Mobile Backend Development

Lab - Restful API (2)

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Restaurant

- Name
- address
- image_url
- avg_rating
- Delivery hours…
- Opening time

Food

- Name
- price
- promo_price
- Description
- image_url

1 Restaurant have many foods
1 restaurant have many reviews
1 order can have many orderItem
1 orderItem can have many food
1 restaurant has many order
1 Order can have one restaurant
1 food has one restaurant…
1 user can have many review
1 user can have manu orders..

Review

- Name
- date
- rating
- comment

OrderItem

- Food
- Quantity
- notes

Order

- OrderItem
- Billing
- User
-

User

- name
- email
- Phone number
- address
-

Database Action	Route / url	Method
Create	/places	POST
Read - GET all - Get a particular place from db	 /places /places/:id	GET
Update	/places/:id	PUT
Delete	/places/:id	DELETE

Places

- Name
- Description
- Email
- Phone number
- rating...

Review

- Name
- date
- rating
- comment

1 place have many reviews
1 review belong to a particular place

Routing

Operation	Route	Method
Create	/places/:place_id/reviews	POST
Read	All - /places/:place_id/reviews Particular id - /places/:place_id/reviews/:review_id	GET
Update	/places/:place_id/reviews/:review_id	PUT
Delete	/places/:place_id/reviews/:review_id	DELETE

New average rating = (averagerating * rating.length) + newrating / (rating.length + 1)

= (0 * 0) + 5 / (0 +1) = 5

= (5 * 1) + 3 / (1 + 1) = 4

= (4 * 2) + 4 / (2 + 1) = 4

= (4 * 3) + 2 / 4 = 3.5

Mini Projects

- You will need to build an API based on scenario given.
- You have to identify the requirement, some scenarios require a database and some will not.
- The projects need to be deployed to Heroku.

Timestamp API

Build a full stack JavaScript app that is functionally similar to this: **https://timestamp-ms.herokuapp.com/** and deploy it to Heroku.

I can pass a string as a parameter, and it will check to see whether that string contains either a unix timestamp or a natural language date (example: January 1, 2016).

If it does, it returns both the Unix timestamp and the natural language form of that date.

If it does not contain a date or Unix timestamp, it returns null for those properties

URL Shortener

Build a full stack JavaScript app that is functionally similar to this: **https://little-url.herokuapp.com/** and deploy it to Heroku.

User Story: I can pass a URL as a parameter and I will receive a shortened URL in the JSON response.

User Story: If I pass an invalid URL that doesn't follow the valid http://www.example.com format, the JSON response will contain an error instead.

User Story: When I visit that shortened URL, it will redirect me to my original link.

Request Header Parser API

Build a full stack JavaScript app that is functionally similar to this: **https://cryptic-ridge-9197.herokuapp.com/api/whoami/** and deploy it to Heroku.

I can get the IP address, language and operating system for my browser.