

Moocme

By: Dor Rondel

Project Description:

For a myriad of reasons, many individuals curious about the abundance of knowledge universities have to offer, cannot allow themselves to claim any of it. A relatively recent phenomenon, in 2011, Stanford published three of their courses online for free, and set the wave for a new means of sharing higher education. Today there are hundreds of university courses and thousands of independently taught courses, or MOOCs, offered on a multitude of platforms, such as Udacity, Coursera, Udemy and EDx amongst others. This is where MOOCme comes in. In its essence, MOOCme is a website hosting a MOOC search engine. This search engine will supply MOOC students all over the world the leisure of searching for desired courses, on multiple platforms, from a single site.

System Requirements:

Functional Requirements:

Identifier	Priority	Requirement
REQ1	5	Site must be able to retrieve all MOOCs from at least the top MOOC platforms mentioned in the project description.
REQ2	5	Site must return the current MOOCs corresponding to the search terms.
REQ3	3	Site must be able to filter MOOCs from the different platforms.
REQ4	3	Site must be able to filter free and paid content.
REQ5	4	MOOCs must link to their source.
REQ6	5	Site must be accessible to everyone and remotely hostable.

Non-functional Requirements:

Identifier	Priority	Requirement
nREQ1	3	Site must be have a nice UI/UX.
nREQ2	2	Site must be hostable on some IaaS.
nREQ3	2	Site will be responsive.
nREQ4	4	Code will be stored on github.
nREQ5	4	Searches won't take longer than 20 seconds.
nREQ6	3	Site can handle heavy user load.

MOOCme API:

Title: Home visit

URL: /

Method: GET

Returns: HTML document

Title: MOOC search

URL: /

Method: POST

Data Params: [String] search, [Boolean] free

Returns: 201 || 500

Title: Search submission

URL: /search?=<encoded-string>

Method: GET

Returns: JSON

Title: Search submission

URL: /course/:id

Method: GET

Returns: JSON

Title: About page

URL: /about

Method: GET

Returns: HTML document

Sequence Diagram:

