Please solve all of the following problem statements and provide a Github repo link with the solutions:

1. Write a parser function that takes a string in specific pattern as a parameter and outputs a JSON.
   Below are some sample input and output patterns the parser should handle.
   The parser should return the undefined or null, if the string doesn't conform to the pattern.

Input samples	**Output**
`"interview_attendance:P,interview_date:2019-04-15--to--2019-04-15,status:CAP"`	`{ "and": { "interview.date": { "between": ["2019-04-15T00:00:00", "2019-04-15T23:59:59"] }, "interview.attendance": { "eq": "P" }, "status" : { "eq": "CAP" } } }`
`"status:all,applied_date:2019-04-15--to--2019-04-15,screen_status:SR|NS"`	`{ "and": { "screen.status": {`

	"inq": ["SR", "NS"]
	},
	"applied.date": {
	"between": [
	"2019-04-15T00:00:00",
	"2019-04-15T23:59:59"
	]
	}
	}
	}

"location:mumbai|delhi|pune,list_type:S,min_education:1"	{
	"and": {
	"location": {
	"inq": [
	"mumbai",
	"delhi",
	"pune"
	]
	},
	"min.education": {
	"eq": 1
	},
	"list.type" : {
	"eq": "S"
	}
	}
	}

2. Using Graphql (**https://countries.trevorblades.com/**) to fetch data (query "continents" for listing the continents and "continent" for details of one continent), implement the following tasks:

- Create a mobile optimized website with following two screens :
    1. Interface showing continents List
    2. continent details interface (which is shown when user taps on any job list item in the list interface in [1])

- For the continents website created, design a request cancellation mechanism such that when an item is taped, the xhr request generated should be cancelled if the user taps another item on the list before the first request is fulfilled. *(Use network throttling, found in most major browsers, to test this effect.)*

- Make sure your code is well documented and extensible.
- Bonus point if you can figure out how make it a **PWA** and achieve good scores in **lighthouse report**. Please feel free to use any library of your choice, provided you use **React or Angular 2+**.
- You can use Apollo client or any other of your liking to make graphQl queries.
- You can use create-react-app or any other library of your liking to bootstrap your react project.