

Service Layer for My Healthcare Resource Finder

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At a high-level I plan to implement RESTful API principles into my design. This will ensure that each of the endpoints are rendered setup with the appropriate type of call method and the appropriate results based on the requested parameters. Most of the application will depend on the GET method, though for the Contact Us page it will depend on using the POST method. The following will outline my structure, endpoints, type of call method, and the parameters it will use to either get or post data.

Website Structure

- Home page
- Medical Provider Search page
 - Search by City, Zip, or Specialty
- Community Health Center Search page
 - Search by City or Zip
- Behavioral/Mental Health Search page
 - Search by City, Zip, or Specialty
- Hospital Search page
 - Search by City or Zip
- About Us page
- Contact Us page

Endpoints and Parameters

The first endpoint being called would be that of the Provider Search page. This can be accessed by clicking the Healthcare Provider search icon from the Home page to find a Healthcare Provider. This first endpoint will rely on the GET method to fetch data from a database in order to display results to the user.

Web pages/endpoints	Home	About Us	Contact Us
Provider Search	GET		
- Search by City	GET		
- Search by Zip	GET		
- Search by Specialty	GET		
Community Health Center Search	GET		
- Search by City	GET		
- Search by Zip	GET		
BH Provider Search	GET		
- Search by City	GET		
- Search by Zip	GET		
- Search by Specialty	GET		
Hospital Search	GET		
- Search by City	GET		
- Search by Zip	GET		
Contact Us fillable form			POST

Endpoints:

//Healthcare Provider search by Provider ID – each Provider will be assigned a unique id

GET = 'https://healthcareresourcefinder/api/{providerId}'

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- Additional endpoints will be required should the user choose to perform a drill-down search by either city or zip
GET = 'https://healthcareresourcefinder/{providerId}/{city}'
GET = 'https://healthcareresourcefinder/{providerId}/{zip}'
GET = 'https://healthcareresourcefinder/{providerId}/{specialty}'

Parameters:

- providerId – unique identifier used to identify and retrieve the below fields for a unique Provider and/or Provider with multiple locations
- providerName – retrieves the Provider's full name
- providerSpecialty – retrieves the Provider's specialty (ex: Primary Care, Cardiology, Ophtalmology, etc.)
- providerDesc – retrieves the services rendered by the Provider
- providerAddress – retrieves the Provider's address
- providerCity – retrieves the Provider's city
- providerState – retrieves the Provider's state
- providerZip – retrieves the Provider's zip
- providerPhone – retrieves the Provider's phone number
- providerURL – if any exists for the provider it will retrieve the Provider's office url or patient portal

Endpoints:

//Community Health Center search by Facility ID – each Community Center will be assigned a unique id

GET = 'https://healthcareresourcefinder/api/{facilityId}'

- Additional endpoints will be required should the user choose to perform a drill-down search by either city or zip
GET = 'https://healthcareresourcefinder/{facilityId}/{city}'
GET = 'https://healthcareresourcefinder/{facilityId}/{zip}'

Parameters:

- facilityId – unique identifier used to identify and retrieve the below fields for a unique Provider and/or Provider with multiple locations
- facilityName – retrieves the Community Health Center's name
- facilitySpecialty – retrieves the Specialty(ies) rendered at each location
- facilityDesc – retrieves the services rendered by the Provider
- facilityAddress – retrieves the Provider's address
- facilityCity – retrieves the Provider's city
- facilityState – retrieves the Provider's state
- facilityZip – retrieves the Provider's zip
- facilityPhone – retrieves the Provider's phone number
- facilityURL – if any exists for the provider it will retrieve the Provider's office url or patient portal

Endpoints:

//Behavioral Health search by BH Facility ID – each facility will be assigned a unique id

GET = 'https://healthcareresourcefinder/api/{facilityId}'

- Additional endpoints will be required should the user choose to perform a drill-down search by either city or zip
GET = 'https://healthcareresourcefinder/{BHfacilityId}/{city}'
GET = 'https://healthcareresourcefinder/{BHfacilityId}/{zip}'
GET = 'https://healthcareresourcefinder/{BHfacilityId}/{specialty}'

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Parameters:

- BHfacilityId – unique identifier used to identify and retrieve the below fields for a unique Provider and/or Provider with multiple locations
- BHfacilityName – retrieves the Provider's full name
- BHSpecialty – retrieves the BH Provider's specialty (Psychiatry, Psychology, Social Work)
- BHDesc – retrieves the services rendered by the Provider
- BHfacilityAddress – retrieves the Provider's address
- BHfacilityCity – retrieves the Provider's city
- BHfacilityState – retrieves the Provider's state
- BHfacilityZip – retrieves the Provider's zip
- BHfacilityPhone – retrieves the Provider's phone number
- BHfacilityURL – if any exists for the provider it will retrieve the Provider's office url or patient portal

Endpoints:

//Hospital search by Hospital ID – each hospital will be assigned a unique id

GET = 'https://healthcareresourcefinder/api/{facilityId}'

- Additional endpoints will be required should the user choose to perform a drill-down search by either city or zip

GET = 'https://healthcareresourcefinder/{BHfacilityId}/{city}'

GET = 'https://healthcareresourcefinder/{BHfacilityId}/{zip}'

Parameters:

- HospitalId – unique identifier used to identify and retrieve the below fields for a unique Provider and/or Provider with multiple locations
- HospitalName – retrieves the Provider's full name
- HospitalSpecialty – retrieves the Specialty(ies) rendered at each location
- HospitalDesc – retrieves the services rendered by the Provider
- HospitalAddress – retrieves the Provider's address
- HospitalCity – retrieves the Provider's city
- HospitalState – retrieves the Provider's state
- HospitalZip – retrieves the Provider's zip
- HospitalPhone – retrieves the Provider's phone number
- HospitalURL – if any exists for the provider it will retrieve the Provider's office url or patient portal

Example GET:

```
"item": [  
  "name": "Get Provider listing",  
  "request": {  
    "method": "GET",  
    "body": {  
      "providerID": "12345",  
      "providerName": "John Smith",  
      "providerSpecialty": "family medicine",  
      "providerDesc": "Primary Care services",  
      "providerAddress": "123 W. ABC Dr.",  
      "providerCity": "Phoenix",
```

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```
"providerState": "Arizona",
"providerZip": "55555",
"providerPhone": "555-555-5555",
"providerUrl": "www.myDrOffice.com",
"language": "json"
}
    },
    "url": {
        "raw": " https://healthcareresourcefinder/{providerId}",
        "protocol": "https",
        "host": " https://healthcareresourcefinder/",
        "port": "5001",
        "path": "providerId"
    }
}
"response": []
```

Endpoints:

//Contact Us Form Submission – each form submission will be linked and assigned a unique ID

POST = 'https://healthcareresourcefinder{Id}'

Parameters:

- formId – unique identifier used to create a new line item in the database
- firstName – adds the user's first name as a column to the new line item created in the table
- lastName – adds the user's last name as a column to the new line item created in the table
- email – adds the user's email address as a column to the new line item created in the table
- phone – adds the user's phone as a column to the new line item created in the table
- category – adds a category based on a list provided within a drop-down that best fits the user's need to contact us.
- comments – adds the user's comments or suggestions as a column part of the new line item created in the table

Example POST:

```
"item": [
  "name": "Submit Form",
  "request": {
    "method": "POST",
    "body": {
      "formID": "0",
      "firstName": "string",
      "lastName": "string",
      "email": "string",
      "phone": "int",
      "Comments": "string",
      "language": "json"
    }
  }
]
```

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```
}  
},  
"url": {  
  "raw": " https://healthcareresourcefinder/api/{providerId}",  
  "protocol": "https",  
  "host": " https://healthcareresourcefinder/api",  
  "port": "5001",  
  "path": "formId" ]  
}  
"response": []
```

Types of Successful and Failure Responses:

- 200 – Successful response
- 405 – Invalid data provided
- 404 – No results found

