CPSC 1520 Assignment 2: Ted Talks Search Tool.

Introduction

This assignment focuses on your knowledge of arrays, loops, objects and the fetch api. This will test up to and including fetch fundamentals.

Please refer back to examples that we've done in class and the notes to be able solve this.

Overview

For this assignment you are required to create a fundamental search engine for recent ted talks.

You'll need to fetch ted talks from your local server (in the data directory) and populate rows in table.

Once in the table you'll also need to give the user the ability to search talks and also allow them to put a minimum number of views (so that they can see what talks are the most popular).

Below shows some screen shots of the application design that shows the functionality that you'll need to replicate in this assignment.

Please refer to the "**Required Tasks**" section, and actually read the "**Marking Key**" section.
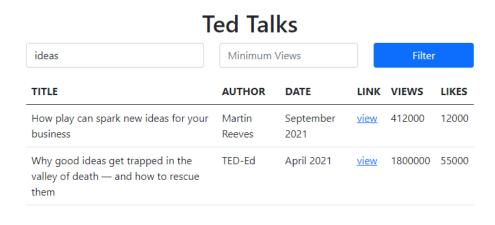
Sample Functionality Example A

Ted talks fetched successfully.

Sample Functionality Example B

Ted talks filtered by searching for "ideas" in the search input.

Ted Talks

TITLE	AUTHOR	DATE	LINK	VIEWS	LIKES
How play can spark new ideas for your business	Martin Reeves	September 2021	view	412000	12000
Why good ideas get trapped in the valley of death — and how to rescue them	TED-Ed	April 2021	view	1800000	55000

Search field: ideas | Minimum Views | Filter

Sample Functionality Example C

Ted Talks filtered by a minimum views of "10000000"

Ted Talks

Search field: search | 10000000 | Filter

TITLE	AUTHOR	DATE	LINK	VIEWS	LIKES
What causes dandruff, and how do you get rid of it?	Thomas L. Dawson	February 2021	view	10000000	315000

Sample Functionality Example D

Ted Talks filtered with a search result of "ideas" and a minimum views of "1200000".

Ted Talks

Search field: ideas | 1200000 | Filter

TITLE	AUTHOR	DATE	LINK	VIEWS	LIKES
Why good ideas get trapped in the valley of death — and how to rescue them	TED-Ed	April 2021	view	1800000	55000

Required Tasks

- Ted Talks Fetched and Rendered Successfully (hint: do this first)
  - Render Ted talks function created that will take one argument that will be tedTalks
    - Loop through tedTalks using the "map" loop function.
    - Append table rows to the table body with the values of each talk.
  - Create a get Ted talks function that will fetch the ted talks from our local server.

- Using fetch get the ted_talks.json file in the data folder using only the path (as you'll be fetching from the same server).
    - Set the talks fetched to the variable "allTedTalks" given.
    - Ted talks rendered to the table once fetched.
- Ted Talks Successfully Filtered by the search query and the minimum views
    - Add an event listener and handler to the form.
    - Get the search query and minimum views values from the inputs the same we've been doing it throughout the course.
    - Create a function that will filter the talks (hint: you should use filter) you should pass in the subset of talks and the search query.
        - Note: your search should not be case sensitive, it should not matter if it's upper or lower case.
        - This should return the new subset of talks.
    - Create a function that will filter minimum views (hint: you should use filter) you should pass in a subset of talks and the minimum views.
        - Note: this function should only keep talks that have a count that is greater than the minimum views.
        - This should return the new subset of talks.
    - The rows of the table should be rendered again with the subset of talks
- Bonus (this should be hard)
    - If you click on the on the views and likes heading it should sort from highest to lowest.
    - If you click on the on the title and author it should sort them alphabetically.
    - Note: I made this bonus difficult for fun, you'll need to do some research. Only try to attempt this if you know you completed and understand the rest of the assignment thoroughly.
- The code style will be specified by your instructor.

Marking key

Tasks	Grade	Marks	Total
Fetch and rendering. • Fetched data successfully. • Talks rendered successfully • Map Used for looping over ted talks. • allTedTalks variable as the result of the fetch call back.		5 3 1 1	
Loops and Filtering • Successfully added event listener and prevented the form from submitting. • Ted talks search query filters (not case sensitive) out talks correctly. • Ted talks minimum Views filters out talks that have less than the value specified by the user. • The subset of talks from the filtering functions are rendered correctly.		1 3 3 1 3	

• The search will only apply search if it's not empty and will only apply the minimum views filter if it's not empty			
Bonus • Sort columns ascending if the columns are clicked		3	
Code Formatting and Style		-3	

Marking Rubric

Marks	5 Marks Criteria
5	Task was completed with the highest of proficiency adhering to best practices and followed subject matter guidelines all tasks were completed to a professional standard.
4	Task was completed well some minor mistakes. Well above average work shows good understanding of the task and high degree of competence
3	Satisfactory work some features missing or incorrectly implemented. Show a moderate level of understanding in the task with room for improvement.
2	Below average work. Task was poorly complete. Show understanding of the task and the requirements to implement but implementation was poorly executed.
1	Some of the task was completed. Showed a lack of understanding in the subject matter and very poorly executed
0	Not completed.

Marks	3 Marks Criteria
3	Proficient shows a high degree of competence in completing task.
2	Capable above average degree of competence in completing task
1	Satisfactory shows a satisfactory degree of competence in completing task.
0	Shows a limited degree of competence in completing task.

Marks	1 Marks Criteria
1	Task Completed satisfactorily
0	Task was not executed.