

MyTEDx

Filippo Barbieri - 1054060 Francesco Satriani - 1051361 Andrea Uberti - 1052992

Lambda Function



La lambda function implementata ha lo scopo di ricevere in ingresso l'Id di un video e di cercare i relativi watch next. Per far ciò abbiamo creato la funzione Get_Watch_Next_by_Idx in AWS utilizzando il linguaggio Node.js.

- La funzione 'lookup' effettua un inner join sulla collezione tedz_wn, per ottenere le informazioni sui watch next.
- La funzione 'match' permette di selezionare il talk ricercato dall'utente.
- La funzione 'project' seleziona solo i campi desiderati di ogni record.

```
console.log('=> get all talks');
talk.aggregate([{
        "$lookup":{
          from: 'tedz wn',
          localField: 'watch next',
          foreignField: 'url',
            "$match":{
            "$project":{
                watch next:1
    .then(talks => {
            statusCode: 200,
            body: JSON.stringify(talks)
            headers: { 'Content-Type': 'text/plain' },
            body: 'Could not fetch the talks.'
```

Risultato

```
Richiesta via Postman "id": "b3072cd11f40eb57fd259555264476c6"
" id": "b3072cd11f40eb57fd259555264476c6",
                                                                                             Informazioni dei talk
                                                       id richiesto dall'utente
"watch next": [
                                                                                             watch next
       " id": "5be32167a2dcc08470287a6029b7e4c5",
        "main speaker": "Rabbi Lord Jonathan Sacks",
       "title": "How we can navigate the coronavirus pandemic with courage and hope",
       "details": "Rabbi Lord Jonathan Sacks offers thoughts on how we can navigate the coronavirus pandemic
           with courage, hope and empathy. With wisdom and clarity, he speaks on leadership, fear, death, hope
           and how we could use this moment to build a more just world. Watch for a special, impromptu prayer
           about halfway through the conversation. (This virtual conversation is part of the TED Connects
           series, hosted by head of TED Chris Anderson and head of curation Helen Walters. Recorded March 30,
           2020)",
       "posted": "Posted Mar 2020",
       "url": "https://www.ted.com/talks/
            rabbi lord jonathan sacks how we can navigate the coronavirus pandemic with courage and hope",
```

e ancora...

```
"tags": [
   "TED",
   "talks",
   "community",
   "social change",
   "humanity",
   "coronavirus",
   "pandemic".
   "politics",
   "global issues",
   "religion",
   "future".
   "TED Connects",
   "society",
   "family"
"watch next": [
   "https://www.ted.com/talks/
       rabbi lord jonathan sacks how we can face the future without fear together",
   "https://www.ted.com/talks/priya parker how to create meaningful connections while apart",
    "https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    "https://www.ted.com/talks/karen armstrong my wish the charter for compassion",
   "https://www.ted.com/talks/sharon brous it s time to reclaim religion",
   "https://www.ted.com/talks/alain de botton atheism 2 0",
    "https://www.ted.com/talks/bill gates how we must respond to the coronavirus pandemic"
```

...e così per tutti i watch next

```
" id": "cc20b7b4de317a6f4059bd6feb079334",
"main speaker": "Susan David",
"title": "How to be your best self in times of crisis",
"details": "\"Life's beauty is inseparable from its fragility,\" says psychologist Susan David. In a
   special virtual conversation, she shares wisdom on how to build resilience, courage and joy in the
   midst of the coronavirus pandemic. Responding to listeners' questions from across the globe, she
   offers ways to talk to your children about their emotions, keep focus during the crisis and help
   those working on the front lines. (This virtual conversation is part of the TED Connects series,
   hosted by head of TED Chris Anderson and current affairs curator Whitney Pennington Rodgers.
   Recorded March 23, 2020)",
"posted": "Posted Mar 2020",
"url": "https://www.ted.com/talks/susan david how to be your best self in times of crisis",
"tags": [
   "TED",
   "talks",
   "emotions",
   "TED Connects",
   "personal growth",
   "communication",
   "motivation",
   "psychology",
   "happiness",
   "humanity",
    "virus".
```

Utilizzo ed esperienza

```
"main_speaker": "Susan David",
"title": "How to be your best self in times of crisis",
"details": "\"Life's beauty is inseparable from its fragility,\" says psychologist Susan David. In a
    special virtual conversation, she shares wisdom on how to build resilience, courage and joy in the
    midst of the coronavirus pandemic. Responding to listeners' questions from across the globe, she
    offers ways to talk to your children about their emotions, keep focus during the crisis and help
    those working on the front lines. (This virtual conversation is part of the TED Connects series,
    hosted by head of TED Chris Anderson and current affairs curator Whitney Pennington Rodgers.
    Recorded March 23, 2020)",
"posted": "Posted Mar 2020",
"url": "https://www.ted.com/talks/susan_david_how_to_be_your_best_self
**Tisis",

**Tisis Tisis Tisis
```

La funzione verrà utilizzata alla fine di ogni video o quando richiesto dall'utente per mostrare i video correlati al talk selezionato.

In questo modo l'utente potrà selezionare l'url desiderato e vedere un prossimo video correlato al precedente.

Criticità Tecniche

Difficoltà nel programmare utilizzando mongoose per node.js e nel ricercare eventuali errori di runtime, nonché tempi di attesa lunghi per ottenere le invocazioni recenti della funzione e poter accedere al LogStream. Elevata ridondanza dei dati nella risposta.

Evoluzioni

Nelle prossime release dell'applicazione mostreremo a fianco degli url dei watch next solo informazioni limitate come ad esempio il titolo, il main speaker e la data di pubblicazione per ogni watch next. In questo modo facilitiamo l'utente a prendere una scelta su quale video guardare e a rendere l'interfaccia più pulita.

