**Question**

**1**

Max. Marks 100.00

**Simility Movies Listing**

**[Problem Statement]**

Develop a pseudo Front End Application which would let the users help list and browse top movies details conveniently.

**[Minimum Requirement]**

— Use of Web API to fetch movies details.

Utilise Response Parameters:

[ movie\_title, director\_name, actor\_1\_name, actor\_2\_name, genres, language, country, content\_rating, budget, title\_year, plot\_keywords, movie\_imdb\_link ].

Implement functionality to list movies details in a web page.

— Visually interactive responsive design listing all the movies details.

— Submit Screenshot, Source code & Instructions.

**[Plus Point]**

— A feature to Search by name. Store the API response in local storage and make queries to that.

— Implement Sort feature (to filter result through genres, budget). Again you should be searching local storage for this and not making fresh API calls.

— href url parameter. All headings should be links which should open in new window. (Should open in new window | target="\_blank")

**[Extra Work]**

— Implement feature to sort movies based on title\_year.(Sort based on old-to-new and new-to-old based on time).

— Create beautiful graphs/charts on the UI representing movies and their budgets and another with their year of release. You should create more graphs/charts illustrating different analysis. You are expected to use D3 JS or other similar libraries.

— Add autocomplete feature to Search movies details conveniently . Search local storage where you have stored the API Response. IndexedDB is preferred as local storage.

— Custom elegant design, fonts and icons to make web app more user-friendly.

— You may add portfolio activity comprising awesome work you have done on web application(s).

— Use your imagination and add features which would make things easier for end users.

**[Deliverables]**

— You are expected to code in frameworks like ReactJS and AngularJS.

— You must store API response in local storage and make queries to it. IndexedDB is preferred.

— We are expecting Generic and Robust code in ReactJS or AngularJS.

— We are expecting well indented, commented and documented code.

— Zip all your **Source Code, Deployment Instructions, Screenshots** and upload.

**[Guide]**

— **Movies API**: [API Link](http://starlord.hackerearth.com/simility/movieslisting)

— **Ideal Frontend Stack** :

* ReactJS/AngularJS, HTML, CSS.
* D3 JS and other similar libraries.
* IndexedDB, History API

— HTML5 Local Storage: http://html5demos.com/storage

— IndexedDB API :

https://developer.mozilla.org/en/docs/Web/API/IndexedDB\_API https://www.tutorialspoint.com/html5/html5\_indexeddb.htm

— For icons and subtle texture :

http://glyphsearch.com/

http://subtlepatterns.com/thumbnail-view/

http://codebeautify.org/jsonviewer

http://www.flaticon.com/categories

**[Wireframe MVP / Reference Structure]**

Mockup image with instructions

**Page 1 — Home page comprising list of movies details.**

**Note**: Mockup design is just a reference made available to kickstart the design process, you are free to come up with your own design, we always admire creativity.

— API Specs shall be accessible once event starts.

**Structure / Data Parameters**:

movie\_title : Title of the movie.

director\_name : Director’s name.

actor\_1\_name : Lead actor’s name.

actor\_2\_name : Second lead’s name.

Genres : Genre of the movie.

Language : Spoken language in the movie.

Country : Country to which the movie belongs, like USA, India.

Content\_rating : Content Rating of the movie, like PG-13, R-rated etc.

Budget : Budget of the movie in USD.

Title\_year : Year in which movie released.

Plot\_keywords : Keywords of the plot.

Movie\_imdb\_link : Movie’s IMDB Link.

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