Progetto parte 3: Lambda Mazzoleni Gabriele – 1079514 Masinari Gabriele - 1079692

Funzione MyTedx: Get_Watch_Next_By_Idx

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Codice della Lambda Function e API

```
connect_to_db().then(() => {
 console.log('=> get all talks');
 talk.find({ " id": body.id }).select('Related videos - id')
     .skip((body.doc_per_page * body.page) - body.doc_per_page)
     .limit(body.doc per page)
     .then(talks => {
      if (!talks|| talks.lenght===0) {
          throw new Error('Talk not found');
       let relatedVideos = talks[0].Related_videos;
       relatedVideos = relatedVideos.map(video => {
         const { _id, ...rest } = video.toObject();
         return rest:
       callback(null, {
          statusCode: 200,
          headers: { 'Content-Type': 'application/json' },
          body: JSON.stringify(relatedVideos)
```

Questa Lambda function può essere testata con il seguente link API:

https://ee9l9w52bk.execute-api.us-east-1.amazonaws.com/default/Get_Watch_Next_by_Idx

Risultato della funzione: Get_Watch_Next_By_ldx

Parametro in INPUT:

```
1 {
2 |····"id":"526880"
3 }
```

OUTPUT testato tramite Postman:

```
[
    "related_video_ids": "109914",
    "related_video_title": "Whatever happened to the hole in the ozone layer?"
    "related_presentedBy": "Stephanie Honchell Smith"
},
{
    "related_video_ids": "76541",
    "related_video_title": "What's in the air you breathe?",
    "related_presentedBy": "Amy Hrdina and Jesse Kroll"
},
{
    "related_video_ids": "100294",
    "related_video_title": "Why plague doctors wore beaked masks",
    "related_presentedBy": "TED-Ed"
}
```

Lambda Function TedTok: Get_Talk_List_By_Tags

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Codice della funzione: Get_Talk_List_By_Tags

```
const connect to db = require('./db');
const talk = require('./Talk');
module.exports.get by tag = (event, context, callback) => {
   context.callbackWaitsForEmptyEventLoop = false;
    console.log('Received event:', JSON.stringify(event, null, 2));
    if (event.body) {
           body = JSON.parse(event.body);
        } catch (error) {
           console.error('Error parsing body:', error);
           callback(null, {
               statusCode: 400,
               headers: { 'Content-Type': 'text/plain' },
               body: 'Invalid JSON body
    const tags = body.tags;
    if (!tags || !Array.isArray(tags) || tags.length === 0) {
       callback(null, {
            statusCode: 400,
           body: 'Tags are null or they are not an array.'
        return:
    if (!body.doc_per_page) {
        body.doc per page = 10;
    if (!body.page) {
        body.page = 1;
```

```
const mongoose = require('mongoose');

const talk_schema = new mongoose.Schema({
    _id: String,
    speakers: String,
    title: String,
    url: String,
    duration: String,
    publishedat: Date,
    }, { collection: 'TedTok_data' });

module.exports = mongoose.model('talk', talk_schema);
```

Codice della funzione: Get_Talk_List_By_Tags

```
console.log('=> get_all talks');
       .sort({ publishedAt: -1 })
          console.log('Talks fetched before removing duplicates:', talks.length);
          const uniqueTalks = talks.reduce((acc, talk) => {
             if (lacc.some(t => t._id === talk._id)) {
                  acc.push(talk);
              return acc:
          console.log('Unique talks:', uniqueTalks.length);
           const paginatedTalks = uniqueTalks.slice(
              (body.doc_per_page * (body.page - 1)),
               (body.doc_per_page * body.page)
           callback(null, {
             statusCode: 200,
              body: JSON.stringify(paginatedTalks)
          console.error('Error fetching talks:', err);
             statusCode: err.statusCode || 500,
              headers: { 'Content-Type': 'text/plain' },
}).catch(err => {
   console.error('Error connecting to database:', err);
      statusCode: 500,
       headers: { 'Content-Type': 'text/plain' },
       body: 'Could not connect to the database.
```

Risultato della funzione: Get_Talk_List_By_Tags

Parametro in INPUT:

OUTPUT testato tramite Postman:

```
"slug": "rebecca_mcmackin_let_your_garden_grow_wild",
"speakers": "Rebecca McMackin",
"title": "Let your garden grow wild",
"url": "https://www.ted.com/talks/rebecca_mcmackin_let_your_garden_grow_wild",
"description": "Many gardeners work hard to maintain clean, tidy environments ... which is the exact opposite of what wildlife wants,
"publishedAt": "2024-03-27T14:46:24.000Z",
"tags": [
   "climate change",
   "environment".
   "animals",
   "nature".
   "biodiversity",
   "trees",
    "ecology",
    "plants",
    "gardening".
    "wildlife"
"Related_videos": [
        "related_video_ids": "125757",
       "related video title": "How poop turns into forests".
       "related_presentedBy": "Ludmila Rattis"
```

Criticità tecniche

Possibili evoluzioni

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Trello board

<u>GitHub</u>