

Simple logic

Please create solutions from these cases:

1. Check the string is palindrome or not

Input:
isPalindrome('abcba')

Result:
true

2. Find prime number by range

Input:
findPrimeByRange(11, 40)

Result:
[11, 13, 17, 19, 23, 29, 31, 37]

3. Grouping array group into separate sub array group

Input:
const arr = ['a', 'a', 'a', 'b', 'c', 'c', 'b', 'b', 'b', 'd', 'd', 'e', 'e', 'e']
group(arr)

Result:
[['a', 'a', 'a'], ['b'], ['c', 'c'], ['b', 'b', 'b'], ['d', 'd'], ['e', 'e', 'e']]

4. Count same element in an array with format

Input:
const arr = ['a', 'a', 'a', 'b', 'c', 'c', 'b', 'b', 'b', 'd', 'd', 'e', 'e', 'e']

Result:
[{3, 'a'}, {1, 'b'}, {2, 'c'}, {3, 'b'}, {2, 'd'}, {3, 'e'}]

Simple web-apps

Backend

- Create API Using Golang Language
- API Register body has username, email, password (Hashed)
- API Login using System Auth token, for the method its up to you, example (bearer token, basic auth, etc)
- API CreateFinancing body has name, count, sub → dummy data
{
 "name": "Invoice Financing",

```

    "count": 35,
    "sub": null,
  },
  {
    "name": "OSF Financing",
    "count": 25,
    "sub": null,
  },
  {
    "name": "SBN",
    "count": 10,
    "sub": null,
  },
  {
    "name": "Reksadana",
    "count": 20,
    "sub": null,
  },
},
{
  "name": "Conventional Invoice",
  "count": 20,
  "sub": "invoice"
},
{
  "name": "Productive Invoice",
  "count": 15,
  "sub": "invoice"
}
}

{
  "name": "Conventional OSF",
  "count": 15,
  "sub": "osf"
},
{
  "name": "Productive OSF",
  "count": 10,
  "sub": "osf"
}
}

```

- API CreateConventionalOsf body has name, amount, tenor, grade, rate
- API CreateConventionalInvoice body has name, amount, tenor, grade, rate
- API CreateProductiveInvoice body has name, amount, grade, rate
- example

```

{
  "name": "PT YJK",
  "amount": 10000000,
  "tenor": 120,
  "grade": "B",
  "rate": 16
},

```

```

{

```

```

    "name": "PT KKY",
    "amount": 40000000,
    "tenor": 120,
    "grade": "B+",
    "rate": 14
  }

```

- API Create Reksadana body has name, amount, return
- example

```

{
  "name": "INB",
  "amount": 200000000,
  "return": -1
},
{
  "name": "PT TELMOM",
  "amount": 100000000,
  "return": 1
},

```

- API Create sbn body has name, amount, tenor, rate, type
- example

```

{
  "name": "SBR XXX",
  "amount": 10000000,
  "tenor": 120,
  "rate": 7,
  "type": "SBR"
},
{
  "name": "SBR YYY",
  "amount": 20000000,
  "tenor": 120,
  "rate": 8,
  "type": "SBR"
},

```

- All create API must have API get
- For Database its up to you
- All this system installed on Container Docker

Frontend

Please create a web application using component-based JS Framework, (we recommend Vue.js) using provided JSON. Also please create app as close as possible with provided illustration.

App Requirement:

- Clickable menu if the item still has sub-directory in it
- Create login menu and register menu (design up to you)
- Design homepage like the ingredients page, page1, page2
- All data get from API you already build on Backend Test
- If the items don't have sub-directory anymore, create filter-select with requirements:
 - Loan page (Invoice & OSF): create 1 select-filter, that filter based on object's grade (A, B+, B)
 - SBN: create 1 select-filter that filter based on object's type (SBR, ST)
 - Reksadana: create 1 select-filter, based on object's rate, positive (≥ 0), negative (< 0)
 - Remember every filter should have "filter-none" or you can call it "All" options, which means filter is not applied
- If the items don't have sub-directory anymore, create search that will filter items based on object's name
- All filters must be working together, which means if user use select-filter and search, the data will be filtered by 'select-filter' AND 'search'
- Infinite scroll (show 5 items per scroll), with initial showing 5 data (do not forget to add some animation when page still loading new items)

Code Requirement:

- Please do consistent coding convention, like following Airbnb ESLint config for example (<https://www.npmjs.com/package/eslint-config-airbnb>)
- Good folder and file management (including naming)
- You can use bootstrap for grid management, but we encourage you create your custom CSS rules for the other things
- Good componentization will be assessed
- You may use 3rd party plugin, but remember, good hand-crafted JavaScript code will always have special place for assessment

Submission:

Push your source code in git repository and then send us the link. Push into gitlab (mandatory).

Please add our gitlab account (reza.dompetskilat) into `developer` in your repository

- Try documenting your code, don't need to be that fancy, just simple and direct documentation is enough
- Please give us the README file. How to run the program. Good README file will be assessed
- Commit history to git will be assessed. Please do commit your code part by part

Hint:

- Forget that old one-page coding, see every section as a component to be made
- Do not hesitate to ask, you can reach me on reza.basuki@dompetkilat.id
- For icons you can refer to this link <https://fontawesome.com/cheatsheet>