

Tasks in Developing Data Products

cwl

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Objective

This is a peer assessed assignment in the Coursera Developing Data Products by Johns Hopkins University). This aimed to create a Shiny application and deploy it on Rstudio's servers.

https://cwl286.shinyapps.io/PA3_shiny/

This Shiny application was trying to visualize world's demographics data from the World Bank. It visualized 5 dataset, which were collected on 04/06/2021. It was created by Shiny and Plotly library in R language to provide basic interactive features.

Features:

1. Input widget: sliderbar, checkbox, selectizeInput, action buttons.
2. Operation on the ui input in server.
 - User can filter countries by Region, or Income groups, or both.
 - User can limit the years of data to display.
 - User can compare data among countries.
 - Our server will filter the relevant data of the corresponding countries based on the input by users.
3. Some reactive output displayed as a result of server calculations
 - Thanks to the Plotly library, users can interact with the charts by zooming, brushing data, and comparing data on hover.

Dataset

- Birth rate, crude (per 1,000 people)
- Death rate, crude (per 1,000 people)
- Fertility rate, total (births per woman)
- Life expectancy at birth, total (years)
- Life expectancy at birth, male (years)
- Life expectancy at birth, female(years)

Regions classified in data:

By default, countries all regions are shown.

1. "East Asia & Pacific"

2. “Europe & Central Asia”
3. “Latin America & Caribbean”
4. “Middle East & North Africa”
5. “North America”
6. “South Asia”
7. “Sub-Saharan Africa”

Income Groups classified in data:

By default, all income groups are checked.

1. “High income”
2. “Low income”
3. “Lower middle income”
4. “Upper middle income”

URL

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