BEAUTIFUL BABE BOUTIQUE WEB APPLICATION

SERVICE LAYER DESIGN

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Introduction

For my backend Service Layer, I will be implementing a REST API using the Heroku Connect API. This be used for the interaction between my database in MongoDB and the User Interface. The languages and or frameworks I will use will be React, Redux, Node.js, Express, and Stripe for this e-commerce application.

To describe how my application will work within the Service Layer I will explain the different routes that the application can complete.

1. User Register/Create Login Route
2. Search Route
3. Cart Checkout Route

All the routes listed will be requested to interact with the database in MongoDB

User Create Route

User creates a login/Register a Profile

Method: POST

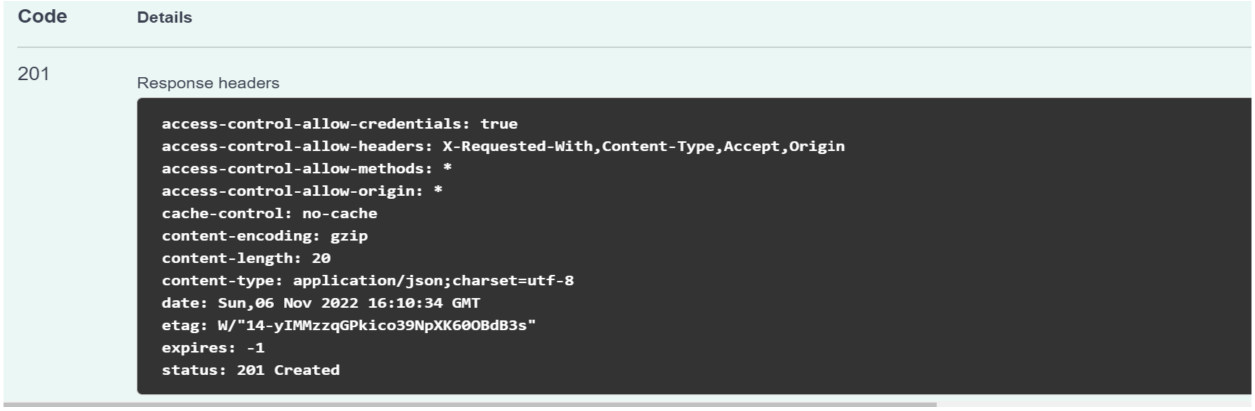
```
URL: https://beaugiebabe.herokuapp.com/api/register/:id
```

Purpose: when a user creates (POST) a login/password and information profile. This example input will be called. Once they hit the ''Register" button they will be directed back to the previous page the user was on and it will display in the right corner the profile that is logged in.

Example Request:

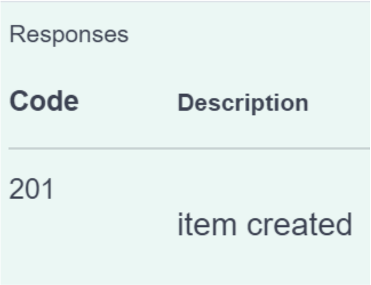
```
curl -X 'POST' \
  'https://virtserver.swaggerhub.com/beaugiebabe/beaugiebabe/1.0.0/loginandprofile' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
  "userid": string",
  "name": "string",
  "email": "string",
  "password": {
    "phone": "integer",
    "home address": "string"
  }
}'
```

Success Response:



Code	Details
201	Response headers

```
access-control-allow-credentials: true
access-control-allow-headers: X-Requested-With,Content-Type,Accept,Origin
access-control-allow-methods: *
access-control-allow-origin: *
cache-control: no-cache
content-encoding: gzip
content-length: 20
content-type: application/json;charset=utf-8
date: Sun,06 Nov 2022 16:10:34 GMT
etag: W/"14-yIMMzzqGPkico39NpXK60OBdB3s"
expires: -1
status: 201 Created
```



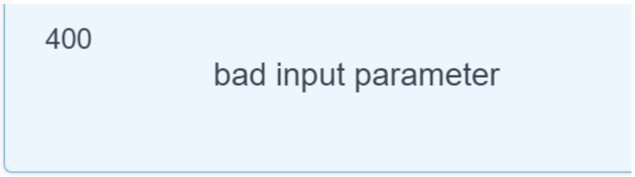
Responses

Code	Description
201	item created

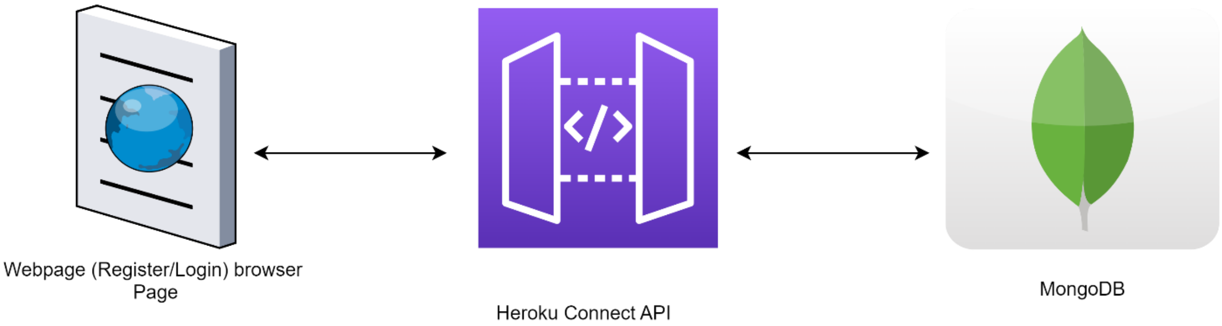
This is an example; it will read as User created.

Error Response:

No error response to display but it will tell the user what they are missing if the User did not complete the profile and their information. The site will not allow them to save the user login and will display a message in the fields that are missing information.



400	bad input parameter



Search Route

User Searches for a clothing(i.e.Dress) item

Method: GET

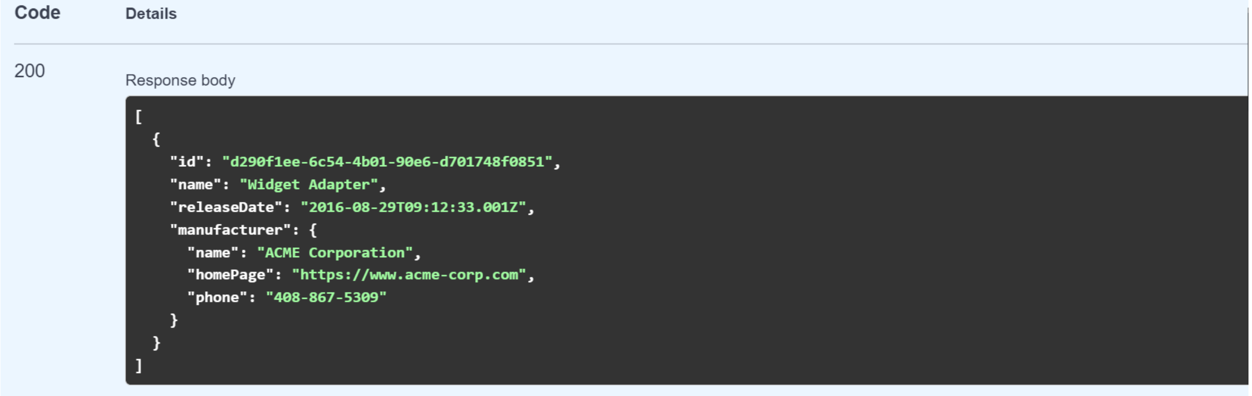
```
URL: https://beaugiebabe.herokuapp.com/api/dress/search:id
```

Purpose: When a user searches for a particular clothing item i.e. a dress. The request will pass through the Heroku API and MongoDB database to retrieve all search results of dresses. It will display on the search results page. The User will be able to search by type of item, color and size. This is a sample URL, it will be generated in Heroku.

Example Request:

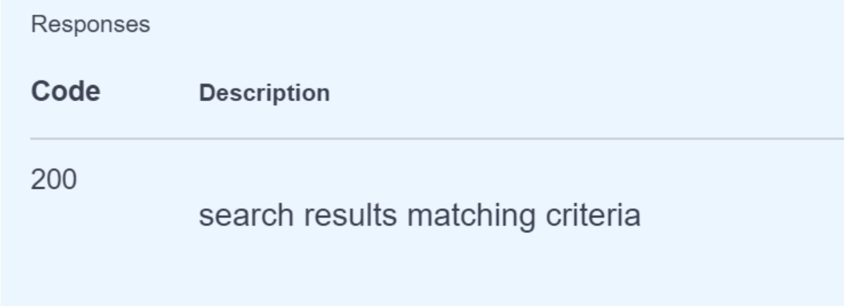
```
curl -X 'GET' \

'https://virtserver.swaggerhub.com/beaugiebabe/beaugiebabe/1.0.0/dress?searchString=dress&skip
=0&' \
  -H 'accept: application/json'
```

Success Response:



Code	Details
200	Response body

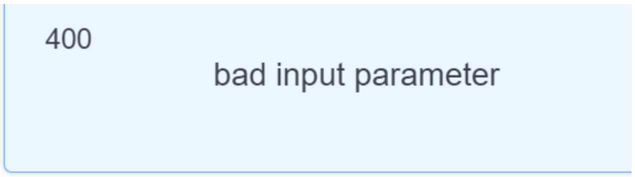
```
[
  {
    "id": "d290f1ee-6c54-4b01-90e6-d701748f0851",
    "name": "Widget Adapter",
    "releaseDate": "2016-08-29T09:12:33.001Z",
    "manufacturer": {
      "name": "ACME Corporation",
      "homePage": "https://www.acme-corp.com",
      "phone": "408-867-5309"
    }
  }
]
```



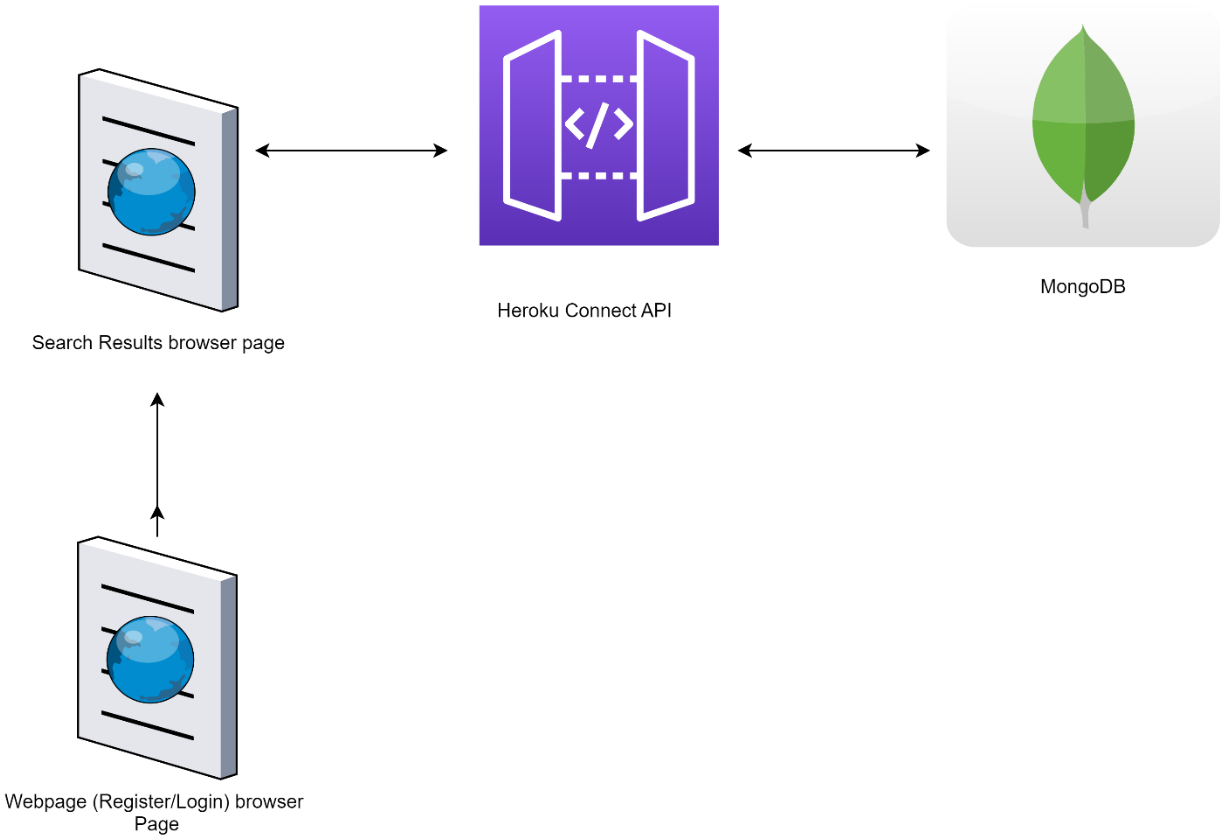
Responses

Code	Description
200	search results matching criteria

Error Response:



400	bad input parameter


Heroku Connect API
MongoDB
Search Results browser page
Webpage (Register/Login) browser Page

Shopping Cart Checkout Route

Shopping Cart Route

Method: POST

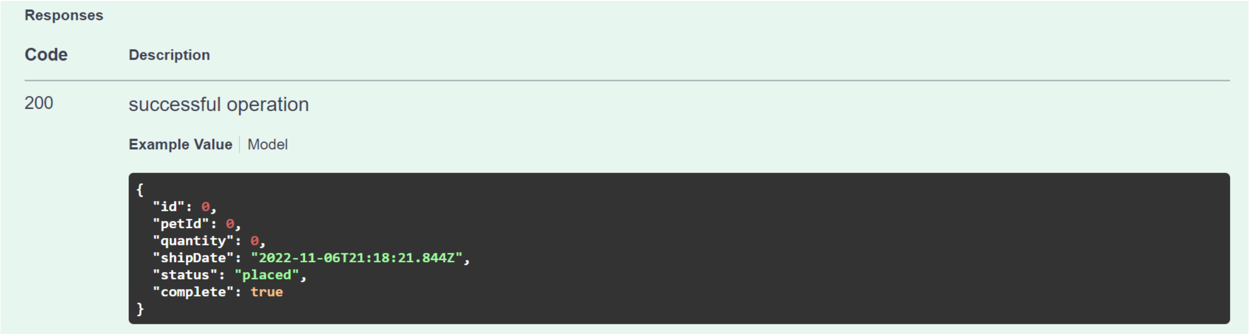
```
URL: https://beaugiebabe.herokuapp.com/api/cart:id
```

Purpose: The User will be directed to this URL to checkout with the items they added to the shopping cart. After the user hit the cart icon, the request will pass through the Heroku and then to MongoDB where it is storing the shopping cart information and items. It will allow an order to be created with a order number and direct the user to enter payment information. This will be done using stripe.

Example Request:

```
curl -X 'POST' \
  'https://besugiebabe.swagger.io/v2/checkout/request \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
  "order number": 0,
  "Total Items": 0,
  "Order Total": 0,
  "Request Date": "2022-11-06T21:18:11.558Z",
  "status": "Request Submitted",
  "complete": true
}'
```

Success Response:



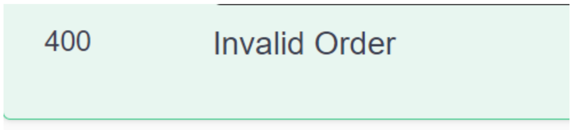
Responses

Code	Description
200	successful operation

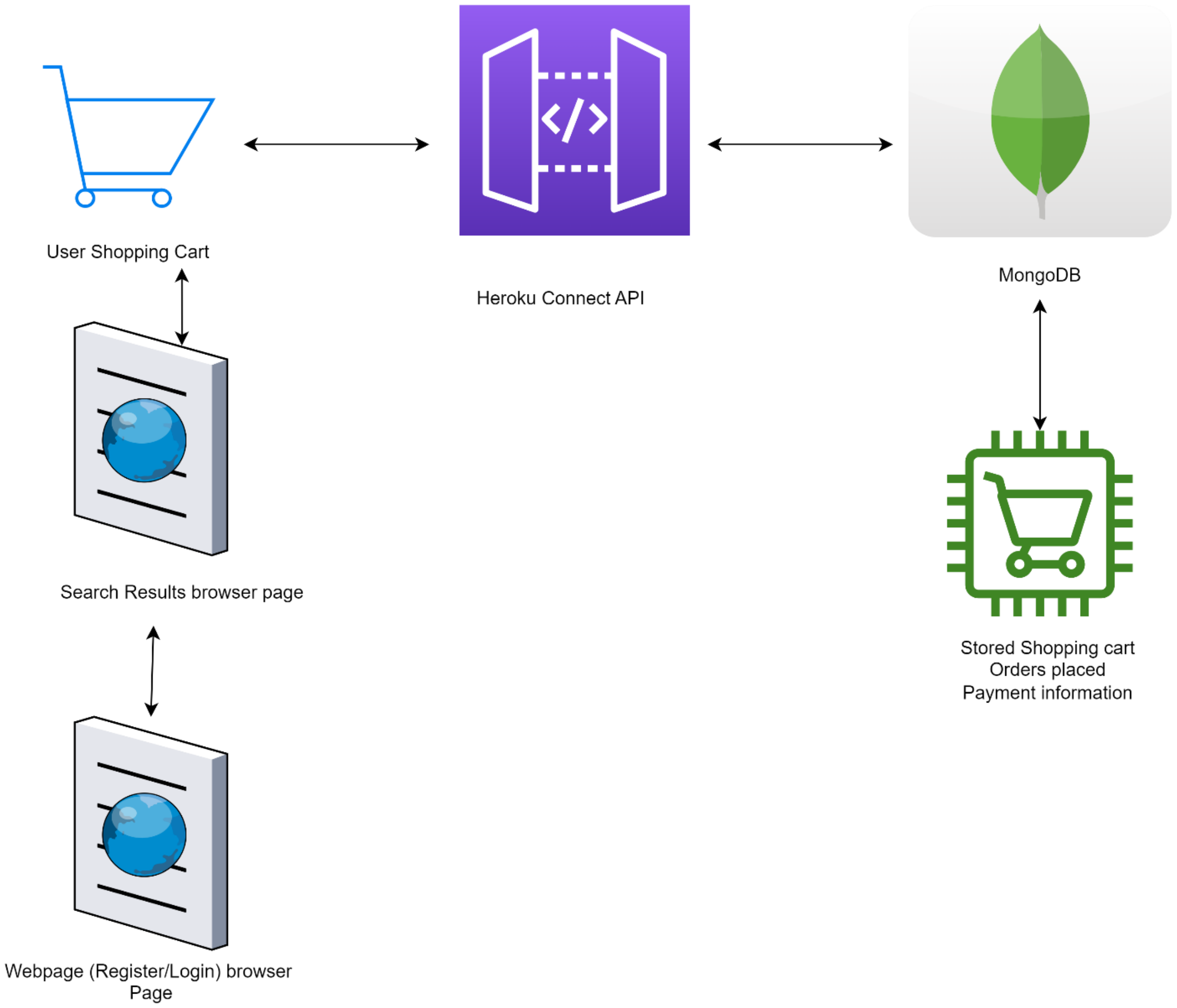
Example Value | Model

```
{
  "id": 0,
  "petId": 0,
  "quantity": 0,
  "shipDate": "2022-11-06T21:18:21.844Z",
  "status": "placed",
  "complete": true
}
```

Error Response:



400	Invalid Order


User Shopping Cart
Heroku Connect API
MongoDB
Search Results browser page
Stored Shopping cart
Orders placed
Payment information
Webpage (Register/Login) browser Page