Ideas

Plots

1- Bar chart

2- Line chart

3- Scatter plot

4- Pie chart

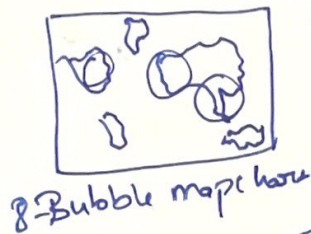5- Network map

6- Marker map

7- Colour map

8- Bubble map chart

Categorize

$ 1, 4 $ - for Salary Visualization
$ 2, 3 $ - for trends

Can combine 1, 2, 3 to Visualize the complete graph using number

5 - Used to Point the jobs
6 - for Salary overview
7, 8 - To display Covid 19 Cases

Filter

→ To Visualize the average Salary of jobs in a Country, bar chart(1) looks better and Simple.

→ Line charts shows the trends of salaries for a Particular jobs comparing with countries.

→ Maps display the Covid Cases in each Country & Network map can used to point Out the jobs & salaries and also the covid Cases using Colour map

Combine & Refine

1, 2, 3 to be combine for representing completely.
→ This will be based on whether the x-axis years (or) jobs (or) country

Question

→ Can Users able to filter the country or/year show data?

→ Does the map enable the users to pop up the toolTip

→ How the mode of work was affected. with covid 19?

→ Can users see the Overview report of each country?

Layout
Scope & Salaries of IT roles
Choose the Country

[options ▼]

Choose the year

[options ▼]

Salary

Job1 Job2 Job3 ---
Jobs

focus

Salary
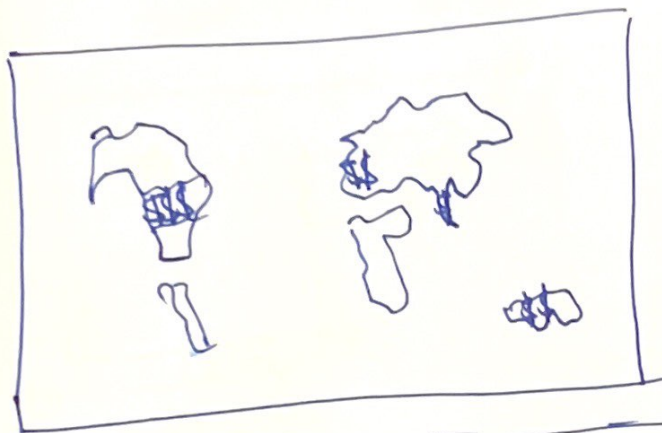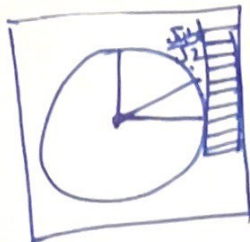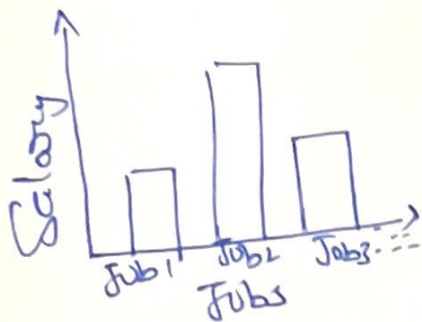
Job1 Job2 Job3 --
Jobs

→ Y-axis representing the Salaries (Avg)

→ X-axis representing the job role

→ Each pie representing the Salary of a job role

→ In world map, the $ symbols are used as markers to give overview of Salaries

Title :- FIT 5147 Data
Visualization Project
Author :- Tirumalesh Nag-
othi
Date :- 07-10-2022
Sheet number :- 2

Operation
→ The user after running this page needs to Select the country and the year.
→ After selecting, there will be two graphs representing as follows (bar chart, pie chart)
→ The world map is used to represent the Salary overview and Covid cases study is viewed as a tooltip

Discussion

Pros
→ Since it is initial, the first 2 graphs gives clear idea and simple.
→ Choosing the countries and years as options

Cons :-
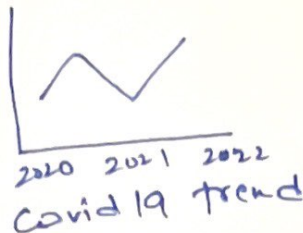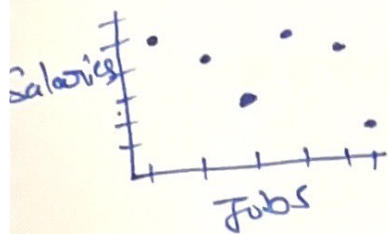The data map doesn't give much information about the overview of jobs

Layout

Scope and Salaries of IT roles from 2020 to 2022
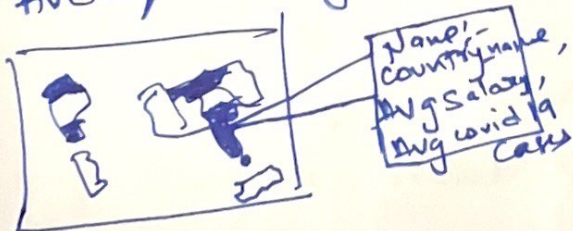
Choose the Country

| Options ▼ |

Choose the year

● 2020   ● 2021   ● 2022

Salaries / Jobs (scatter plot)

2020 2021 2022
Covid 19 trend

Colour map

Focus / Zoom

When the Country on the map is selected there will be a tooltip appeared that consists of info of that country such as country name, Average covid cases, Average Salary.

Name:-
Country name,
Avg Salary,
Avg covid 19 cases

Operations

→ Choosing the country name using select options and the year using radio buttons.

→ Then the salaries are displayed for each job

→ Also the covid 19 trend.

→ The covid 19 cases are represented on colour data map with the names on countries. The legend shows the range of number of covid 19 cases.

Discussion

Pros

→ Selecting the radio buttons for years

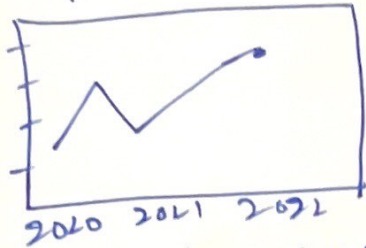→ Tooltip for countries in colour data map and representation of covid 19 cases.

Cons

→ Displaying of covid 19 cases for every selection of year.

Layout

Scope & Salaries of IT roles during 2020 to 2022

Select the country

[options ▼]

2020 2021 2022

Select the year

• 2020   • 2021   • 2022

[Go]

Salaries

Jobs

overview of jobs and Salaries Job / salaries remote ratio etc...

Colour map

Focus | Zoom

When the country is Selected, there will be a overview displayed below the map that shows jobs, Salaries, remote ratio

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Title :- FIT5147 Data Visualisation project

Author :- Tirumalesh Nagothi

Date :- 07-10-2022

Sheet number :- 4

Operations

-> User selects the country, then the trend of covid 19 appears.

-> Selecting the year using radio buttons

-> After "Go" button is clicked, the jobs and Salaries (avg) are plotted using bar chart

-> There will be interactive option to click on the map to show the information in table below.

Pros

-> Displaying Covid 19 covid cases for each country.

-> Adding button

-> Adding overview of information.

Cons

-> Looks Confusing.

Layout

Scope and Salaries of Various IT roles during(from) ~~(past)~~ 2020 to 2022

Main

Select the year
- 2020 o 2021 o 2022

Select the Country

[Options ▼]

[Go]

Employee

County name: - - -

Jobs

---

focus! -   [map] → [Avg salary / Avg count]

-> There will be colour map along with the markers ($) on the countries. A tooltip will be appeared when a country is clicked

-> Below, there are options to select country, after clicking on "Go" the bar chart will be created on right tab.

Operations

-> Selecting the year using radio button.
(2020 - default)

-> Displays the colour map which represents covid 19 cases and $ markers to show the salary overview.

-> Then selecting a country and click "Go"

-> There will be a message printed to switch to other tab 'Employee'

-> In that employee tab, bar graph is displayed representing Jobs and Salaries

Details

Dataset:- combination of IT salaries and covid19 cases.

Dependencies:- Rshiny

Estimates:-

Cost - Nil (0)

-> Start:- 23-10-2022

-> End:- 29-10-2022