

Service Layer Design – Stick It

MVP Design

The Stick It application will use one service endpoint for the MVP, which will use the HTTP protocol. The goals to be accomplished by this endpoint will be to use information received from the user to contact the database to determine which hockey stick in the database matches their criteria. Then the data must be returned and posted to the user interface so that the users can view their results.

Endpoint One

The purpose of this endpoint will be to request data from the database of hockey sticks and receive a response of a single hockey stick.

Method: GET

Request URI: GET `http://www.stickit.com/hockey{parameters}`

Parameters:

- flex
- curve
- ageLevel
- price

The endpoint will utilize the HTTP method GET, as this is the method used to read or retrieve a resource.

Example Request URI: GET

`http://www.stickit.com/hockey?flex=100&curve=P98&ageLevel=senior&price=~lt~200`

Responses:

Code 200: Successful Operation

Example value:

`{id: 1,`

`name: "Bauer XCX",`

`flex: 100,`

```

curve: "P98",

ageLevel: "Senior",

price: 200,

purchaseLink: "www.purehockey.com/sticks/bauer/1",

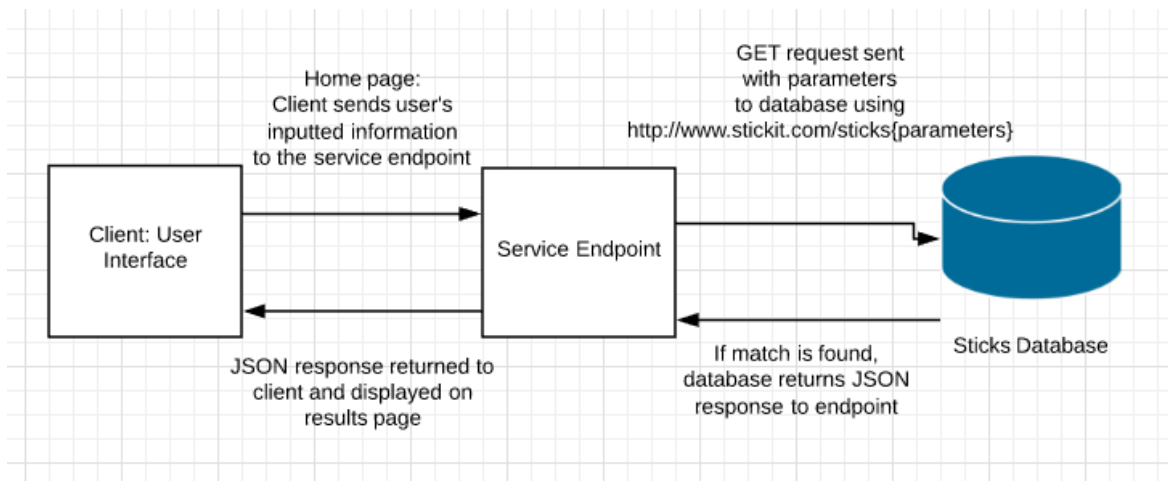
}

```

If no stick in the database matches the user's criteria, the user will receive the following response:

Code 404: Stick not found

Endpoint Diagram



Stretch Design

The Stick It application will use an additional service endpoint to implement a stretch feature, which will use the HTTP protocol. The goal to be accomplished by this endpoint will be to allow users to submit a new stick to the suggestions database by filling out information on the stick's name, flex, curve, age level, and price. That data will be posted in the database for the database administrator to examine and determine if that stick should be added to the Stick It application's main stick database.

Endpoint Two

The purpose of this endpoint will be to accept input from the user on the client side and post that data as new stick records to the database's suggestions table.

Method: POST

Request URI: POST <http://www.stickit.com/suggestions> HTTP/1.1

Host: www.stickit.com

Content Type: application/json

Request Body Example:

```
{name : "Warrior Covert QR Edge",  
  
  Flex: 60,  
  
  Curve: W01,  
  
  ageLevel: "junior",  
  
  price: 300}
```

Response:

Code 201: Created

Endpoint Diagram

