

Sharing API Uploading And Rating Components Documentation:

UPLOAD

The uploading component receives a HTTP request to upload a mouth pack and send its details to a database. The request contains a json object which has twelve images and accompanying details of the mouth pack. Mouth pack details include a title, a description and a category name under which the mouth pack is in – a mouth pack can have different categories. The title and description are sent to the Mouthpack database. Category name and category id are sent to the Category database.

Each image is received as a base64 string. The string is changed to an actual image and compressed using lossy compression. The compression resizes the dimensions of the image to 200 by 100. A check is done to determine if a folder named as the mouth pack title exists under the “mouthpacks /” directory. If it doesn’t exist, a new folder is created. The image is then stored under this folder. The image URL, mouth pack id and image id are sent to the MouthImage database.

Upload Request Format

Method : POST

The upload functionality of the API receives a json object with the following data;

```
{
  "requestType": "upload",
  "title": "mouthpack19",
  "category": "Monster",
  "description": "Monster mouth",
  "mouthImages":
  [
    {
      "formantLetters": "aei",
      "imageData": "BASE64 IMAGE STRING"
    },
    {
      "formantLetters": "ou",
      "imageData": "BASE64 IMAGE STRING"
    }
    //.....other objects with FormantLetters and imageData
  ]
}
```

```
}
```

RATING

The rating component accepts a json object containing a mouth pack id, a user id and a value(has to be a number).

If it's the first time the user has rated this mouth pack, these details are sent to the Rating database.

If its not the first time the user is rating the mouth pack, a query is done to acquire the old value that the user had rated on the database ; this value is added to the new received value and divided by two and then the database value is updated.

Rating Request Format

Method : POST

The rating functionality of the API receives a json object with the following data;

```
{
  {
    "requestType": "rate",
    "value": "5",
    "userID": "9632",
    "mouthpackID": "1395925821"
  }
}
```

DOWNLOAD

The download component receives http requests in json format and returns json objects of the retrieved data. Requests can be one of three types: requesting a single mouthpack(getMouthPack), requesting all mouthpacks(getAllMouthpacks), or requesting mouthpacks based on the desired category(getMouthpacksByCategory). The request all mouthpacks can be filtered and structured so that only specific mouthpacks will be retrieved. When requesting a single mouthpack the only detail required is the ID of the mouthpack. When the ID is received the corresponding mouthpack will be returned in JSON format containing all its details. These details include the name, description, date uploaded, categories, image URLs and its ratings.

Download Single Mouth Request Format

The format of the request will be as follows:

```
{
  "requestType" : "getMouthPack",
  "id" : 1395925821
}
```

This request will return an object in the following format:

```
[{
  "id" : "1395925821",
  "name" : "mouthpack19",
  "description" : "Monster mouth",
  "date" : "2020-03-28",
  "categories" : [
    //Categories will go here
  ]
  "images" : [
    http://urltoimage.jpg
    http://urltoimage.jpg
    ...
  ]
  "ratings" : [
    {
      "total" : 4
    }
    {
      "userID" : "9632",
      "value" : 5
    }
    {
      "userID" : "1234",
      "value" : 3
    }
  ]
}]
```

When requesting all mouthpacks, you can specify what exact mouthpacks you want in your request. This can include a search by name, description, or date search. You can also group and

order the results by specific categories. The only requirement is that when selecting a criteria to group or order by, the criterion name should match the exact column in the database table: these criteria are:

- mouthpackID
- mouthpackName
- description
- date

When describing the order of the objects it should specify one of the two options exactly: asc or desc.

Download All Mouthpacks Request Format

The format of the most basic request to get all mouthpacks is as follows:

```
{  
  "requestType" : "getAllMouthpacks"  
}
```

The format of a filtered and ordered request will be as follows:

```
{  
  "requestType" : "getAllMouthpacks",  
  "filter" : {  
    "criteria" : "mouthpackName",  
    "like" : "vampire"  
  },  
  "sortBy" : "mouthpackID",  
  "order" : "desc"  
}
```

This is a request to retrieve all mouthpacks that have a name that includes the phrase "vampire" in it. The mouthpacks will be sorted in descending order by their IDs.

Download Mouthpacks by Category Request Format

The reason why this request is separate from getAllMouthpacks is because this request is a bit more complicated than the aforementioned request and requires two additional queries therefore it was deemed necessary to make it a request of its own.

The format of the request is as follows:

```
{  
    "requestType" : "getMouthpacksByCategory",  
    "category" : "categoryName"  
}
```

This request will return all mouthpacks that are of the desired category.