

## API Specification

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This section lists the APIs which may be required to build this project. Slapchart would like to the developer to understand our suggested approach and provide their own feedback and/or revisions based on their expertise and experiences.

1. Section 1 - /api/producer – APIs specific to the Producer.
2. Section 2 - /api/beats – APIs specific to the Beats.
3. Section 3 – Database requirements.

## Section 1 - /api/producer/

Method	Endpoint	Authentication	Description
GET	api/producers/	Admin Only	Returns all the producers from the database

Method	Endpoint	Authentication	Description
POST	api/producers/	None	<p>Creates a new producer in the database.</p> <p>First should perform validations on the request. If all validations pass, a unique ID should be generated.</p> <p>With the unique ID as the “producerId”, the producer is saved in the database. This includes saving the base64 encoded photo</p>

### Validations:

- Producer name must be less than 32 Characters
- Producer name can't contain text like XxXxStr8FirexXxX
- Email must be a valid email
- Email must be less than 256 characters
- Twitter Name must be less than 16 characters
- Soundcloud Name must be less than 32 characters
- Photo must be a valid base64 encoded image
- Photo must be less than 4MB

#### Example Request Json:

```
{
  "producerName": "Metro Boomin",
  "email": "metroboominbeats@gmail.com",
  "twitterName": "MetroBoomin",
  "soundcloudName": "Metro Boomin",
  "photoBase64":
    "
    AwO/AwHVYZ/z595kzAP/s7P+goOXMv8+fhw/v739
    /f+8PD98fH/8mJl+fn/9ZWb8/PzWlwv///6wWGblm
    APgTElImfDEUvLyADj5AChSIQW6gu10bE/JG2Vn
    CZGfo4R4d0sdQoBAHhPjhIB94v/wRoRKQWGRHgrh
    GSQJxCS+0pCZbEhAAOw=="
}
```

#### Example Response Json:

```
{
  "producerId": 34,
  "producerName": "Metro Boomin",
  "email": "metroboominbeats@gmail.com",
  "twitterName": "MetroBoomin",
  "soundcloudName": "Metro Boomin"
}
```

Method	Endpoint	Authentication	Description
GET	api/producers/:id	None	Returns all fields of the producer for the given id. The photo field should instead return a link to where the photo can be retrieved.

#### Example Response Json:

```
{
  "producerId": 34,
  "producerName": "Metro Boomin",
  "email": "metroboominbeats@gmail.com",
  "twitterName": "MetroBoomin",
  "soundcloudName": "Metro Boomin",
  "photo": "/producer/34/photo"
}
```

Method	Endpoint	Authentication	Description
DELETE	api/producers/:id	Admin Only	Deletes a given producer in the database.  Deleting a producer should delete all their beats too.

Method	Endpoint	Authentication	Description
PUT	api/producers/:id	None	Modifies the fields of a given producer.  First should perform validations on the request. If all validations pass the fields should be updated. This request does NOT update the photo.

#### Validations:

- Producer name must be less than 32 Characters
- Producer name can't contain text like XxXxStr8FireXxX
- Email must be a valid email
- Email must be less than 256 characters
- Twitter Name must be less than 16 characters
- Soundcloud Name must be less than 32 characters
- Photo must be less than 4MB

#### Example Request Json:

```
{
  "producerName": "Metro Boomin",
  "email": "metroboominbeats@gmail.com",
  "twitterName": "MetroBoomin",
  "soundcloudName": "Metro Boomin"
}
```

#### Example Response Json:

```
{
  "producerId": 34,
  "producerName": "Metro Boomin",
  "email": "metroboominbeats@gmail.com",
  "twitterName": "MetroBoomin",
  "soundcloudName": "Metro Boomin",
  "photo": "api/producer/34/photo"
}
```

Method	Endpoint	Authentication	Description
PUT	api/producers/:id/photo	Admin OR Producer	Updates the base64 encoded image for the producer.

#### Validations:

- Photo must be a valid base64 encoded image
- Photo must be less than 4MB

#### Example Request Json:

```
{
  "photoBase64":
  "
+8PD98fH/8mJl+fn/9ZWb8/PzWlww///6wWGbImAPgTEMImfDEUVLyADj5AChSIQW6gu10bE/JG2VnCZG
fo4R4d0sdQoBAHhPjhIB94v/wRoRKQWGRHgrhGSQJxCS+0pCZbEhAAOw=="
}
```

Method	Endpoint	Authentication	Description
GET	api/producers/:id/photo	None	Updates the base64 encoded image for the producer.

#### Example Response Json:

```
{
  "photoBase64":
  "
739/f+8PD98fH/8mJl+fn/9ZWb8/PzWlww///6wWGbImAPgTEMImfDEUVLyADj5AChSIQW6gu10bE/J
G2VnCZGfo4R4d0sdQoBAHhPjhIB94v/wRoRKQWGRHgrhGSQJxCS+0pCZbEhAAOw=="
}
```

Method	Endpoint	Authentication	Description
GET	api/producers/:id/ approvedBeats	None	<p>Returns all the beats for that producer that have been approved.</p> <p>An approved beat should have values in the “approvedDate” and “dateTimeToPost” fields.</p>

Method	Endpoint	Authentication	Description
GET	api/producers/:id/ submittedBeats	Admin Only	<p>Returns all the beats for that producer that have been submitted.</p> <p>This includes beats that have been approved and also not been approved</p>

## Section 2 - /api/beats/

Method	Endpoint	Authentication	Description
GET	api/beats/submitted	Admin Only	Returns all the beats that have been submitted and have NOT been approved

Method	Endpoint	Query Params	Authentication	Description
GET	api/beats/approved	<ul style="list-style-type: none"><li>• startDate</li><li>• endDate</li></ul>	Admin Only	Returns all the beats that have been approved to be posted between the given start date and end date.

Method	Endpoint	Query Params	Authentication	Description
GET	api/beats/posted	<ul style="list-style-type: none"><li>• startDate</li></ul>	None	Returns all the beats that have been approved to be posted between the given start date and the current date.

Method	Endpoint	Authentication	Description
GET	api/beats/pending	Admin Only	Returns all the beats that have been approved but the approval date has not yet happened.

Method	Endpoint	Authentication	Description
POST	api/beats	Admin Only Or Producer	Submits a new beat.  Validates the fields in the request body. If all fields pass validation, a unique ID is generated for the beat and a new Beat is added to the beats database.

#### Validations:

- File size for beat must be less than 10mb
- Producer can only upload 1 beat per day
- Beat name must be less than 64 characters
- Beat name can't contain extra text like [MUST LISTEN]

#### Example Request Json:

```
{
  "beatName": "Obey The Ghost",
  "beatURL": "http://beats.com/obey.mp3"
}
```

#### Example Response Json:

```
{
  "beatId": 152,
  "beatName": "Obey The Ghost",
  "beatURL": "/api/beats/152/stream",
  "submittedDateTime": "2016-04-23T18:25:43.511Z",
  "producerId": 32
}
```

Method	Endpoint	Authentication	Description
GET	api/beats/:id	Admin Only	Returns the fields associated with the given beat.

Method	Endpoint	Authentication	Description
DELETE	api/beats/:id	Admin Only	Deletes a given submitted beat



Method	Endpoint	Authentication	Description
PUT	api/beats/:id	Admin Only	<p>Modifies the fields on the given beat.</p> <p>Cannot change the beat itself.</p> <p>First should perform validations on the fields in the request body. If all fields pass validations, then the given beat is updated in the database.</p>

#### Validations:

- Beat name must be less than 64 characters
- Beat name can't contain extra text like [MUST LISTEN]

#### Example Request Json:

```
{
  "beatName": "Obey The Ghost",
  "beatURL": "http://beats.com/obey.mp3"
}
```

#### Example Response Json:

```
{
  "beatId": 152,
  "beatName": "Obey The Ghost",
  "beatURL": "/api/beats/152/stream",
  "submittedDateTime": "2016-04-23T18:25:43.511Z",
  "producerId": 32
}
```

Method	Endpoint	Authentication	Description
PUT	api/beats/:id/approve	Admin Only	<p>Approves the given beat.</p> <p>This will add the approval date and set the date/time to be posted.</p>

Method	Endpoint	Authentication	Description
PUT	api/beats/:id/unapprove	Admin Only	<p>Unapproves the given beat.</p> <p>This will remove the approval date and the date/time to be posted.</p>

## Section 3 – Database Requirements

### Producer:

- Producer Id - Int
- Producer Name - String
- Email - String
- Password Hash - String
- Twitter Name - String
- Soundcloud Name - String
- Producer Status - (None, Not Ready, Featured)
- Photo - String (Base64 Encoded)

### Beat:

- Beat Id - Int
- Beat Name - String
- Beat Url - String
- Approved - Boolean
- Producer Id - Int
- Submit Date - Date
- Approval Date - Date
- Post Date/Time - Date/Time