HOMEWORK3

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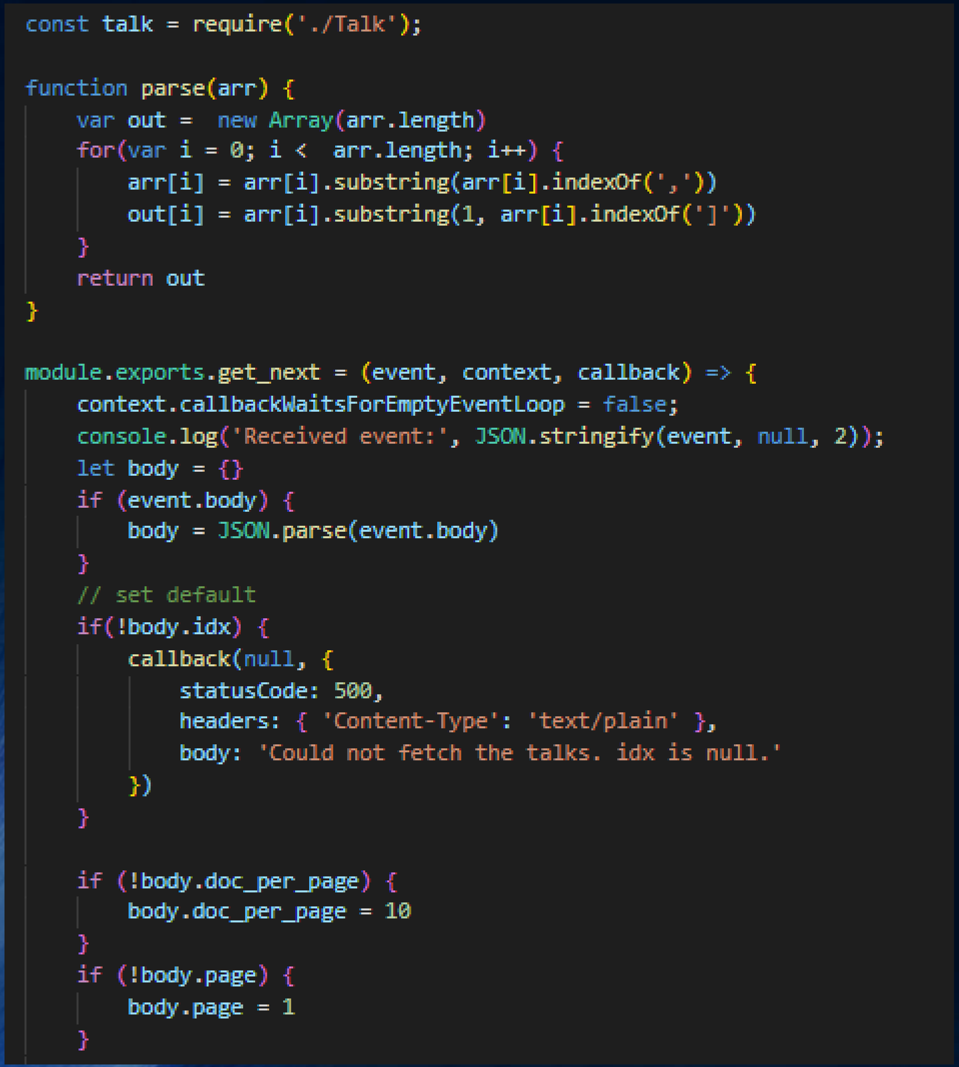
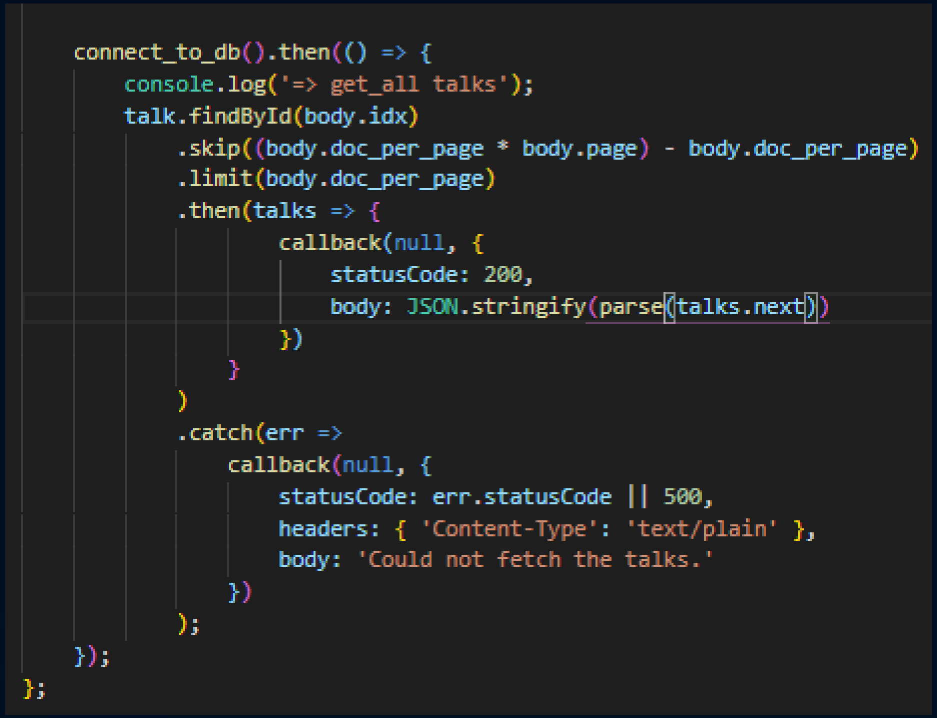
Lambda function



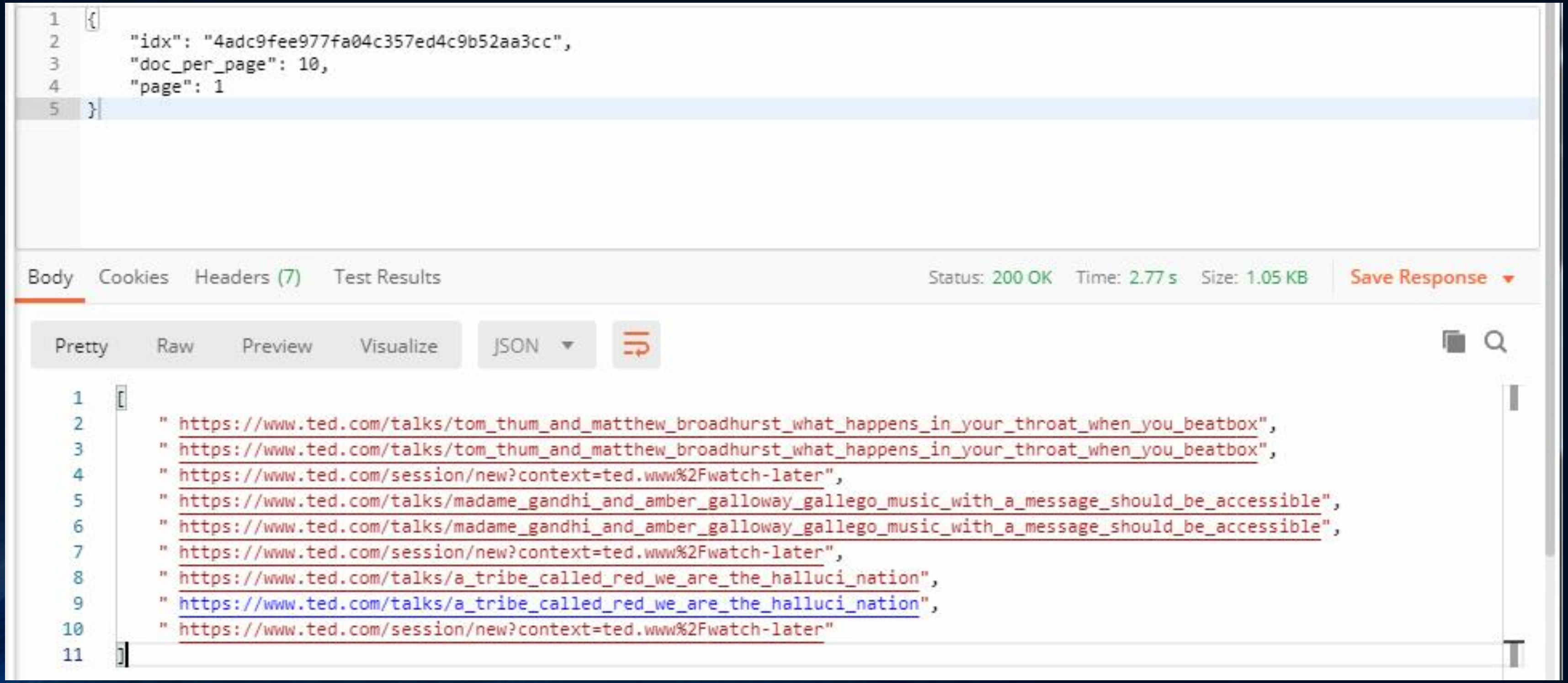
```javascript
const talk = require('./Talk');

function parse(arr) {
    var out =  new Array(arr.length)
    for(var i = 0; i <  arr.length; i++) {
        arr[i] = arr[i].substring(arr[i].indexOf(','))
        out[i] = arr[i].substring(1, arr[i].indexOf(']'))
    }
    return out
}

module.exports.get_next = (event, context, callback) => {
    context.callbackWaitsForEmptyEventLoop = false;
    console.log('Received event:', JSON.stringify(event, null, 2));
    let body = {}
    if (event.body) {
        body = JSON.parse(event.body)
    }
    // set default
    if(!body.idx) {
        callback(null, {
            statusCode: 500,
            headers: { 'Content-Type': 'text/plain' },
            body: 'Could not fetch the talks. idx is null.'
        })
    }

    if (!body.doc_per_page) {
        body.doc_per_page = 10
    }
    if (!body.page) {
        body.page = 1
    }
```



```javascript
    connect_to_db().then(() => {
        console.log('=> get_all talks');
        talk.findById(body.idx)
            .skip((body.doc_per_page * body.page) - body.doc_per_page)
            .limit(body.doc_per_page)
            .then(talks => {
                    callback(null, {
                        statusCode: 200,
                        body: JSON.stringify(parse(talks.next))
                    })
                }
            )
            .catch(err =>
                callback(null, {
                    statusCode: err.statusCode || 500,
                    headers: { 'Content-Type': 'text/plain' },
                    body: 'Could not fetch the talks.'
                })
            );
    });
};
```

Esperienza utente

L'utente ha la possibilità, una volta selezionato un video di visualizzare, tramite ricerca id, tutti i video raccomandati dal nostro servizio watchNext()



```
{
    "idx": "4adc9fee977fa04c357ed4c9b52aa3cc",
    "doc_per_page": 10,
    "page": 1
}
```

Body Cookies Headers (7) Test Results   Status: 200 OK Time: 2.77 s Size: 1.05 KB Save Response

Pretty Raw Preview Visualize JSON

```
[
    " https://www.ted.com/talks/tom_thum_and_matthew_broadhurst_what_happens_in_your_throat_when_you_beatbox",
    " https://www.ted.com/talks/tom_thum_and_matthew_broadhurst_what_happens_in_your_throat_when_you_beatbox",
    " https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    " https://www.ted.com/talks/madame_gandhi_and_amber_galloway_gallego_music_with_a_message_should_be_accessible",
    " https://www.ted.com/talks/madame_gandhi_and_amber_galloway_gallego_music_with_a_message_should_be_accessible",
    " https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    " https://www.ted.com/talks/a_tribe_called_red_we_are_the_halluci_nation",
    " https://www.ted.com/talks/a_tribe_called_red_we_are_the_halluci_nation",
    " https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
]
```

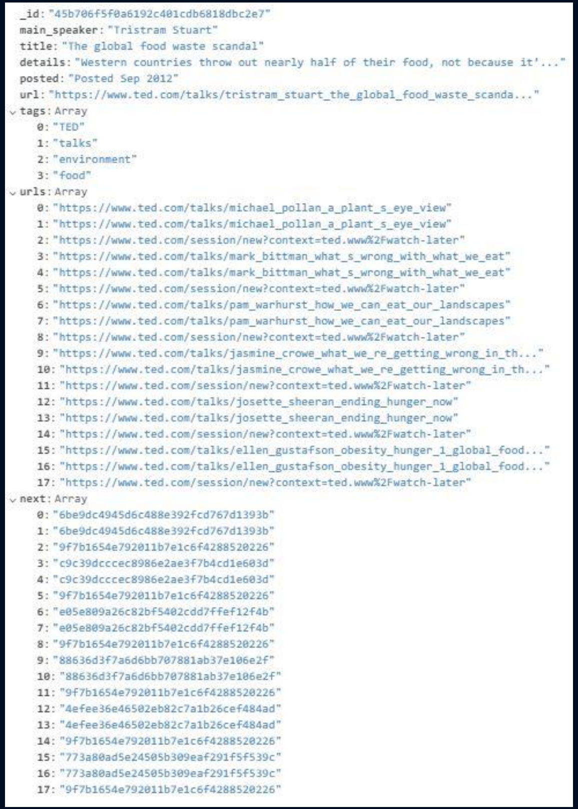
Criticità e possibili evoluzioni

Con il servizio attuale è possibile solamente effettuare la ricerca tramite id del video che si sta visualizzando.
Ci piacerebbe che fosse possibile visualizzare gli watchNext() anche in base a:

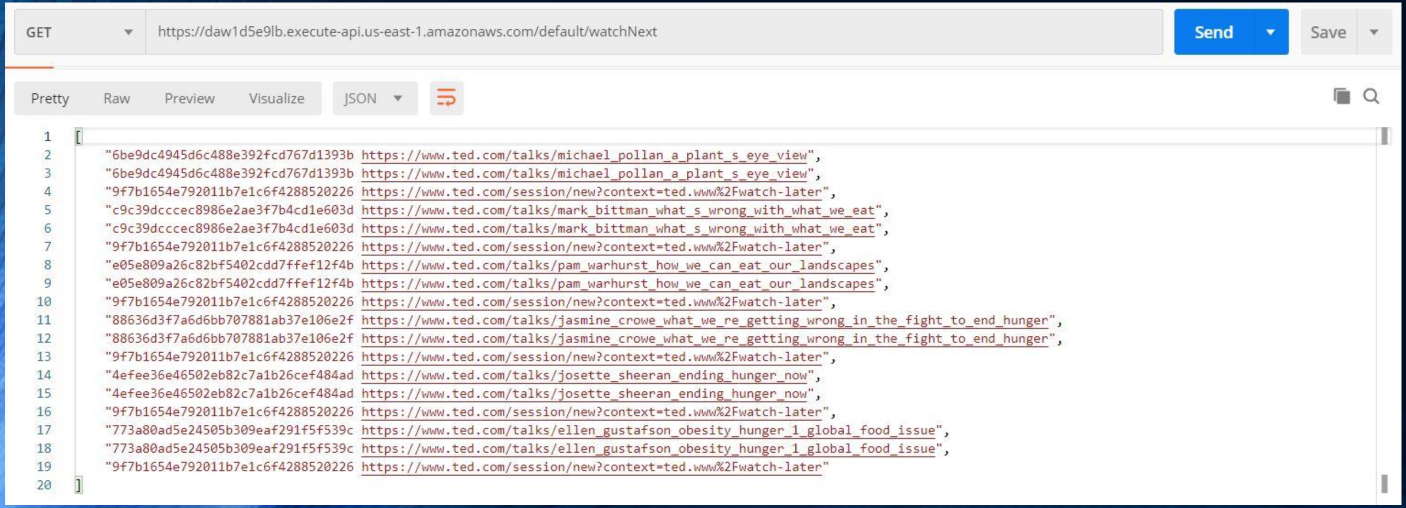
- ✓ Nome dell’autore del video, quindi visualizzare watchNext() solo di quell’autore
- ✓ Un tag specifico, dunque visualizzare gli watchNext() in base ad un argomento specifico

Chiarimenti

Il metodo adottato per risolvere al quesito posto riguarda il fatto di adattare la struttura su mongoDB (è sufficiente farlo solo una volta) di modo che ciascun video contenga già nei suoi campi tutte le informazioni degli watch next che si desidera conoscere (*più oneroso in termini di archiviazione*). Così facendo, e modificando la funzione parse di *handler.js*, si ottiene quanto riportato in figura

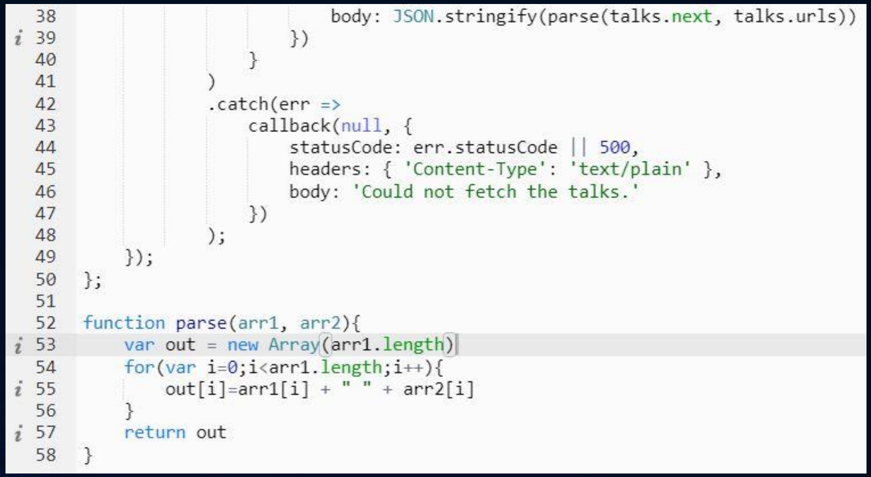


```
_id: "45b706f5f0a6192c401cdb6818dbc2e7"
main_speaker: "Tristram Stuart"
title: "The global food waste scandal"
details: "Western countries throw out nearly half of their food, not because it'..."
posted: "Posted Sep 2012"
url: "https://www.ted.com/talks/tristram_stuart_the_global_food_waste_scanda..."
tags: Array
   0: "TED"
   1: "talks"
   2: "environment"
   3: "food"
urls: Array
   0: "https://www.ted.com/talks/michael_pollan_a_plant_s_eye_view"
   1: "https://www.ted.com/talks/michael_pollan_a_plant_s_eye_view"
   2: "https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
   3: "https://www.ted.com/talks/mark_bittman_what_s_wrong_with_what_we_eat"
   4: "https://www.ted.com/talks/mark_bittman_what_s_wrong_with_what_we_eat"
   5: "https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
   6: "https://www.ted.com/talks/pam_warhurst_how_we_can_eat_our_landscapes"
   7: "https://www.ted.com/talks/pam_warhurst_how_we_can_eat_our_landscapes"
   8: "https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
   9: "https://www.ted.com/talks/jasmine_crowe_what_we_re_getting_wrong_in_th..."
   10: "https://www.ted.com/talks/jasmine_crowe_what_we_re_getting_wrong_in_th..."
   11: "https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
   12: "https://www.ted.com/talks/josette_sheeran_ending_hunger_now"
   13: "https://www.ted.com/talks/josette_sheeran_ending_hunger_now"
   14: "https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
   15: "https://www.ted.com/talks/ellen_gustafson_obesity_hunger_1_global_food..."
   16: "https://www.ted.com/talks/ellen_gustafson_obesity_hunger_1_global_food..."
   17: "https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
next: Array
   0: "6be9dc4945d6c488e392fcd767d1393b"
   1: "6be9dc4945d6c488e392fcd767d1393b"
   2: "9f7b1654e792011b7e1c6f4288520226"
   3: "c9c39dcccec8986e2ae3f7b4cd1e603d"
   4: "c9c39dcccec8986e2ae3f7b4cd1e603d"
   5: "9f7b1654e792011b7e1c6f4288520226"
   6: "e05e809a26c82bf5402cdd7ffef12f4b"
   7: "e05e809a26c82bf5402cdd7ffef12f4b"
   8: "9f7b1654e792011b7e1c6f4288520226"
   9: "88636d3f7a6d6bb707881ab37e106e2f"
   10: "88636d3f7a6d6bb707881ab37e106e2f"
   11: "9f7b1654e792011b7e1c6f4288520226"
   12: "4efee36e46502eb82c7a1b26cef484ad"
   13: "4efee36e46502eb82c7a1b26cef484ad"
   14: "9f7b1654e792011b7e1c6f4288520226"
   15: "773a80ad5e24505b309eaf291f5f539c"
   16: "773a80ad5e24505b309eaf291f5f539c"
   17: "9f7b1654e792011b7e1c6f4288520226"
```



```
GET https://daw1d5e9lb.execute-api.us-east-1.amazonaws.com/default/watchNext
```

```
[
    "6be9dc4945d6c488e392fcd767d1393b https://www.ted.com/talks/michael_pollan_a_plant_s_eye_view",
    "6be9dc4945d6c488e392fcd767d1393b https://www.ted.com/talks/michael_pollan_a_plant_s_eye_view",
    "9f7b1654e792011b7e1c6f4288520226 https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    "c9c39dcccec8986e2ae3f7b4cd1e603d https://www.ted.com/talks/mark_bittman_what_s_wrong_with_what_we_eat",
    "c9c39dcccec8986e2ae3f7b4cd1e603d https://www.ted.com/talks/mark_bittman_what_s_wrong_with_what_we_eat",
    "9f7b1654e792011b7e1c6f4288520226 https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    "e05e809a26c82bf5402cdd7ffef12f4b https://www.ted.com/talks/pam_warhurst_how_we_can_eat_our_landscapes",
    "e05e809a26c82bf5402cdd7ffef12f4b https://www.ted.com/talks/pam_warhurst_how_we_can_eat_our_landscapes",
    "9f7b1654e792011b7e1c6f4288520226 https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    "88636d3f7a6d6bb707881ab37e106e2f https://www.ted.com/talks/jasmine_crowe_what_we_re_getting_wrong_in_the_fight_to_end_hunger",
    "88636d3f7a6d6bb707881ab37e106e2f https://www.ted.com/talks/jasmine_crowe_what_we_re_getting_wrong_in_the_fight_to_end_hunger",
    "9f7b1654e792011b7e1c6f4288520226 https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    "4efee36e46502eb82c7a1b26cef484ad https://www.ted.com/talks/josette_sheeran_ending_hunger_now",
    "4efee36e46502eb82c7a1b26cef484ad https://www.ted.com/talks/josette_sheeran_ending_hunger_now",
    "9f7b1654e792011b7e1c6f4288520226 https://www.ted.com/session/new?context=ted.www%2Fwatch-later",
    "773a80ad5e24505b309eaf291f5f539c https://www.ted.com/talks/ellen_gustafson_obesity_hunger_1_global_food_issue",
    "773a80ad5e24505b309eaf291f5f539c https://www.ted.com/talks/ellen_gustafson_obesity_hunger_1_global_food_issue",
    "9f7b1654e792011b7e1c6f4288520226 https://www.ted.com/session/new?context=ted.www%2Fwatch-later"
]
```



```
                    body: JSON.stringify(parse(talks.next, talks.urls))
                })
            }
        )
        .catch(err =>
            callback(null, {
                statusCode: err.statusCode || 500,
                headers: { 'Content-Type': 'text/plain' },
                body: 'Could not fetch the talks.'
            })
        );
    });
};

function parse(arr1, arr2){
    var out = new Array(arr1.length)
    for(var i=0;i<arr1.length;i++){
        out[i]=arr1[i] + " " + arr2[i]
    }
    return out
}
```