TED

[Problem Statement]

Write a pseudo full stack web application TED. The web app should be the aggregator for TED talks. You are not supposed to implement a video streaming, just redirect them to the link.

Weightage:

Minimum Requirement: 25%

Advanced: 40%

Write up: 35%

[Minimum Requirement]

-- Use of the CSV dump provided.

Data params: ['description', 'event', 'main\_speaker', 'name', 'published\_date', 'ratings', 'related\_talks', 'speaker\_occupation', 'tags', 'title', 'url', 'views']

-- Implement a backend and a frontend for the web app.

-- The communication between backend and frontend should be in JSON via REST calls.

-- The UI can be very minimal with the major emphasis on the backend.

[Advanced]

-- On first page load, show all the tags available for user selection. And populate list on home page based on the tags selected.

-- Implement pagination on the backend.

-- Provide a Multi-Search functionality to search talks by ‘name’, ‘speaker\_occupation’, ‘event’, ‘title’, in combination and individually as well.

-- Implement filter based on tags and event.

-- Sort functionality based on published\_date and views(Most number of views).

[Write Up]

-- If you had to scale this solution from 22k records to 5 million records, please explain what part of the system needs to change to support this scalability factor? Please attach a short writeup of your solution as a document along with the other deliverables.

[Guide]

-- TED CSV Dump: <http://hck.re/MCVQIq>

Tech Stack:

Use any language of your choice

[Deliverables]

-- Perform extensive tests, manual and automatic, and share an evaluation report for all the cases performed.

-- Provided all the code with test frameworks.

-- Deployment instructions, readme.md files.

-- Zip your complete project and upload.

-- Word/ text document of the write up.