to get event details from server. In particular, eventId could be null. That is to say, the position does not have an event yet. If there are more than one event in one position, the type of eventId could be set to array.

App Structure

Backend: NodeJS + Express + MongoDB + NPM + Grunt

Frontend: AngularJS + HTML + Bower



How to Run:

In macOS, enter the directory of “viagogo_limerick” and enter “grunt serve”.

The browser would automatically open with url “http://localhost:9000”.

